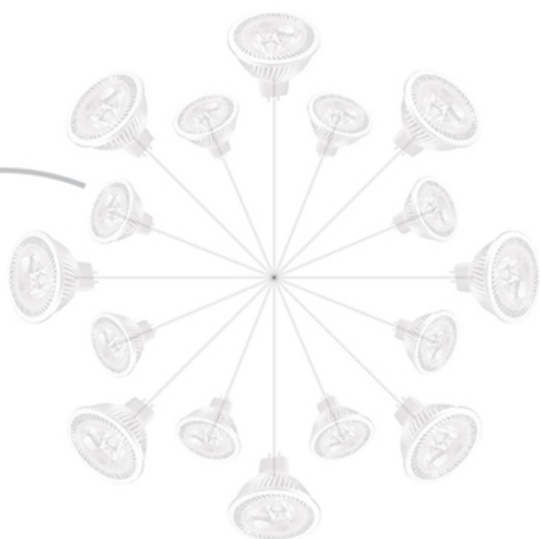




SECO
Lighting

Lighting **Desires** '14-15



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About us

SECO is the branding for new lighting ideas to become true. We work with designers and customers to explore and extend the new lighting possibilities and ideas. This is where quality and performance and design come together to maximize the lighting performance and ensure eco-friendly at the same time.

SECO is also the branding of WINSTAR LIGHTING Company Limited. We are Thai company with well established history of producing quality lighting fixtures, inception in 1995 with the start of 5 million Baht capital to 36 million Baht capital in present. We are experience designer, manufacturer, and distributor of lighting products to dealers, contractors, building owners, etc. SECO's product portfolio covers a variety of lighting fixtures including indoor lightings such as fluorescent fixtures, downlights, high bay & low bay to outdoor lightings such as landscape light, street light, flood light, etc. and also customized lighting fixtures to fit our customers' applications and requirements.

We also do ODM and OEM for various brands and customers, especially in fluorescent lighting fixtures and sophisticate reflector design and processing. SECO lighting fixtures are designed and produced according to TISI standards. To ensure quality of our products and services, our production and quality management system have been organized in accordance with ISO9001:2008 including management responsibility, development control, document control, purchasing control, product identification and traceability, process and production control, inspection and testing status, corrective action, quality records, internal quality audits, training and statistical method. We put all affords to ensure quality to accomplish only one ultimate goal which is "customer satisfaction".



Production

FACILITY

After successful years of services our customers, we has expanded to the larger workshop premises in Prasamut Chedi, Samut Prakarn province, only 15 minutes from Bangkok. Our 18,000 sq.m. facility includes production lines, warehouses, lighting laboratory, and offices for management, sales, engineers, research and development, accounting, and human resource teams. In workshop, we pursue high quality processing machines and equipments which can handle high precision and accuracy production.

MARKETING & SERVICE TEAM

SECO sales team focuses on delivering information, assistance, and quality services, and products to our customers at the shortest time. We are happy to share knowledge, experience, and expertise with our customers. We are proud to introduce our strength product portfolio with engineering specification sheet and technical data to help you better understand our products' characteristic and achieve design you dream of. We believe in our product quality and our loyalty to all customers to achieve a long-term win-win relationships.

PRODUCTION TEAM

SECO production team is one of the most experienced team in this field. We focus on safety and quality of the product itself as well as the efficiency and quality of the process. Our staffs are constantly trained in every aspects of their jobs to ensure quality of our products. Furthermore, we bring software to help analyzing our production efficiency, productivity, strength and weakness. Also, in every critical point of the production lines, we have a staff from Quality Assurance team in position to achieve the highest quality possible.

TOOLING WORKSHOP

SECO has in-house tooling department which provides new tooling for the existing as well as new products. Our skilled staffs keeps developing and improving new tooling that suitable for our production process and speed. In fact, our in-house tooling shop plays an important role in shorten our production time and time-to-market of our new products.



MATERIAL SHOP

All SECO lighting fixtures are designed and produced according to ISO9001:2008 and required TISI standards. Electrical components like control gear, lamp holder, terminal block, wire are attentively selected from world's leading companies.

RESEARCH & DEVELOPMENT

SECO lighting fixtures are carefully designed and tested to meet each requirement. We have in-house design team with software to shorten the design process and guarantee the efficiency of the fixtures. We design each fixture under aspects of safety, performance, quality, beauty, and economy. Our design team is equipped with machines and a lighting laboratory which allow us to develop new products in a very short time. Also, we provide lighting simulation service for customers who want light output installation simulation. We have well-trained engineers available to provide instructions and support regarding our products.

LIGHTING LABORATORY

SECO own a in-house lighting laboratory at our own factory which is compliant to ISO/IEC17025-2005 (General Requirements of The Competence of Testing And Calibration Laboratories). This laboratories allows us to measure photometric parameters of luminaires such as indoor fixtures, street lights, flood light for spatial intensity distribution, intensity distribution curve, luminance curves, effective average intensity map, lighting probability curves, brightness limit curves, glare rating, the total luminous flux, effective flux, etc. The reliable and correctness of testing processes and information are closely controlled by our experienced engineers.

TOWARD

SECO has already put ourselves into the demands and trends of customers' needs of green environment by providing an efficient fixtures with less energy consumption to support the green world. In the past, we had successfully developed T5 high efficiency output fixtures awarded 1st prize in 2008 by TIEA and intensively offer the most attracting attention of newest light source, LEDs, to perform its most features of their high brightness and appealing light effect at affordable price.



TISI Standards



TIS 902-2548



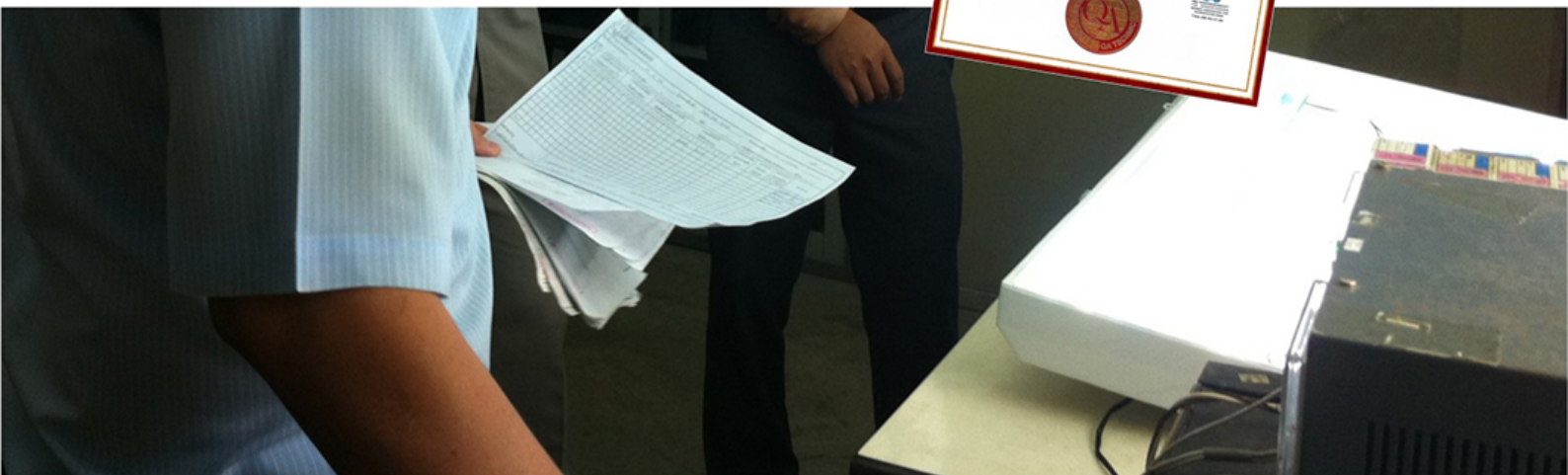
TIS 903-2548



TIS 1955-2551

ISO 9001-2008

SECO Quality Management System has been organized in accordance to ISO9001:2008 including: Design and Development Control System, Management Responsibility, Quality Management System, Internal Quality, Document Control System, Inspection and testing Control, Procurement System, Prevention and Corrective action handling, Warehouse and Logistic Management.



Award Winning

High Efficiency T5 Lighting Fixture

In 2008, the Thai Illumination and Engineering Association (TIEA) held up a competition for high efficiency T5 lighting fixture to find the design that gives the highest efficiency fixture in order to guide the standard for future T5 lighting fixture. The competition was divided into 3 categories: 4x28w Fluorescent high bay, 2x28w Louver luminaire, and 2x28w Industrial type luminaire.

Almost all leading lighting fixture factories joined this competition. Under the same condition, SECO won 2 out of 3 categories which are Fluorescent high bay and Industrial type luminaire.

1st Prize



Consolidate Prize



S&B0 428 FHR / 95

With maximum Light Output Ratio

97%



IT 228 WRAL / 95

With maximum Light Output Ratio

98%

Project References

For many years in the lighting industry, we have been working on many projects with various types of applications ranging from office buildings, factories and warehouses, government institutes, showrooms, schools and universities, hotels, residences, hospitals, and such. These references should provide you an idea how well we could serve you.

FACTORIES & WAREHOUSES

- Thai Namtip Co., Ltd.
- Trio-Tech at Ladkrabang Industrial zone
- Well Grow Industrial Zone
- Seagate Factory at Chokchai
- SB Furniture Factory
- Pimdee Factory
- Double A Factory (Prajnaburi)
- Futaya Project
- National Battery Factory
- Bangkok Poakapan
- Bangkok Concrete Co., Ltd.
- Horizon Textiles Co., Ltd.
- Hawa Warehouse
- S.S.M. Factory
- PTI Wang-noi
- Uniliver Factories (Renovate)
- Mitsubishi Factory
- Suthasini Factory
- Laemthong Sahakarm Factories
- S.Paisan Steam Boiler Co., Ltd.
- Suthani Factory
- K.T. Thai Local Products Co., Ltd.

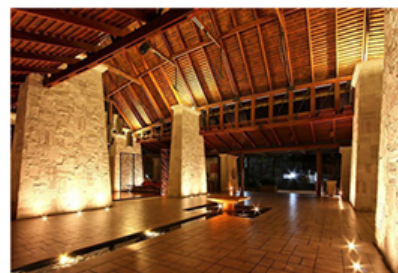
EDUCATIONAL INSTITUTES

- KIS International School
- Denla Kindergarten
- Matthayom Wat nongkhaem School
- Juthaporn Kindergarten
- Buddhachinnarajpittaya School
- Panjasap School

- Wan Thamari School (Nakornsawan)
- Mahanakorn University
- Ramkhamhaeng-trang
- Chandrakasem Rajabhat University
- Songkra Rajabhat University
- Nakhon Pathom Rajabhat University
- Suan Dusit Rajabhat University
- King Mongkut's University of Technology Thonburi
- King Mongkut's Institute of Technology Ladkrabang
- Faculty of Veterinary Medicine of Kraseatsart University
- Mae Fah Luang University

OFFICE BUILDINGS

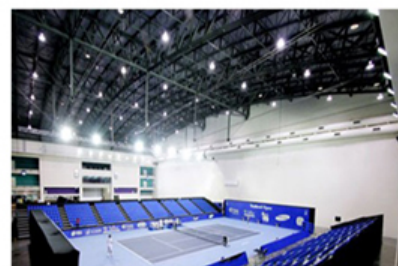
- Q.House Co., Ltd. (Office Building)
- Wattajak Newspaper Publishing
- Siam City Cement Building
- Thai Namtip Building Rama3
- World Nitting Co., Ltd.
- Daisin/Nisson Co., Ltd.
- U.M.Tower
- Chang Office Building
- TPI Nakornloun Building
- A.E.C Home Office Ratchada
- All Season Building
- Siam Sport Building
- The Federation of Thai Industries Building
- H.M.D Rayong
- Amways Office Building
- Warner Tower Phase2, Phase3



Veranda Resort & Spa (Hua-Hin)



Dtac Business Center - Jarnjuri Square



Muang Thong Impact Arena - Halls

CONTINUE...

Project References (cont...)

For many years in the lighting industry, we have been working on many projects with various types of applications ranging from office buildings, factories and warehouses, government institutes, showrooms, schools and universities, hotels, residences, hospitals, and such. These references should provide you an idea how well we could serve you.

GOVERNMENT INSTITUTES

- Office of Chiangmai Election Commission
- Office of Petchanuri Election Commission
- Department of Cultural Promotion Building
- Supreme Command Headquarter
- Electricity Operating Authority Thailand at Mae Moh
- Several Office Buildings of Post Engineer Department
- Several Office Buildings of Directorate of Operations
- Post Engineer Department Buildings
- Ministry of Agriculture and Cooperatives
- Bangkok Metropolitan Renovation Project
- Park-kret Municipality Office
- Pitsanulok Municipality Office
- Pravaet Police Station
- Narathaiwart Police Station
- Tungkru Police Station
- Magkasan Police Station
- Bang-Prae Police Station
- Chongsane Police Station
- Klong-taer Electricity Authority 6th Building
- Fine Arts Department
- Thai Telecommunication Office at Long-muang
- Thai Telecommunication Office at Bangkok-noi
- Service Center 41 Kong-taer
- Office of the Registrar
- Lom Krao Housing Authority
- Rat Burana District Administration Office
- Dong Mauang Fire Department
- The Federation of Thai Industries

HOSPITALS

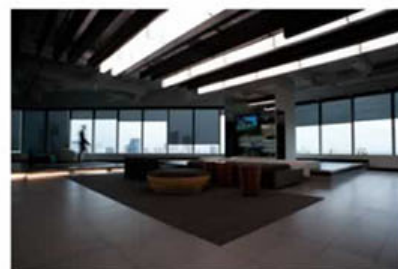
- Prayathai3 Hospital
- Nopparat Rajthani Hospital
- Police General Hospital
- Roumpaet Hospital
- Taksin Hospital
- Satarin Sri Building
- Maesai Hospital

HOTELS & RESIDENTIALS

- Narmapichon Resident Project (Land & House)
- Saeree Village Rama9
- Thai Weerawat Building
- VT House Apartment
- Ladprao Garden Resident
- V.I.P Condominium
- Future Place Condominium
- Jutharat Resident
- Veranda Resort & Spa (Hua-Hin)
- Sofitel So Bangkok Hotel

OTHERS

- Phuket Airport
- Impact Arena (Muang Tong Thani)
- Naparai Village Driving Range
- Gassan Rama2 Driving Range
- Salolak Complex
- Taxi Moving Ads
- Thai Commercial Bank (40+ branches)
- Bank of Thailand
- Dtac Headquarter (Jarmjuri Square)



Dtacc House - Jarmjuri Square



Thai Commercial Bank - Branches Renovate



Phuket Airport

AND MANY MORE....

■ **Born**
Brightening **ECO**
s **ECO** LED



LED's Key Benefits

EFFICIENCY

LED is the most efficient light source available. LEDs use far less energy to provide the same amount of light as other light sources. Lumens per watt is a way of identifying how much light a bulb provides compared to the amount of energy, or wattage, used. The efficiency of LEDs produces 4 times more light per watt than incandescent bulbs; this is useful in battery powered or emergency-saving devices.

LIFESPAN

LEDs are solid state and contain no fragile gases or filaments which have a limited lifespan. LEDs can last up to 50,000 hours or more while Metal Halide bulbs are designed to last up to 20,000hrs and High Pressure Sodium bulbs can last up to 24,000 hrs.

ON/OFF TIME

LEDs light up very quickly. A typical red indicator LED will achieve full brightness in microseconds. LEDs used in communications devices can have even faster response times.

COLOR

LEDs can emit light of an intended color without the use of color filters that traditional lighting methods require. This is more efficient and can lower initial costs.

SIZE

LEDs can be very small (smaller than 2mm) and are easily populated onto printed circuit boards.

COOL LIGHT

In contrast to most light sources, LEDs radiate very little heat in the form of IR that can cause damage to sensitive objects or fabrics. Wasted energy is dispersed as heat through the base of the LED.

DIMMING

LEDs can very easily be dimmed either by Pulse-width modulation or lowering the forward current. Today's technology is now incorporating into its light products that allows intelligent dimming both programmed and remotely configurable.

SLOW FAILURE

LEDs mostly fail by dimming over time, rather than the abrupt burn-out of incandescent bulbs.

SHOCK RESISTANCE

LEDs, being solid state components, are difficult to damage with external shock, unlike fluorescent and incandescent bulbs which are fragile.

FOCUS

The solid package of the LED can be designed to focus its light. Incandescent and fluorescent sources often require an external reflector to collect light and direct it in a usable manner.

SAFETY

Most LED lights operate at low voltage so much safer to handle during installation and maintenance and can be exposed to rain and snow.

ENVIRONMENTALLY FRIENDLY

The benefit of LED lights is that they are an eco-friendly form of lighting as they do not contain mercury or CO2 or other harmful gasses or emit any harmful UV rays.



LED's Facts

LED BASIC TECHNOLOGY

LEDs, stands for Light Emitting Diode, are small light source that become illuminated by the movement of electrons through a semiconductor material. A diode is a positive/negative transition which allows electrons to flow in only one direction. When electrons make a transition, they give off a photon of light. For that reason a diode is called a semiconductor. Thus, LED light isn't generated by heating a filament (that could easily break) but by electro-luminescence.

HEAT EXCHANGER

Even though LEDs do not radiate infrared heat, waste heat is produced during the conversion of electricity into light and, if not properly removed from the lighting system, may potentially damage the LEDs and effect the product lifetime. Thus, thermal management plays an integral part in the length of LED source lifetime and is directly affected by fixture design. This can be achieved through an appropriately design heat sink. The success of heat dissipation involves limiting the operating temperature of the LED light source in the so-called Tj (junction temperature) point.

DRIVER

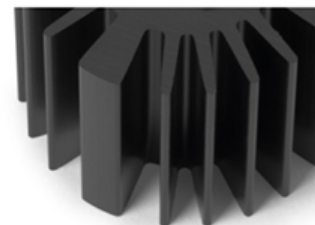
Driver maintains proper current and voltage levels to the LEDs within the specific range at which the LEDs are designed to perform. High powered LEDs include anything power at 1-watt or greater and require constant current drivers in order to protect the LEDs from over-current. LED also require a minimum current in order to light. Optimally designed fixtures include drivers that account for compatibility with dimmers.

OPTIC

Optics control the beam spread distribution of light form the point source LEDs and have a dramatic effect on fixture performance. Designing and specifying the materials to be used for a fixture is vital to achieve the luminous efficiency ratios specified. Quality LED optics deliver over 90% of the light emitted more evenly over the area to be lit, dissipating hot spots, rings and shadows. We design and choose the optic by always think about the benefits of the overall result.

LIFE SPAN

LEDs have a long source life, but like all light sources, they slowly fade over time. The light output degradation, also known as lumen maintenance, is predicted by testing LEDs over a long period of time in order to determine when a specified percentage of light output is lost. Factors such as the effectiveness of thermal management, ambient temperatures, and electrical drives currents are contribute to lumen depreciation.

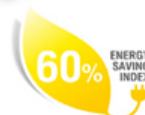


01

LED Lighting

LED lighting is creating a revolution in the lighting industry by providing fresh solutions for traditional lighting applications and exciting new applications for lighting that we can currently barely imagine.





LED-T8

LED T8 Fluorescent Retrofit Tube

T8 Florescent tube has been a conventional tube and widely use for many years. However LED T8 fluorescent tube has the advantages over traditional T8 fluorescent lamp especially longer life hours, more energy saving and more ecologically friendly

ADVANTAGES

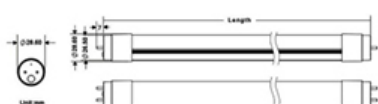
- 3x longer life hours at least
- 60% saving on energy consumption
- 66% saving on maintenance cost
- No UV, no IR, no CO2, no Mercury & lead free

FEATURES

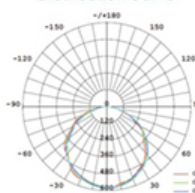
- LED Brand / Type: Brightlux / SMD
- Housing: Aluminium extrusion
- Optics: Polycarbonate (PC)
- End Cap: Polycarbonate (PC)
- Lamp holder: G13
- Working Voltage: 100 - 240VAC
- Operating Temperature: -10°C - +40°C
- Life Span: 35,000 hrs
- Dimmable: No
- Warranty: 2 years

APPLICATION

- Showrooms, Shops, Department Stores, Offices, Commercial Building, etc.



Distribution Curve



MODEL NO	REPLACE- MENT	LENGTH (mm.)	WATT (w)	POWER FACTOR (PF)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)	BEAM ANGLE
T8-1-10W645-M-060	T8 - 18w.	600	10	> 0.9	825	4500	> 75	120
T8-1-10W665-M-060	T8 - 18w.	600	10	> 0.9	850	6500	> 75	120
T8-1-19W645-M-120	T8 - 36w.	1,200	19	> 0.9	1800	4500	> 75	120
T8-1-19W665-M-120	T8 - 36w.	1,200	19	> 0.9	1900	6500	> 75	120

LED-MR16

LED MR16 Retrofit Lamp



Halogen MR16 lamp has been a conventional tube and widely use for many years. However LED Halogen MR16 lamp is an ideal alternatives to conventional halogen MR16 lamp. It has the advantages over traditional T8 fluorescent lamp especially longer life hours, less heat generated through light source, more energy saving and more ecologically friendly

ADVANTAGES

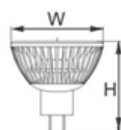
- 6x longer life hours
- 80% saving on energy consumption
- 83% saving on maintenance cost
- No UV, no IR, no CO₂, no Mercury & lead free

FEATURES

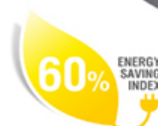
- LED Brand / Type: Brightlux / SMD
- Housing: Aluminium
- Optics: Polycarbonate (PC)
- Lamp holder: GU5.3
- Working Voltage: 12VDC
- Operating Temperature: -10°C - +40°C
- Life Span: 35,000 hrs
- Dimmable: No
- Warranty: 2 years

APPLICATION

- Showrooms, Shops, Department Stores, Offices, Commercial Building, residences, etc.



MODEL NO	REPLACEMENT	DIMENSION W x H (mm.)	WATT (w)	POWER FACTOR (PF)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)	BEAM ANGLE
HGX-1-3W845-30-ND	MR16 - 20w.	50 x 51	3 x 1w.	> 0.9	165	3000	> 70	30
HGX-1-3W865-30-ND	MR16 - 20w.	50 x 51	3 x 1w.	> 0.9	190	6500	> 70	30
HGX-1-5W845-30-ND	MR16 - 50w.	50 x 51	5 x 1w.	> 0.9	330	3000	> 70	30
HGX-1-5W865-30-ND	MR16 - 50w.	50 x 51	5 x 1w.	> 0.9	380	6500	> 70	30



LED-QR111

LED QR111 Retrofit Lamp

QR111 lamp has been a conventional tube and widely use to in shop lighting for several years. However LED QR111 lamp is more ecologically friendly due to low energy consumption, generate much lower heat.

ADVANTAGES

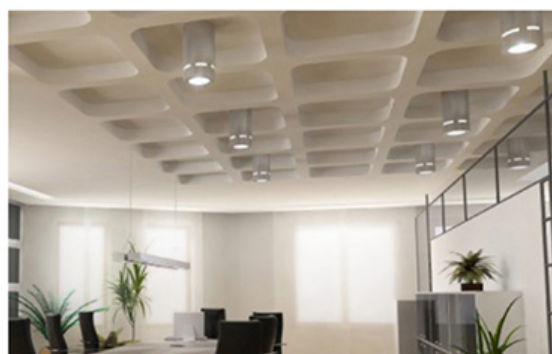
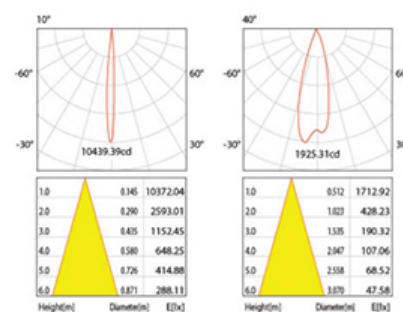
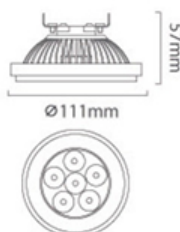
- 6x longer life hours
- 60% saving on energy consumption
- 83% saving on maintenance cost
- No UV, no IR, no CO₂, no Mercury & lead free

FEATURES

- LED Brand / Type: CREE / SMD
- Housing: Aluminium
- Optics: Polycarbonate (PC)
- Lamp holder: GU5.3
- Working Voltage: 12 VDC
- Operating Temperature: -15°C - +50°C
- Light Degree: 8, 25 degree
- Life Span: 35,000 hrs
- Dimmable: No
- Warranty: 2 years

APPLICATION

- Showrooms, Shops, Department Stores, Offices, Commercial Building, residences, etc.



MODEL NO	REPLACEMENT	DIMENSION W x H (mm.)	WATT (w)	ANGLE	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)
QR111-1-12W630-8	QR111 - 100w.	111 x 57	12	8°	720	3000	> 70
QR111-1-12W630-25	QR111 - 100w.	111 x 57	12	25°	720	3000	> 70

LED-Candle

LED Candle Retrofit Lamp

E14 Candle bulb has been a conventional tube and widely use for many years. However LED Candle bulb is an ideal alternatives to conventional E14 candle bulb. It has the advantages over traditional E14 candle bulb especially longer life hours, less heat generated through light source, more energy saving and more ecologically friendly



ADVANTAGES

- 25x longer life hours
- 50% saving on energy consumption
- 96% saving on maintenance cost
- No UV, no IR, no CO2, no Mercury & lead free

FEATURES

- LED Brand / Type: Brightlux / SMD
- Housing: Aluminium
- Optics: PMMA
- Lamp holder: E14
- Working Voltage: 100 - 240VAC
- Operating Temperature: -10°C - +60°C
- Life Span: 25,000 hrs
- Dimmable: No
- Warranty: 2 years

APPLICATION

- Widely used in crystal lamps, chandeliers, candle lamps, and high-end lamps.



MODEL NO	REPLACEMENT	DIMENSION W x H (mm.)	WATT (w)	POWER FACTOR (PF)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)	REMARK
CND-1-3W630	Candle - 25w.	36 x 107	3	-	260	3000	> 70	

LED-GLS

LED GLS Retrofit Lamp

GLS lamp has been a conventional lamp and widely use for many years. However LED GLS lamp is more eco-friendly and energy saving than the traditional GLS lamp.

ADVANTAGES

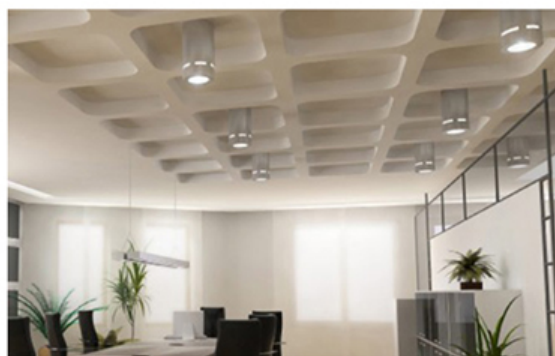
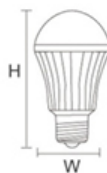
- 6x longer life hours
- 80% saving on energy consumption
- 83% saving on maintenance cost
- No UV, no IR, no CO₂, no Mercury & lead free

FEATURES

- LED Brand / Type: Brightlux / SMD
- Housing: Aluminium
- Optics: Polycarbonate (PC)
- Lamp holder: E27
- Working Voltage: 100 - 240VAC
- Operating Temperature: -10°C - +40°C
- Life Span: 35,000 hrs
- Dimmable: No
- Warranty: 2 years

APPLICATION

- Showrooms, Shops, Department Stores, Offices, Commercial Building, residences, etc.



MODEL NO	REPLACEMENT	DIMENSION W x H (mm.)	WATT (w)	POWER FACTOR (PF)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)
GLS-1-5W645-M	GLS - 25w.	65 x 128	5	> 0.9	450	4500	> 70
GLS-1-5W665-M	GLS - 25w.	65 x 128	5	> 0.9	500	6500	> 70
GLS-1-8W645-M	GLS - 40w.	65 x 128	8	> 0.9	720	4500	> 70
GLS-1-8W665-M	GLS - 40w.	65 x 128	8	> 0.9	770	6500	> 70
GLS-1-10W645-M	GLS - 60w.	65 x 128	10	> 0.9	900	4500	> 70
GLS-1-10W665-M	GLS - 60w.	65 x 128	10	> 0.9	990	6500	> 70

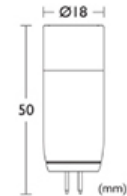
LED-G4

LED G4 Retrofit Lamp



SPECIFICATION

- Lamp Holder: G4
- Input Voltage: 12 VDC
- Wattage: 3 w.
- LED Brand: CREE
- Color Temperature: 3000K
- Dimension: W: 18mm x H: 50mm.
- Life Span: 40,000 hrs



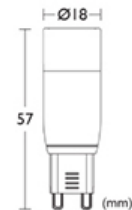
LED-G9

LED G9 Retrofit Lamp



SPECIFICATION

- Lamp Holder: G9
- Input Voltage: 220 VAC
- Wattage: 3 w.
- LED Brand: CREE
- Color Temperature: 3000K
- Dimension: W: 18mm x H: 57mm.
- Life Span: 40,000 hrs



LED - PAR

LED PAR Retrofit Lamp



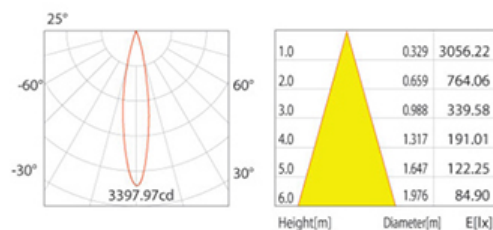
PAR lamp has been a conventional bulb and widely use for many years. However LED PAR lamp is an ideal alternatives to conventional PAR lamp. The longer life hours, less heat generated through light source, more energy saving and more ecologically friendly are benefits over traditional PAR lamp

ADVANTAGES

- 25x longer life hours
- 60% saving on energy consumption
- 96% saving on maintenance cost
- No UV, no IR, no CO₂, no Mercury & lead free

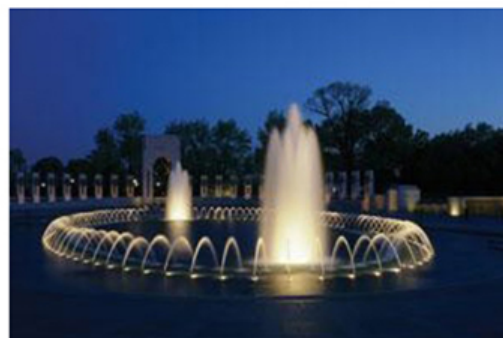
FEATURES

- LED Brand / Type: Brightlux / SMD
- Housing: Aluminium
- Optics: PMMA
- Lamp holder: E27
- Working Voltage: 100 - 240VAC
- Operating Temperature: -15°C - +40°C
- Life Degree: 25 degree
- Life Span: 25,000 hrs
- Dimmable: No
- Warranty: 2 years

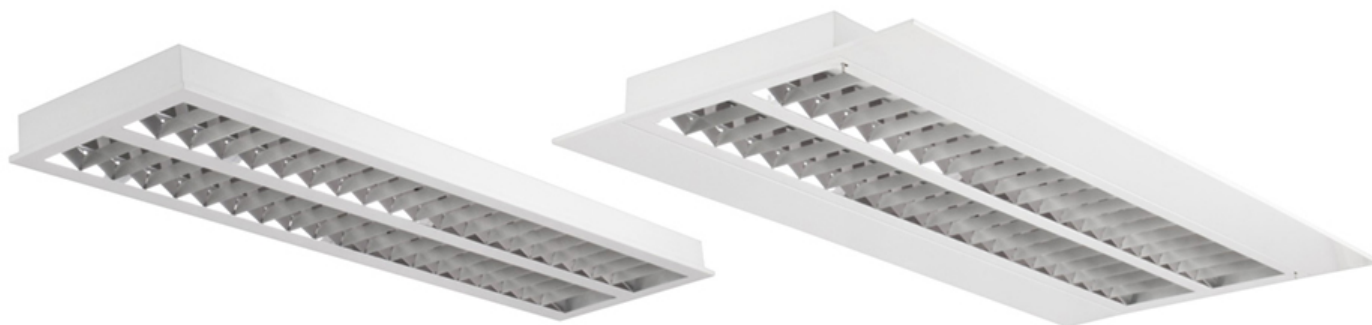


APPLICATION

- Widely used for shop lighting, showroom to highlight an object to an area.

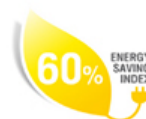


MODEL NO	REPLACEMENT	DIMENSION W x H (mm.)	WATT (w)	POWER FACTOR (PF)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	BEAM ANGLE
PAR20-1-9W630-24	PAR20 - 50W.	64 x 90	9	0.95	300	3000K	24°
PAR30-1-12W630-15	PAR30 - 75w.	95 x 100	12	0.95	600	3000K	15°
PAR30-1-12W630-40	PAR30 - 75w.	95 x 100	12	0.95	600	3000K	40°
PAR38-1-18W630-15	PAR38 - 100w.	120 x 130	18	0.95	900	3000K	15°
PAR38-1-18W630-40	PAR38 - 100w.	120 x 130	18	0.95	900	3000K	40°



FCL-CR

Recessed LED Louver Luminaire



HOUSING

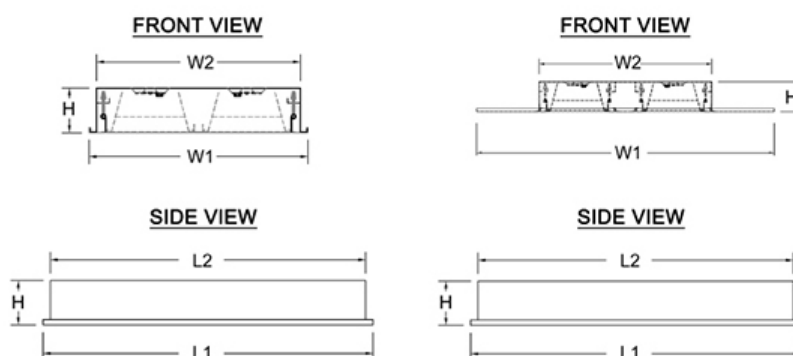
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage.
- 99.85% high purity anodized aluminium louver with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for longitudinal.
- Louver and profiles are applied to anti-glare.

INSTALLATION & APPLICATION

- For recessed T-bar and Gypsum ceiling installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.

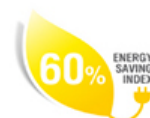


MODEL NO	REPLACEMENT	WATT	LUMINOUS FLUX (Lumen)	COLOR TEMPERATURE (K)	DIMENSION (mm.)				
					L1	L2	W1	W2	H
FCL-CR 42	2 x T5 28w.	LED Module - 42w.	4000	Daylight - 6500	1195	1175	295	275	60
FCL-CBR 42	2 x T5 28w.	LED Module - 42w.	4000	Daylight - 6500	1195	1175	595	345	60



SCL-CR

Surfaced Mounted LED Louver Luminaire



HOUSING

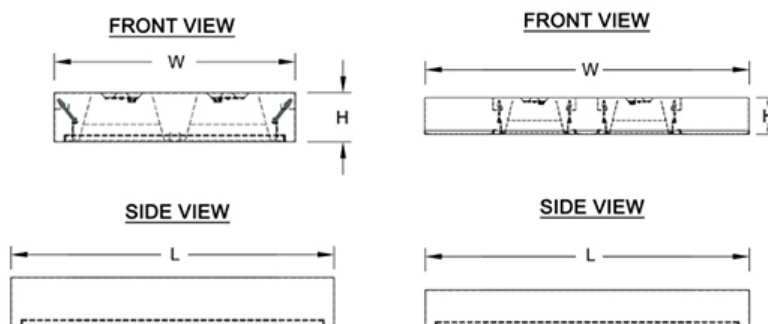
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage.
- 99.85% high purity anodized aluminium louver with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for longitudinal.
- Louver and profiles are applied to anti-glare.

INSTALLATION & APPLICATION

- For surface mounting or suspension rod installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.



MODEL NO	REPLACEMENT	WATT	LUMINOUS FLUX (Lumen)	COLOR TEMPERATURE (K)	DIMENSION (mm.)		
					L1	W1	H
SCL-CR 42	2 x T5 28w.	LED Module - 42w.	4000	Daylight - 6500	1951	295	60
SCL-CBR 42	2 x T5 28w.	LED Module - 42w.	4000	Daylight - 6500	1951	295	60



FCL-PL

Recessed LED Prismatic Diffuser Luminaire



HOUSING

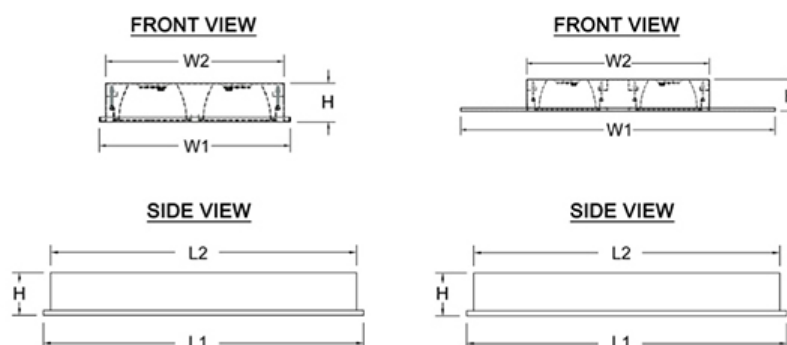
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

REFLECTOR & DIFFUSER

- Opal prismatic diffuser for smooth light distribution.
- Spring-lock type for ease of maintenance.

INSTALLATION & APPLICATION

- For recessed T-bar and Gypsum ceiling installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.

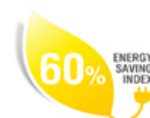


MODEL NO	REPLACEMENT	WATT	LUMINOUS FLUX (Lumen)	COLOR TEMPERATURE (K)	DIMENSION (mm.)				
					L1	L2	W1	W2	H
FCL-PL 42	2 x T5 28w.	LED Module - 42w.	3800	Daylight - 6500	1195	1175	295	275	60
FCL-PBL 42	2 x T5 28w.	LED Module - 42w.	3800	Daylight - 6500	1195	1175	595	345	60



SCL-PL

Surfaced LED Prismatic Diffuser Luminaire



HOUSING

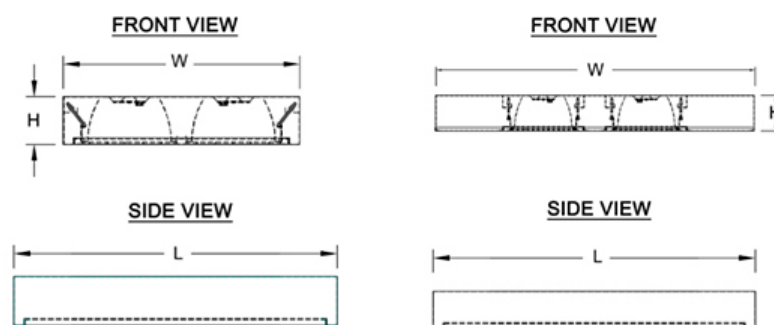
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

REFLECTOR & DIFFUSER

- Opal prismatic diffuser for smooth light distribution.
- Spring-lock type for ease of maintenance.

INSTALLATION & APPLICATION

- For surface mounting or suspension rod installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.



MODEL NO	REPLACEMENT	WATT	LUMINOUS FLUX (Lumen)	COLOR TEMPERATURE (K)	DIMENSION (mm.)		
					L1	W1	H
SCL-PL 42	2 x T5 28w.	LED Module - 42w.	3800	Daylight - 6500	1195	295	60
SCL-PBL 42	2 x T5 28w.	LED Module - 42w.	3800	Daylight - 6500	1195	295	60



T&F3-CR LED

Recessed LED Louver Luminaire



HOUSING

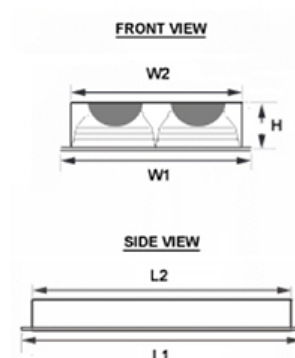
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage.
- 99.85% high purity anodized aluminium louver with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for longitudinal with aluminium profile to anti-glare.
- Louver and profiles are applied to anti-glare.
- Clip-lock type for ease of maintenance.

INSTALLATION & APPLICATION

- For recessed T-bar and Gypsum ceiling installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.



MODEL NO	REPLACEMENT	WATT	LUMINOUS FLUX (Lumen)	COLOR TEMPERATURE (K)	DIMENSION (mm.)				
					L1	L2	W1	W2	H
T&F3 21 CR	2 x T5 14w.	LED Module - 21w.	4000	Daylight - 6500	595	570	295	270	65
T&F3 42 CR	2 x T5 28w.	LED Module - 42w.	4000	Daylight - 6500	1195	1170	295	270	65

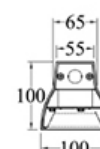
LIT-CL

LED Pendant Louver Luminaire

- Made of high quality cold-rolled steel sheet
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- 99.85% high purity anodized aluminium reflector
- For suspension or surface mounted installation.



MODEL NO	REPLACEMENT	WATT	Color Temperature (K)	LUMINOUS FLUX (Lumen)	DIMENSION (mm.)		
					L	W	H
LIT-CL 21	T5 1x28w	LED Module - 21w	4000K	1680	1170	100	100
LIT-CL 21	T8 1x36w	LED Module - 21w	6500K	1770	1170	100	100
LIT-CL 42	T5 2x28w	LED Module - 42w	4000K	3340	1170	100	100
LIT-CL 42	T8 2x36w	LED Module - 42w	6500K	3500	1170	100	100



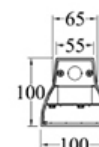
LIT-PL

LED Pendant Acrylic Diffuser Luminaire

- Made of high quality cold-rolled steel sheet
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Opal acrylic diffuser for smooth light distribution
- For suspension or surface mounted installation.



MODEL NO	REPLACEMENT	WATT	Color Temperature (K)	LUMINOUS FLUX (Lumen)	DIMENSION (mm.)		
					L	W	H
LIT-PL 21	T5 1x28w	LED Module - 21w	4000K	1650	1170	100	100
LIT-PL 21	T8 1x36w	LED Module - 21w	6500K	1750	1170	100	100
LIT-PL 42	T5 2x28w	LED Module - 42w	4000K	3180	1170	100	100
LIT-PL 42	T8 2x36w	LED Module - 42w	6500K	3350	1170	100	100





PE2-LED

LED Weather proof Luminaire

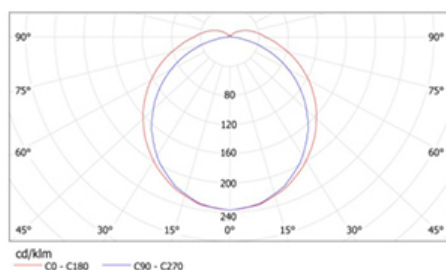
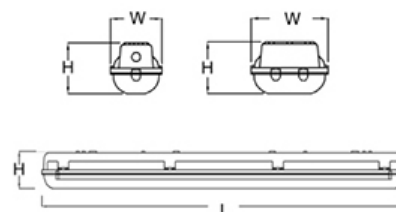


HOUSING

- Injected polycarbonate (PC) in grey color with injection molded clear prismatic UV stabilized polycarbonate (PC) with curved to anti-glare.
- Cold-rolled steel plate, finished with high glossy baked white polyester powder coating
- Diffuser: Opal polycarbonate diffuser for anti-glare
- Stainless clip lock (SL). Optional: Polycarbonate (PC) clip lock
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).

INSTALLATION & APPLICATION

- Suitable for semi-outdoor or outdoor application



MODEL NO	REPLACEMENT	WATT	LUMINOUS FLUX (Lumen)	BEAM ANGLE	COLOR TEMPERATURE (K)	DIMENSION (mm.)		
						L	W	H
PE2 21 M	1 x T8 36w.	LED Module - 21w.	2300	120	4000K, 6500K	1270	110	108
PE2 42 M	2 x T8 36w.	LED Module - 42w.	4165	120	4000K, 6500K	1270	170	108



S&BL-FPRJ

Acrylic Diffuser Type Fluorescent High Bay

HOUSING

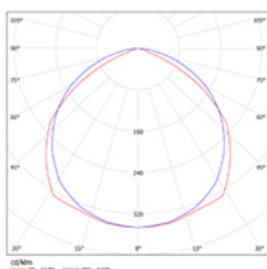
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

REFLECTOR & DIFFUSER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for high efficiency purpose.
- High quality clear acrylic diffuser with steel painted frame.
- Stainless clip-lock type for ease of maintenance.
- Weather proof gasket seal for higher prevention (Optional).
- Wire guard cover (Optional).

INSTALLATION & APPLICATION

- For surface mounted or suspension rods installation.
- Recommended for warehouses, factories, gymnasium, etc.



MODEL NO	REPLACEMENT	WATT	LUMINOUS FLUX (Lumen)	BEAM ANGLE	COLOR TEMPERATURE (K)	DIMENSION (mm.)		
						L	W	H
S&BL 221 FHRJ	2 x T5 28w.	LED Module - 42w.	4200	120	4000K, 6500K	1200	300	94
S&BL 321 FHRJ	3 x T5 28w.	LED Module - 63w.	6300	120	4000K, 6500K	1200	405	94
S&BL 421 FHRJ	4 x T5 28w.	LED Module - 84w.	8400	120	4000K, 6500K	1200	525	94
S&BL 621 FHRJ	6 x T5 28w.	LED Module - 126w.	12600	120	4000K, 6500K	1200	525	94
S&BL 254 FHRJ	3 x T5 54w.	LED Module - 109w.	11100	120	4000K, 6500K	1200	300	94
S&BL 354 FHRJ	4 x T5 54w.	LED Module - 164w.	16650	120	4000K, 6500K	1200	405	94
S&BL 454 FHRJ	6 x T5 54w.	LED Module - 218w.	22200	120	4000K, 6500K	1200	525	94



WBD

LED Bed Light Luminaires

SPECIFICATION

- **Housing:** Aluminium light head, steel flexible arm.
- **Optic:** Polycarbonate optic lens
- **Gear Box:** Steel gear box at the base for driver
- **Installation:** Surface mounting with screws
- **Application:** Designed for bed lamp, living area reading lamp and rest home.

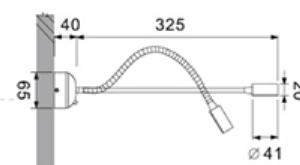


WBD-001

LED Bed Light Luminaires



LED
1x1W / 1x3W

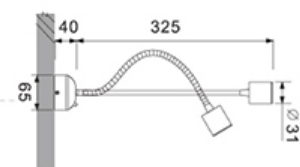


WBD-002

LED Bed Light Luminaires



LED
1x1W / 1x3W

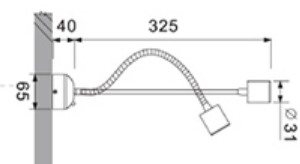


WBD-003

LED Bed Light Luminaires



LED
1x1W / 1x3W





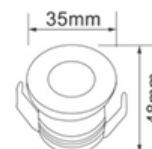
DRC-350

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Diffuser:** Polycarbonate lens
- **Color:** 3000K, 4000K, 6500K
- **Driver:** External driver
- Suitable for general decoration such as cabinet, casts, etc.



LED
1.4W



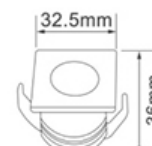
DRC-360

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Diffuser:** Polycarbonate lens
- **Color:** 3000K, 4000K, 6500K
- **Driver:** External driver
- Suitable for general decoration such as cabinet, casts, etc.



LED
1.4W



DRC-370

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Diffuser:** Polycarbonate lens
- **Color:** 3000K, 4000K, 6500K
- **Driver:** External driver
- Suitable for general decoration such as cabinet, casts, etc.



LED
1.4W



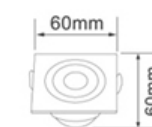
DRC-380

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Diffuser:** Polycarbonate lens
- **Color:** 3000K, 4000K, 6500K
- **Driver:** External driver
- Suitable for general decoration such as cabinet, casts, etc.



LED
1.4W





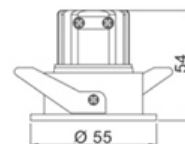
DRM-772

COB Downlight Luminaire

- **Housing:** Die-cast aluminium housing with polyester powder coated
- **Luminous Flux:** 230 lumen
- **Beam Angle:** 24°
- **Operating Temperature:** -25°C ~ 50°C
- **Color Rendering:** ≥70
- Suitable for general decoration such as residential, shop, etc.



LED
3W



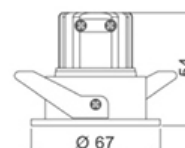
DRM-792

COB Downlight Luminaire

- **Housing:** Die-cast aluminium housing with polyester powder coated
- **Luminous Flux:** 230 lumen
- **Beam Angle:** 24°
- **Operating Temperature:** -25°C ~ 50°C
- **Color Rendering:** ≥70
- Suitable for general decoration such as residential, shop, etc.



LED
3W



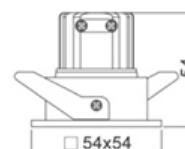
DRM-782

COB Downlight Luminaire

- **Housing:** Die-cast aluminium housing with polyester powder coated
- **Luminous Flux:** 230 lumen
- **Beam Angle:** 24°
- **Operating Temperature:** -25°C ~ 50°C
- **Color Rendering:** ≥70
- Suitable for general decoration such as residential, shop, etc.



LED
3W



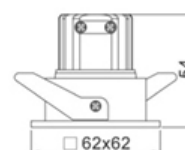
DRM-802

COB Downlight Luminaire

- **Housing:** Die-cast aluminium housing with polyester powder coated
- **Luminous Flux:** 230 lumen
- **Beam Angle:** 24°
- **Operating Temperature:** -25°C ~ 50°C
- **Color Rendering:** ≥70
- Suitable for general decoration such as residential, shop, etc.



LED
3W





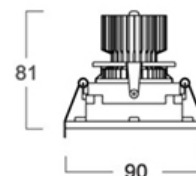
DRM-233

COB Downlight Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Luminous Flux:** 1100 lumen
- **Operating Temperature:** -20°C ~ 65°C
- **Color Rendering:** ≥80
- Suitable for general decoration such as residential, shop, etc.



LED
6W / 13W



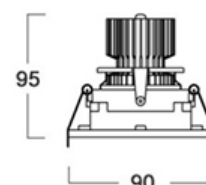
DRM-273

COB Downlight Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Luminous Flux:** 1100 lumen
- **Operating Temperature:** -20°C ~ 65°C
- **Color Rendering:** ≥80
- Suitable for general decoration such as residential, shop, etc.



LED
6W / 13W



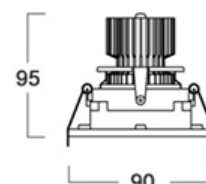
DRM-283

COB Downlight Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Luminous Flux:** 1100 lumen
- **Operating Temperature:** -20°C ~ 65°C
- **Color Rendering:** ≥80
- Suitable for general decoration such as residential, shop, etc.



LED
6W / 13W



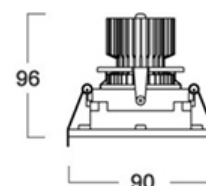
DRM-293

COB Downlight Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Luminous Flux:** 1100 lumen
- **Operating Temperature:** -20°C ~ 65°C
- **Color Rendering:** ≥80
- Suitable for general decoration such as residential, shop, etc.



LED
6W / 13W





DRV-SR1

SMD LED Round Recessed Downlight



LED Downlight is a low cost lighting typically for commercial lighting applications. It has the advantages over a traditional compact fluorescent lamp (CFL) especially longer life hours, more energy saving, and more ecologically friendly.

ADVANTAGES

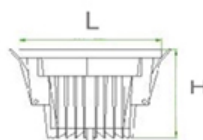
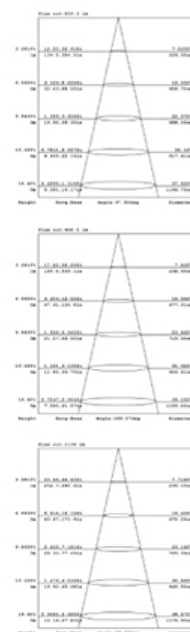
- 2x longer life hours
- 60% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & leads free

FEATURES

- LED Brand / Type: SMD 5630 Epistar LED
- Housing: Aluminium
- Optics: Opal polycarbonate
- Dimmable: Non Dimmable
- Working Voltage: 86 - 265VAC 50-60Hz
- Operating Temperature: -20°C - +65°C
- THD: <10%
- Power Factor: >0.95
- CRI (Ra): 70
- Beam Angle: 100
- Life Span: 30,000 hrs
- Warranty: 2 years

APPLICATION

- Widely used in showrooms, shops, department stores, shopping malls, etc



MODEL NO	REPLACE-MENT	WATT (w)	DIMENSION W x H (mm.)	CUT OUT (mm)	LED	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	LIGHT OUTPUT (lx)		
								@2m	@3m	@4m
DRV-SR1-12W-WW	PLC - 1 x 18w	12	140x45	125	36 LEDs	830	3000	88.55	39.35	22.14
DRV-SR1-12W-NW	PLC - 1 x 18w	12	140x45	125		830	4000	88.55	39.35	22.14
DRV-SR1-18W-WW	PLC - 2 x 18w	18	190 x 40	170	54LEDs	1320	3000	134.81	59.90	33.70
DRV-SR1-18W-NW	PLC - 2 x 18w	18	190 x 40	170		1320	4000	134.81	59.90	33.70
DRV-SR1-24W-WW	PLC - 2 x 26w	24	230 x 60	210	72 LEDs	1690	3000	173.91	77.29	43.48
DRV-SR1-24W-NW	PLC - 2 x 26w	24	230 x 60	210		1690	4000	173.91	77.29	43.48



DRV-SS1

SMD LED Round Recessed Downlight



LED Downlight is a low cost lighting typically for commercial lighting applications. It has the advantages over a traditional compact fluorescent lamp (CFL) especially longer life hours, more energy saving, and more ecologically friendly.

ADVANTAGES

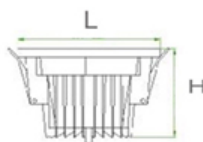
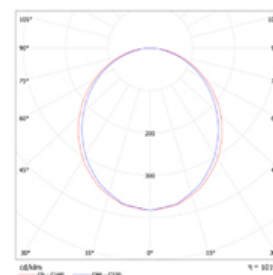
- 2x longer life hours
- 60% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & leads free

FEATURES

- LED Brand / Type: SMD 5630 Epistar LED
- Housing: Aluminium
- Optics: Opal polycarbonate
- Dimmable: Non Dimmable
- Working Voltage: 86 - 265VAC 50-60Hz
- Operating Temperature: -20°C - +65°C
- THD: <10%
- Power Factor: >0.95
- CRI (Ra): 70
- Beam Angle: 100
- Life Span: 30,000 hrs
- Warranty: 2 years

APPLICATION

- Widely used in showrooms, shops, department stores, shopping malls, etc



MODEL NO	REPLACE- MENT	WATT (w)	DIMENSION L x W x H (mm.)	CUT OUT (mm)	LED	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	LIGHT OUTPUT (lx)		
								@2m	@3m	@4m
DRV-SS1-12W-WW	PLC - 1 x 18w	12	140 x 140 x 45	125	36 LEDs	830	3000	88.55	39.35	22.14
DRV-SS1-12W-NW	PLC - 1 x 18w	12	140 x 140 x 45	125		830	4000	88.55	39.35	22.14
DRV-SS1-18W-WW	PLC - 2 x 18w	18	190 x 190 x 40	170	54 LEDs	1320	3000	134.81	59.90	33.70
DRV-SS1-18W-NW	PLC - 2 x 18w	18	190 x 190 x 40	170		1320	4000	134.81	59.90	33.70
DRV-SS1-24W-WW	PLC - 2 x 26w	24	230 x 230 x 60	210	72 LEDs	1690	3000	173.91	77.29	43.48
DRV-SS1-24W-NW	PLC - 2 x 26w	24	230 x 230 x 60	210		1690	4000	173.91	77.29	43.48



DRV-CR1

COB LED Round Recessed Downlight



LED Downlight is a low cost lighting typically for commercial lighting applications. It has the advantages over a traditional compact fluorescent lamp (CFL) especially longer life hours, more energy saving, and more ecologically friendly.

ADVANTAGES

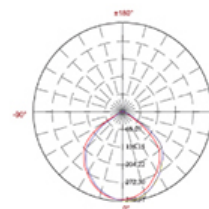
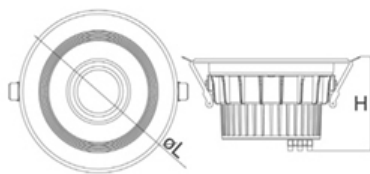
- 2x longer life hours
- 80% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & leads free

FEATURES

- LED Brand / Type: COB Sharp LED
- Housing: Aluminium
- Optics: Glass
- Dimmable: Non Dimmable
- Working Voltage: 100 - 240VAC
- Operating Temperature: -20°C - +65°C
- Life Span: 30,000 hrs
- Warranty: 2 years

APPLICATION

- Widely used in showrooms, shops, department stores, shopping malls, etc.

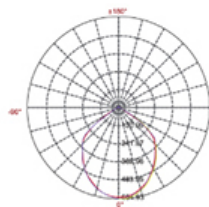


Illuminance at a Distance

Center Beam LUX	Beam Width V	Beam Width H
83.64 LUX	4.6m	4.7m
20.91 LUX	9.3m	9.3m
9.29 LUX	13.9m	14.0m
5.23 LUX	18.6m	18.6m
3.35 LUX	23.2m	23.3m
2.32 LUX	27.9m	28.0m

Vert Spread 98.6 Horiz Spread 98.8

DRV-CR1-10w

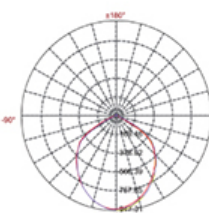


Illuminance at a Distance

Center Beam LUX	Beam Width V	Beam Width H
168.87 LUX	4.7m	4.8m
37.17 LUX	9.4m	9.2m
16.52 LUX	14.1m	13.8m
9.29 LUX	18.8m	18.4m
5.95 LUX	23.5m	23.0m
4.13 LUX	28.2m	27.6m

Vert Spread 99.2 Horiz Spread 99.0

DRV-CR1-20w



Illuminance at a Distance

Center Beam LUX	Beam Width V	Beam Width H
231.80 LUX	5.0m	4.9m
57.95 LUX	9.9m	9.8m
25.76 LUX	14.9m	14.8m
14.49 LUX	19.9m	19.7m
9.27 LUX	24.9m	24.6m
6.44 LUX	29.9m	29.5m

Vert Spread 102.4 Horiz Spread 101.9

DRV-CR1-30w

MODEL NO	REPLACEMENT	DIMENSION W x H (mm.)	CUT OUT (mm)	WATT (w)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)	LIGHT OUTPUT (lx)		
								@2m	@4m	@6m
DRV-CR1-8W-WW	PLC - 1 x 13w	132x85	120	8	680	3000	70	54	13	6
DRV-CR1-8W-NW	PLC - 1 x 13w	132x85	120	8	680	4000	70	54	13	6
DRV-CR1-10W-WW	PLC - 1 x 18w	165x95	150	10	850	3000	70	83	20	9
DRV-CR1-10W-NW	PLC - 1 x 18w	165x95	150	10	850	4000	70	83	20	9
DRV-CR1-20W-WW	PLC - 2 x 18w	190x110	175	20	1700	3000	70	148	37	16
DRV-CR1-20W-NW	PLC - 2 x 18w	190x110	175	20	1700	4000	70	148	37	16
DRV-CR1-30W-WW	PLC - 2 x 42w	230x110	215	30	2600	3000	70	231	58	14
DRV-CR1-30W-NW	PLC - 2 x 42w	230x110	215	30	2600	4000	70	231	58	14



DRV-CS1

COB LED Square Recessed Downlight



LED Downlight is a low cost lighting typically for commercial lighting applications. It has the advantages over a traditional compact fluorescent lamp (CFL) especially longer life hours, more energy saving, and more ecologically friendly.

ADVANTAGES

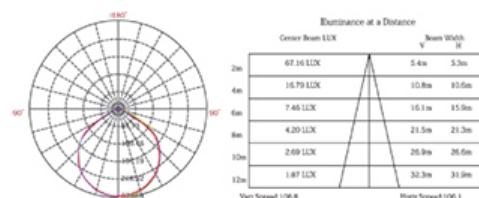
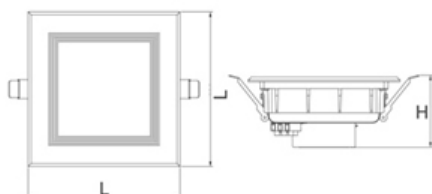
- 2x longer life hours
- 80% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & leads free

FEATURES

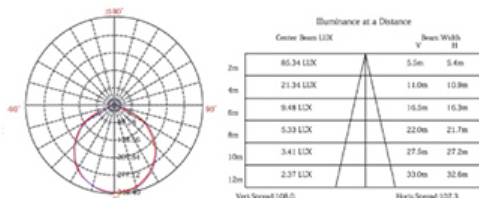
- LED Brand / Type: COB Sharp LED
- Housing: Aluminium
- Optics: Glass
- Dimmable: Non Dimmable
- Working Voltage: 100 - 240VAC
- Operating Temperature: -20°C - +65°C
- Life Span: 30,000 hrs
- Warranty: 2 years

APPLICATION

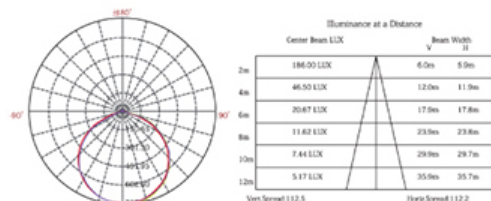
- Widely used in showrooms, shops, department stores, shopping malls, etc.



DRV-CS1-10w



DRV-CS1-20w



DRV-CS1-30w

MODEL NO	REPLACEMENT	DIMENSION W x H (mm.)	CUT OUT (mm)	WATT (w)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)	LIGHT OUTPUT (lx)		
								@2m	@4m	@6m
DRV-CS1-8W-WW	PLC - 1 x 13w	132x85	120	8	680	3000	70	54	13	6
DRV-CS1-8W-NW	PLC - 1 x 13w	132x85	120	8	680	4000	70	54	13	6
DRV-CS1-10W-WW	PLC - 1 x 18w	165x95	150	10	850	3000	70	83	20	9
DRV-CS1-10W-NW	PLC - 1 x 18w	165x95	150	10	850	4000	70	83	20	9
DRV-CS1-20W-WW	PLC - 2 x 18w	190x110	175	20	1700	3000	70	148	37	16
DRV-CS1-20W-NW	PLC - 2 x 18w	190x110	175	20	1700	4000	70	148	37	16
DRV-CS1-30W-WW	PLC - 2 x 42w	230x110	215	30	2600	3000	70	231	58	14
DRV-CS1-30W-NW	PLC - 2 x 42w	230x110	215	30	2600	4000	70	231	58	14

TRK-LPA

SMD LED Track Light

SMD LED Track light is a high power track light with lower power consumption than traditional HID track light. With patented design of TRK-LPA, it is suitable for commercial use such as shops, showrooms, etc.

ADVANTAGES

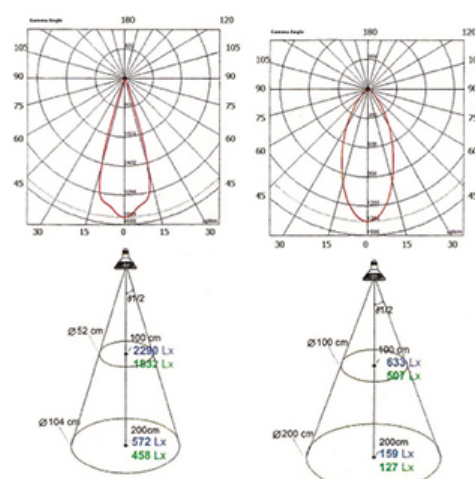
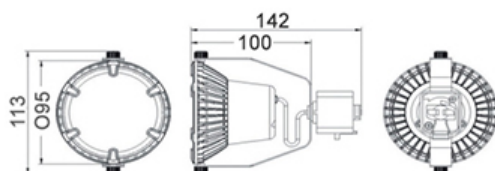
- 2x longer life hours
- 60% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & leads free

FEATURES

- LED Brand / Type: SMD Nichia LED
- Housing: Aluminium (Black, White)
- Adjustable: Vertical 90°, Horizontal 350°
- Beam Angle: 15° / 30° / 45°
- Dimmable: Non Dimmable
- Working Voltage: 90 - 240VAC
- Operating Temperature: -20°C - +40°C
- Life Span: 50,000 hrs
- Warranty: 3 years

APPLICATION

- Widely used in showrooms, shops, department stores, shopping malls, etc.



TRK-LPA-7.5-WW-30

TRK-LPA-7.5-WW-45

MODEL NO	REPLACEMENT	OUTPUT LUMENS (l)	WATT (w)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)
TRK-LPA-7.5W-WW-15	MR16 50w	520	26	680	3000	>70
TRK-LPA-7.5W-NW-15	MR16 50w	416	26	680	5200	>75
TRK-LPA-7.5W-WW-30	MR16 50w	600	37	850	3000	>70
TRK-LPA-7.5W-NW-30	MR16 50w	480	37	850	5200	>75
TRK-LPA-7.5W-WW-45	MR16 50w	467	50	1700	3000	>70
TRK-LPA-7.5W-NW-45	MR16 50w	373	50	1700	5200	>75

TRK-L60

SMD LED Track Light

SMD LED Track light is a high power track light with lower power consumption than traditional HID track light. With patented design of TRK-L60, it is suitable for commercial use such as shops, showrooms, etc.



ADVANTAGES

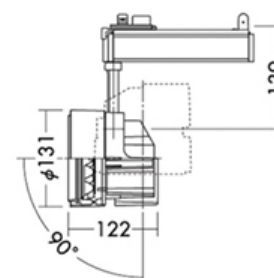
- 2x longer life hours
- 60% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & leads free

FEATURES

- LED Brand / Type: SMD LED
- Housing: Aluminium (Black, White)
- Adjustable: Vertical 90°, Horizontal 350°
- Beam Angle: 11° / 17° / 25°
- Dimmable: Non Dimmable
- Working Voltage: 100 - 240VAC
- Operating Temperature: -20°C - +40°C
- Life Span: 50,000 hrs
- Warranty: 3 years

APPLICATION

- Widely used in showrooms, shops, department stores, shopping malls, etc.



MODEL NO	REPLACEMENT	WATT (w)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)
TRK-L60-26W-WW	CDM-R 35w	26	1700	3000	>83
TRK-L60-26W-NW	CDM-R 35w	26	1700	5000	>83
TRK-L60-37W-WW	-	37	2830	3000	>83
TRK-L60-37W-NW	-	37	2830	5000	>83
TRK-L60-50W-WW	CDM-R 70w	50	3370	3000	>83
TRK-L60-50W-NW	CDM-R 70w	50	3370	5000	>83

TRK-423

COB Track Light Luminaire

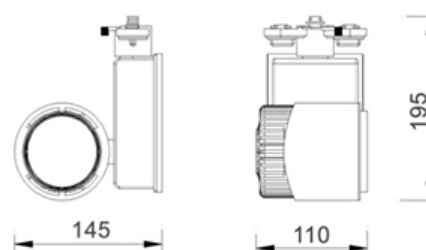
COB LED Track light is a high power track light with lower power consumption than traditional HID track light. With patented design of TRK-423, it is suitable for commercial use such as shops, showrooms, etc.

FEATURES

- LED Chip: SHARP COB
- Housing: Extruded aluminium
- IP Rating: IP20.
- Working Voltage: 220V DC, 50Hz
- Working Temperature: -20°C - 65°C
- Life Span: 25,000 hrs

APPLICATION

- Widely used in commercial and interior decoration in medium or high areas, to highlight a specific area or objects.



MODEL NO	REPLACEMENT	WATT (w)	DIMENSION (mm)	POWER FACTOR (PF)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)	BEAM ANGLE
TRK-423-23W-WW	CDM-T 35w	23	145 x 195 x 105	>90	1955	3000	70	25
TRK-423-23W-NW	CDM-T 35w	23	145 x 195 x 105	>90	1955	4000	70	25
TRK-423-33W-WW	CDM-T 70w	33	145 x 195 x 105	>90	2805	3000	70	25
TRK-423-33W-NW	CDM-T 70w	33	145 x 195 x 105	>90	2805	4000	70	25
TRK-423-50W-WW	-	50	145 x 195 x 105	>90	4250	3000	70	25
TRK-423-50W-NW	-	50	145 x 195 x 105	>90	4250	4000	70	25
TRK-423-60W-WW	CDM-T 150w	60	145 x 195 x 105	>90	5100	3000	70	25
TRK-423-60W-NW	CDM-T 150w	60	145 x 195 x 105	>90	5100	4000	70	25

Patent Product



TRK-343

COB Track Light Luminaire

COB LED Track light is a high power track light with lower power consumption than traditional HID track light. With patented design of TRK-343, it is suitable for commercial use such as shops, showrooms, etc.

FEATURES

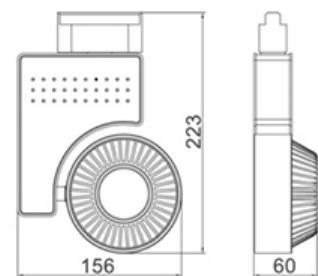
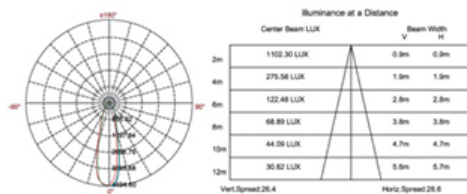
- LED Chip: SHARP COB
- Housing: Extruded aluminium
- IP Rating: IP20.
- Working Voltage: 220V DC, 50Hz
- Working Temperature: -20°C - 65°C
- Life Span: 25,000 hrs



APPLICATION

- Widely used in commercial and interior decoration in medium or high areas, to highlight a specific area or objects.

MODEL: TRK-343-23W-WWW



MODEL NO	REPLACEMENT	WATT (w)	POWER FACTOR (PF)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)	BEAM ANGLE
TRK-343-23W-WWW	CDM-T 35w	23	>90	2000	3000	82	24
TRK-343-23W-NW	CDM-T 35w	23	>90	2000	4000	82	24
TRK-343-33W-WWW	CDM-T 70w	33	>90	2800	3000	82	24
TRK-343-33W-NW	CDM-T 70w	33	>90	2800	4000	82	24
TRK-343-40W-WWW	-	40	>90	3000	3000	82	24
TRK-343-40W-NW	-	40	>90	3000	4000	82	24



RBN-60/20

SMD LED Ribbon Light

LED Ribbon is a low voltage super bright LED lighting in a flexible thin PCB strip. This LED ribbon uses super flexible PCB board as a base and adopts chips RGB LED as it's luminous body. Designed for the lighting professional, this lighting can be used for architectural lighting sign letter light, concealed lighting perimeter lighting and many other applications. The base is flat and flexible and can be easily mount onto most flat surfaces.

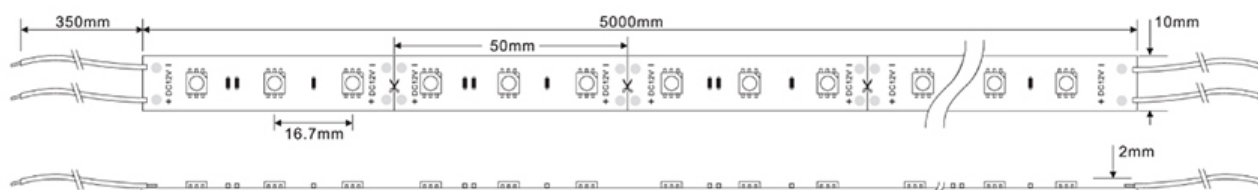


FEATURES

- LED Chip: 5050 (3-in-1 chip or RGB chip)
- Beam Angle: 120 Degree
- Housing: PVC Encapsulation
- Base: 3M adhesive tape on backside
- IP Rating: IP20
- Cuttable Length: 50mm. (every 3 pcs LED)
- Working Voltage: 12V DC
- Working Temperature: -40°C - 55°C
- Working Humidity: 10% - 90%
- Life Span: 50,000 hrs

APPLICATION

- Widely used in architectural and interior decorative to highlight areas, in a concealed cove, or cabinet lighting.



MODEL NO	COLOR	LED Qty (per meter)	LIGHT OUTPUT (mcd)	LIGHT OUTPUT (Lumen/m)	WATT (w/m)	COLOR TEMP. (Kelvin)	Package
RBN-60-20-5050-RGB3	RGB	60	30 x 1500	510	14.4	-	5 meter / reel
RBN-60-20-5050-WW3	Warm White	60	30 x 850	480-840	14.4	2700 - 3500	5 meter / reel
RBN-60-20-5050-DL3	Day White	60	30 x 1200	600-960	14.4	6000 - 7000	5 meter / reel
RBN-60-20-5050-GR3	Green	60	30 x 650	720	14.4	515 - 525	5 meter / reel
RBN-60-20-5050-BL3	Blue	60	30 x 250	450	14.4	465 - 475	5 meter / reel
RBN-60-20-5050-YL3	Yellow	60	30 x 600	360	14.4	585 - 595	5 meter / reel
RBN-60-20-5050-RD3	Red	60	30 x 600	360	14.4	620 - 630	5 meter / reel



RBN-60/54

SMD LED Ribbon Light

LED Ribbon is a low voltage super bright LED lighting in a flexible thin PCB strip. This LED ribbon uses super flexible PCB board as a base and adopts chips RGB LED as it's luminous body. Designed for the lighting professional, this lighting can be used for architectural lighting, sign letter light, concealed lighting perimeter lighting and many other applications. The base is flat and flexible and can be easily mount onto most flat surfaces.



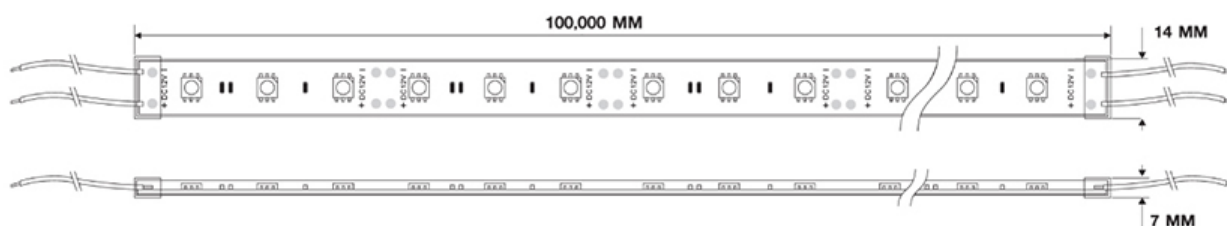
FEATURES

- LED Chip: 5050 (3-in-1 chip or RGB chip)
- Beam Angle: 120 Degree
- Housing: PVC Encapsulation
- IP Rating: IP54
- Cuttable Length: 1000mm.
- Working Voltage: 220V DC
- Working Temperature: -40°C - 55°C
- Working Humidity: 10% - 90%
- Life Span: 50,000 hrs

APPLICATION

- Widely used in architectural and interior decorativeto highlight areas, in a concealed cove, or cabinet lighting.

Model no: RBN-60-A1



MODEL NO	COLOR	LED Qty (per meter)	LIGHT OUTPUT (mcd)	LIGHT OUTPUT (Lumen/m)	WATT (w/m)	COLOR TEMP. (Kelvin)	Package
RBN-60-54-5050-RGB3	RGB	60	30 x 1500	510	14.4	-	100 meter / reel
RBN-60-54-5050-WW3	Warm White	60	30 x 850	480-840	14.4	2700 - 3500	100 meter / reel
RBN-60-54-5050-DL3	Day White	60	30 x 1200	600-960	14.4	6000 - 7000	100 meter / reel
RBN-60-54-5050-GR3	Green	60	30 x 650	720	14.4	515 - 525	100 meter / reel
RBN-60-54-5050-BL3	Blue	60	30 x 250	450	14.4	465 - 475	100 meter / reel
RBN-60-54-5050-YL3	Yellow	60	30 x 600	360	14.4	585 - 595	100 meter / reel
RBN-60-54-5050-RD3	Red	60	30 x 600	360	14.4	620 - 630	100 meter / reel



RBN-60/68

SMD LED Ribbon Light

LED Ribbon is a low voltage super bright LED lighting in a flexible thin PCB strip. This LED ribbon uses super flexible PCB board as a base and adopts chips RGB LED as it's luminous body. Designed for the lighting professional, this lighting can be used for architectural lighting, sign letter light, concealed lighting perimeter lighting and many other applications. The base is flat and flexible and can be easily mount onto most flat surfaces.

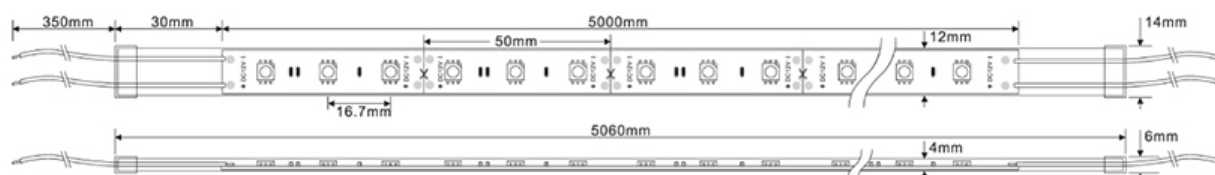
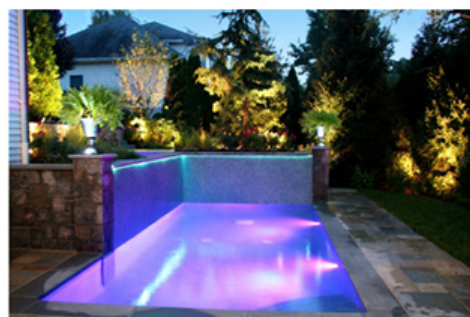


FEATURES

- LED Chip: 5050 (3-in-1 chip or RGB chip)
- Beam Angle: 120 Degree
- Housing: PVC Encapsulation
- Base: 3M adhesive tape on backside
- IP Rating: IP68
- Cutable Length: 50mm. (every 3 pcs LED)
- Working Voltage: 12V DC
- Working Temperature: -40°C - 55°C
- Working Humidity: 10% - 90%
- Life Span: 50,000 hrs

APPLICATION

- Widely used in architectural and interior decorativeto highlight areas, in a concealed cove, or cabinet lighting.



MODEL NO	COLOR	LED Qty (per meter)	LIGHT OUTPUT (mcd)	LIGHT OUTPUT (Lumen/m)	WATT (w/m)	COLOR TEMP. (Kelvin)	Package
RBN-60-68-5050-RGB3	RGB	60	30 x 1500	510	14.4	-	5 meter / reel
RBN-60-68-5050-WW3	Warm White	60	30 x 850	480-840	14.4	2700 - 3500	5 meter / reel
RBN-60-68-5050-DL3	Day White	60	30 x 1200	600-960	14.4	6000 - 7000	5 meter / reel
RBN-60-68-5050-GR3	Green	60	30 x 650	720	14.4	515 - 525	5 meter / reel
RBN-60-68-5050-BL3	Blue	60	30 x 250	450	14.4	465 - 475	5 meter / reel
RBN-60-68-5050-YL3	Yellow	60	30 x 600	360	14.4	585 - 595	5 meter / reel
RBN-60-68-5050-RD3	Red	60	30 x 600	360	14.4	620 - 630	5 meter / reel



BAR-60

SMD LED Aluminium Bar

LED Bar is a low voltage super bright LED lighting in an aluminium case for ease of installation. The LED bar uses slim PCB board as a base and adopts chips RGB LED as it's luminous body. Designed for the lighting professional, this lighting can be used for architectural lighting sign letter light, concealed lighting perimeter lighting and many other applications.

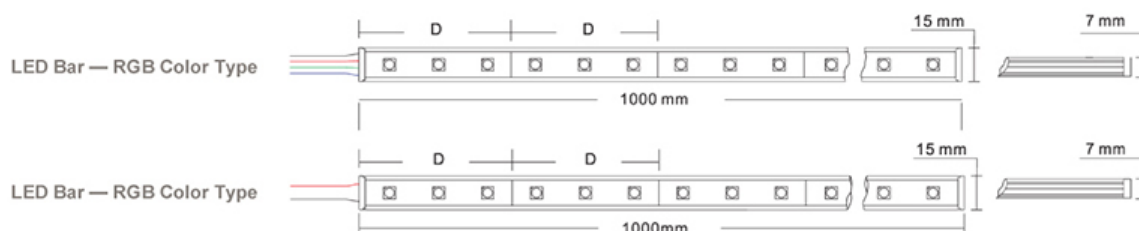


FEATURES

- LED Chip: 5050 (3-in-1 chip or RGB chip)
- Beam Angle: 120 Degree
- Housing: Extruded aluminium
- IP Rating: IP65
- Cutable Length: 50mm. (every 3 pcs LED)
- Working Voltage: 12V DC
- Working Temperature: -40°C - 55°C
- Working Humidity: 10% - 90%
- Life Span: 50,000 hrs

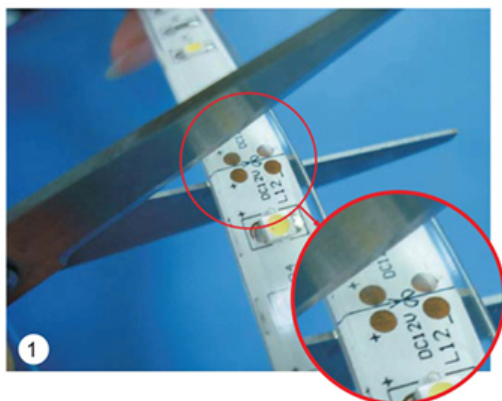
APPLICATION

- Widely used for decorative highlight areas such as in concealed cove, or cabinet lighting.

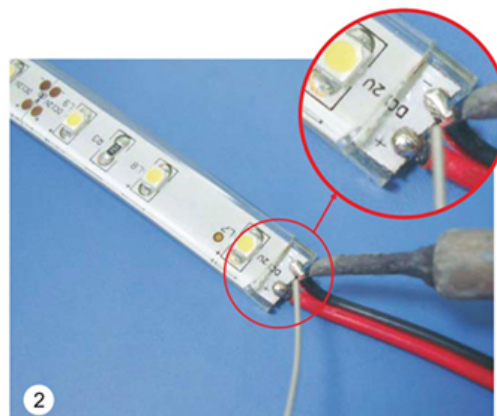


MODEL NO	COLOR	LED Qty (per meter)	LIGHT OUTPUT (Lumen/m)	WATT (w/m)	COLOR TEMP. (Kelvin)
BAR-60-20-5050-RGB3	RGB	60	510	14.4	-
BAR-60-20-5050-WW3	Warm White	60	120-1080	14.4	2700 - 3500
BAR-60-20-5050-DL3	Day White	60	72-1170	14.4	6000 - 7000
BAR-60-20-5050-GR3	Green	60	900	14.4	515 - 525
BAR-60-20-5050-BL3	Blue	60	720	14.4	465 - 475
BAR-60-20-5050-YL3	Yellow	60	450	14.4	585 - 595
BAR-60-20-5050-RD3	Red	60	360	14.4	620 - 630

How to cut and rejoin the LED ribbon



1. Cut the LED Ribbon at the cutting line.



2. Rejoin the cables to the ribbon by soldering,
CAUTION: please do not reverse the polarity

DIM-RF-2

Dimmer Driver with Remote Control



SPECIFICATION

- RF 2.4 GHz
- Dimmer
- Wireless intuitive touch remote control
- Receiving Range: 30m.
- Working voltage : 12VDC 24VDC
- Working Current : 6V / circuit
- Dimension : 85 x 45 x 22 mm.

HOW TO USE

1. Use your finger to slice along the color ring to adjust the brightness from the highest to the lowest (100%-1%, 50 grades to adjust)
2. Resume function. The previous settings will be resumed while power on again.
3. Matching code. Press Key 3 once within 3 seconds when power on again, the light will blink 3 times if matching is successful.
4. Clearing Code. Press 3 five times within 3 seconds when power on again, the light will blink 6 times if clearing is successful.

TR12-MW

Dimmer Driver with Remote Control

MODEL NO	RATING	DIMENSION
TR12-MW-50	12V DC 50W	129 x 98 x 38
TR12-MW-100	12V DC 100W	159 x 98 x 38
TR12-MW-150	12V DC 150W	199 x 98 x 38



MW
 MEAN WELL
 1 Yr Warranty

LED WIFI Control System



Working Platform : IOS System

Features :

As the Internet has become a global communication tools, intelligent control will be into the trend of the development of the society, which control software can be running on apple IOS system. It is only need to open the lamps set, then open the software on your phone. it can control the light at any time, simply operation, easy using. It is the ideal intelligent products.

The Product has the following characteristics

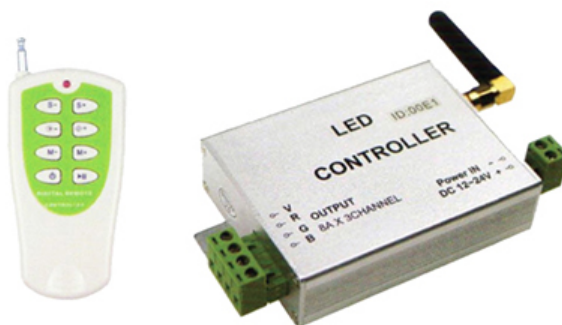
1. Can be used in all kinds of lamps. Can control single lamp or multi-lamps
2. Networking support for routing mode and peer-to-peer mode, IEEE802.11 standards protocol.
3. Can set the IP Address to the lamps, and switch freely between the routing mode and peer-to-peer. Adopting the TCP/IP Protocol information transmission.
4. Under the mode of scene lamps, you can apply the color you want, under the dimming mode, you can adjust the brightness.
5. Set color for each day of a week and set mode or default color, and the control console will judge which day it is and show out the color you set.
6. With the power-off memory functions, it can memorized the status before power-off

LED-CON-RF

RGB Remote Controller / GGB Manual Controller

Features :

Working Voltage:	12VDC—24 VDC
Rated Current:	8A×3 CHANNEL
Rated Power:	288W (12VDC), 576W (24VDC)
Working Temperature:	-20 - 60°C
Measurement:	120x62x24mm / 112x65x24mm





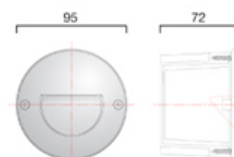
STP-350

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K, 6500K, Red, Green Blue
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



LED
1.4W



STP-360

Wallmount Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K, 6500K, Red, Green Blue
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



LED
1.4W



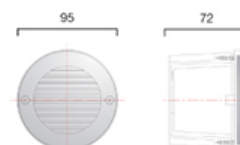
STP-370

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K, 6500K, Red, Green Blue
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



LED
1.4W



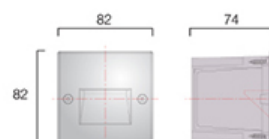
STP-380

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K, 6500K, Red, Green Blue
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



LED
1.4W

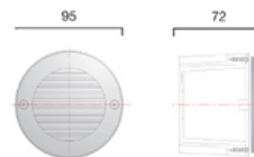




STP-L11

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



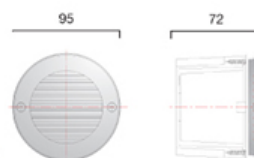
LED
1.4W



STP-L12

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



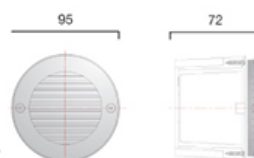
LED
1.4W



STP-L13

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



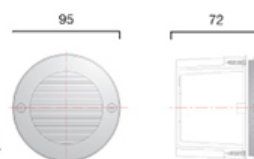
LED
1.4W



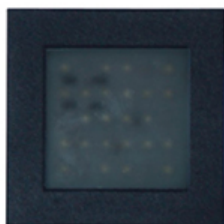
STP-L18

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



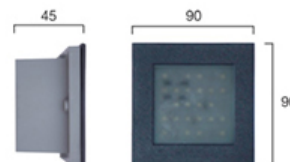
LED
1.4W



STP-290

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



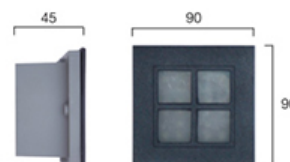
LED
1.4W



STP-300

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



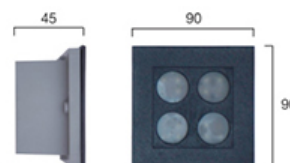
LED
1.4W



STP-301

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



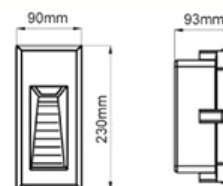
LED
1.4W



STP-L14

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



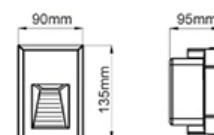
LED
1.4W



STP-L15

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



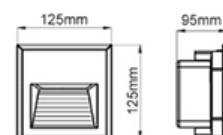
LED
1.4W



STP-L16

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



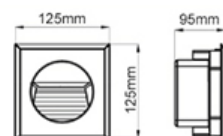
LED
1.4W



STP-L17

LED Step Light Luminaire

- **Housing:** Die-cast aluminium housing
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (Warm White)
- **Driver:** External driver
- Suitable for general decoration such as pathway, walk way, etc.



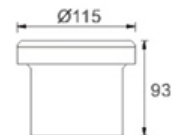
LED
1.4W



ING-L04

LED Inground Luminaire

- **Housing:** Die-cast aluminium housing
- **Frame:** Stainless steel 304 from
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (WW), 6400K (DL)
- **Voltage:** 220VAC
- Suitable for under water applications



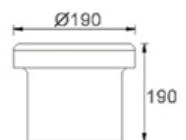
LED
5W



ING-L05

LED Inground Luminaire

- **Housing:** Die-cast aluminium housing
- **Frame:** Stainless steel 304 from
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (WW), 6400K (DL)
- **Driver:** Use with 12VAC external driver
- Suitable for under water applications



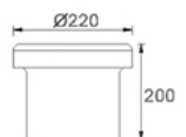
LED
10W



ING-L06

LED Inground Luminaire

- **Housing:** Die-cast aluminium housing
- **Frame:** Stainless steel 304 from
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (WW), 6400K (DL), Red, Green, Blue, Yellow, Mix
- **Driver:** Use with 24VAC external driver
- Suitable for under water applications



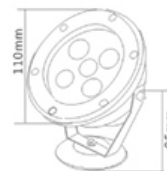
LED
15W



SBM-815

LED Under Water Luminaire

- **Housing:** Stainless steel housing
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (WW), 6400K (DL)
- **Driver:** Use with 24VAC external driver
- **Adjustable:** Virtically adjustable
- **Suitable for under water application s**



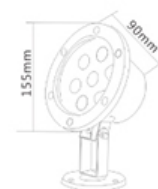
LED
5W



SBM-816

LED Under Water Luminaire

- **Housing:** Stainless steel housing
- **Gasket:** Stainless steel all external screws
- **Color:** 3000K (WW), 6400K (DL), Red, Green, Blue, Yellow, Mix
(Color LED only available for 15w.)
- **Driver:** Use with 24VAC external driver
- **Adjustable:** Virtically adjustable
- **Suitable for under water application s**



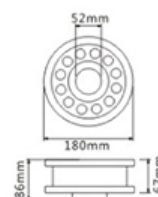
LED
10W / 15W



SBM-817

LED Under Water Luminaire

- **Housing:** Die-cast aluminium housing
- **Frame:** Stainless steel 304 from
- **Gasket:** Stainless steel all external screws
- **Gasket:** Waterproof 3m cable
- **Color:** 3000K (WW), 6400K (DL), Red, Green, Blue, Yellow, Mix
- **Driver:** Use with 24VAC external driver
- **Suitable for under water application s**



LED
15W



HBA-001-1

LED High Bay



LED High Bay lighting is suitable for industrial applications. It has the advantages over a traditional HID high bay especially longer life hours, more energy saving, and more ecologically friendly.

ADVANTAGES

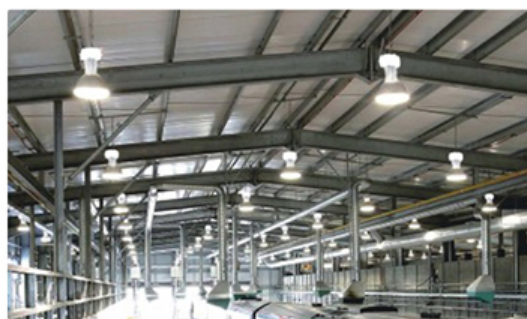
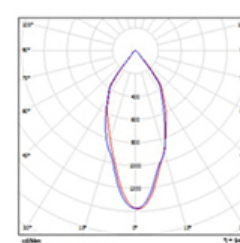
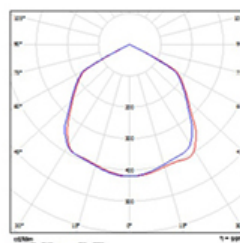
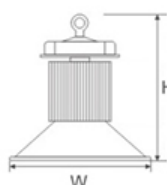
- 2x longer life hours
- 50% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & lead free

FEATURES

- LED Brand / Type: Brightlux / COB LED 1pc 45 x 45mm.
- Driver: Meanwell
- Reflector: Anodized aluminium reflector
- Working Voltage: 100 - 240VAC
- Operating Temperature: -40°C - +55°C
- Life Span: 50,000 hrs
- Warranty: 2 years

APPLICATION

- Widely used in factories, warehouses, stadium, halls, etc



MODEL NO	DIMENSION W x H (mm.)	WATT (w)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)	BEAM ANGLE	LIGHT OUTPUT (lx avg)		
							@6m	@8m	@10m
HBA-001-1-120W845-45	500 x 465	120	8,000	4500	75	45	182	173	166
HBA-001-1-120W665-45	500 x 465	120	8,000	6500	75	45	182	173	166
HBA-001-1-120W845-120	500 x 465	120	8,000	4500	75	120	180	169	159
HBA-001-1-120W665-120	500 x 465	120	8,000	6500	75	120	180	169	159
HBA-001-1-150W845-45	500 x 500	150	12,750	4500	75	45	296	282	271
HBA-001-1-150W665-45	500 x 500	150	12,750	6500	75	45	296	282	271
HBA-001-1-150W845-120	500 x 500	150	12,750	4500	75	120	295	377	361
HBA-001-1-150W665-120	500 x 500	150	12,750	6500	75	120	295	377	361
HBA-001-1-200W845-45	495 x 565	200	20,000	4500	75	45	383	365	349
HBA-001-1-200W665-45	500 x 565	200	20,000	6500	75	45	383	365	349
HBA-001-1-200W845-120	500 x 565	200	20,000	4500	75	120	384	361	339
HBA-001-1-200W665-120	500 x 565	200	20,000	6500	75	120	384	361	339



CNS-001-1

LED Square High Bay



LED High Bay lighting is suitable for industrial applications. It has the advantages over a traditional HID high bay especially longer life hours, more energy saving, and more ecologically friendly.

ADVANTAGES

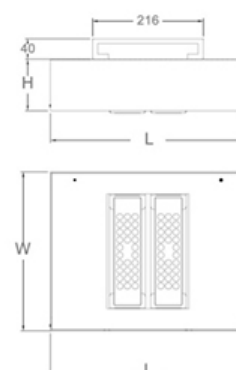
- 2x longer life hours
- 50% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & lead free

FEATURES

- LED Brand / Type: OSRAM / LED Module 60w
- Driver: OSRAM
- Housing: Cold-rolled steel
- Working Voltage: 100 - 240VAC
- Operating Temperature: -30°C - +90°C
- Life Span: 50,000 hrs
- Warranty: 2 years

APPLICATION

- Widely used in factories, warehouses, stadium, halls, etc



MODEL NO	REPLACEMENT	DIMENSION L x W x H (mm.)	WATT (w)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)
CNS-001-1-60W840	Metal Halide 150w	310 x 310 x 100	60	2700	4000	70
CNS-001-1-60W865	Metal Halide 150w	310 x 310 x 100	60	3400	6500	70
CNS-001-1-120W840	Metal Halide 250w	380 x 310 x 100	120	5400	4000	70
CNS-001-1-120W865	Metal Halide 250w	380 x 310 x 100	120	6800	6500	70
CNS-001-1-180W840	Metal Halide 360w	470 x 310 x 100	180	8100	4000	70
CNS-001-1-180W865	Metal Halide 360w	470 x 310 x 100	180	10200	6500	70
CNS-001-1-240W840	Metal Halide 400w	540 x 310 x 100	240	10800	4000	70
CNS-001-1-240W865	Metal Halide 400w	540 x 310 x 100	240	13600	6500	70



FLD-001

COB LED Flood Light

Floodlight is a typically lighting for industrial applications such as billboard, wide area light, architectural lighting, etc. However, LED floodlight has the advantages over a traditional HID floodlight especially longer life hours, more energy saving, and more ecologically friendly.

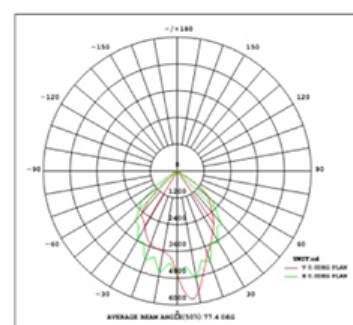


ADVANTAGES

- 2x longer life hours
- 50% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & lead free

FEATURES

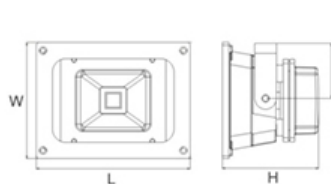
- LED Brand / Type: Brightlux / COB LED
- Driver: Meanwell
- Housing: Aluminium body with glass cover
- Working Voltage: 85 - 265VAC
- Total harmonic Dist: THD<8%
- Operating Temperature: -20°C - +50°C
- Angle Beam: 110° - 120°
- Life Span: >50,000 hrs
- Warranty: 2 years



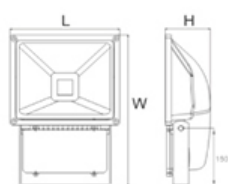
FLD-001-2-100w

APPLICATION

- Widely used in architectural lighting, billboards, stadiums, gymnasium, etc.



FLD-001-1



FLD-001-2



MODEL NO	REPLACEMENT	WATT (w)	DIMENSION W x L x H (mm.)	POWER FACTOR (PF)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)
FLD-001-1-20W	HPI - 60w	10W	185 x 225 x 155	0.95	1800	Warm:White	75
FLD-001-1-30W	HPI - 90w	30W	235 x 285 x 185	0.95	3000	2700-3500K	75
FLD-001-1-50W	HPI - 150w	50W	290 x 370 x 190	0.95	4500	Neutral White:	75
FLD-001-1-80W	HPI - 230w	80W	290 x 370 x 190	0.95	7200	4500-5500K	75
FLD-001-2-100W	HPI - 250w	100W	395 x 286 x 118	0.95	9000	Cool White:	75
FLD-001-2-120W	HPI - 300w	120W	395 x 286 x 118	0.95	12000	6000-6500K	75



STAL

LED Street Light

LED Street lighting is a wide-used applications. It has the advantages over a traditional fluorescent lamp especially longer life hours, more energy saving, and more ecologically friendly.



ADVANTAGES

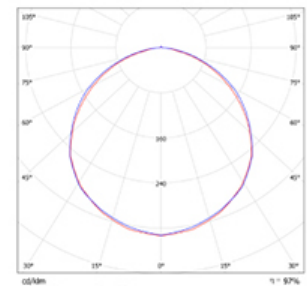
- 2x longer life hours
- 60% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & lead free

FEATURES

- Driver: PHILIPS
- Housing: Aluminium housing
- Diffuser: Clear polycarbonate
- Working Voltage: 100 - 270VAC
- Operating Temperature: -30°C - +45°C
- Life Span: 35,000 hrs
- Warranty: 2 years

APPLICATION

- Widely used for street, local road, pathway, etc.



STAL-40



MODEL NO	REPLACEMENT	WATT (w)	DIMENSION W x L x H (mm.)	POWER FACTOR (PF)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)
STAL-20	1 x T8 36w.	LED Module - 21w	345 x 675 x 170	>95	3900	6500	>80
STAL-40	2 x T8 36w.	LED Module - 42w	349 x 743 x 163	>95	12100	6500	>80



CNP-L01

LED Street Light



LED Street lighting is suitable for area applications. It has the advantages over a traditional HID high bay especially longer life hours, more energy saving, and more ecologically friendly.

ADVANTAGES

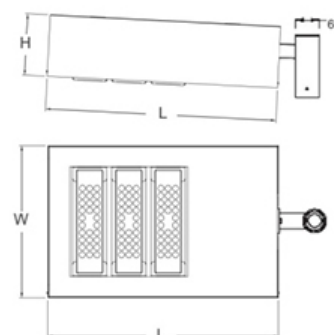
- 2x longer life hours
- 50% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & lead free

FEATURES

- LED Brand / Type: OSRAM / LED Module 60w
- Driver: OSRAM
- Housing: Cold-rolled steel
- Working Voltage: 100 - 240VAC
- Operating Temperature: -30°C - +90°C
- Life Span: 50,000 hrs
- Warranty: 2 years

APPLICATION

- Widely used for street, highway, area lighting.



MODEL NO	REPLACEMENT	DIMENSION L x W x H (mm.)	WATT (w)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)
CNP-L01-1-60W840	Metal Halide 150w	220 - 335 x 160	60	2700	4000	70
CNP-L01-1-60W865	Metal Halide 150w	220 - 335 x 160	60	3400	6500	70
CNP-L01-1-120W840	Metal Halide 250w	290 x 335 x 160	120	5400	4000	70
CNP-L01-1-120W865	Metal Halide 250w	290 x 335 x 160	120	6800	6500	70
CNP-L01-1-180W840	Metal Halide 360w	470 x 415 x 160	180	8100	4000	70
CNP-L01-1-180W865	Metal Halide 360w	470 x 415 x 160	180	10200	6500	70
CNP-L01-1-240W840	Metal Halide 400w	550 x 416 x 160	240	10800	4000	70
CNP-L01-1-240W865	Metal Halide 400w	550 x 415 x 160	240	13600	6500	70



STH-901

LED Street Light

LED Street lighting is a wide-used applications. It has the advantages over a traditional HID street light especially longer life hours, more energy saving, and more ecologically friendly. Also, STH-901 series is adjustable for best light output angle to your application.



ADVANTAGES

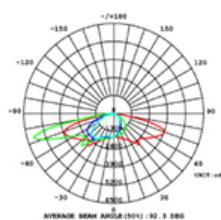
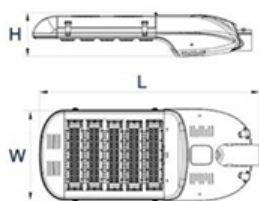
- 2x longer life hours
- 50% saving on energy consumption
- No UV, no IR, no CO₂, no Mercury & lead free

FEATURES

- LED Brand / Type: Cree
- Driver: Meanwell
- Housing: Aluminium alloy housing
- Working Voltage: 100 - 270VAC
- Operating Temperature: -30°C - +45°C
- Life Span: 50,000 hrs
- Warranty: 2 years

APPLICATION

- Widely used for street, highway, area lighting.



MODEL NO	TYPE	DIMENSION W x L x H (mm.)	WATT (w)	POWER FACTOR (PF)	LUMINOUS FLUX (Lumen)	COLOR TEMP. (Kelvin)	CRI (Ra)	ILLUMINANCE SCOPE		
								8m	10m	12m
STH-901-120W	IV Long	345 x 675 x 170	120	>95	3900	4000	>70	25.8 lx 14 x 60m	16.5 lx 17 x 75m	11.5 lx 20 x 90m
STH-901-150W	IV Long	349 x 743 x 163	150	>95	12100	4000	>70	36.3 lx 14 x 60m	23.2 lx 17 x 75m	16.1 lx 20 x 90m
STH-901-200W	IV Long	349 x 826 x 163	200	>95	15500	4000	>70	46.4 lx 14 x 69m	29.7 lx 17 x 75m	20.6 lx 20 x 90m
STH-901-240W	IV Long	350 x 890 x 92	240	>95	18800	4000	>70	53.9 lx 14 x 60m	34.5 lx 17 x 75m	23.9 lx 20 x 90m



LWW-001

LED Wall Washer

LED Wall washer is most popular for architectural lighting like façade lighting. It help create dynamic and movement for rigid structure with low energy consumption. It can be controlled to color switching, fading, flashing when using with DMX controller.



FEATURES

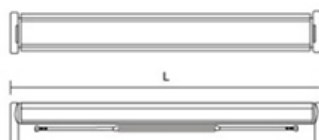
- LED: High-power LED
- Driver: Meanwell
- Housing: Aluminium alloy
- Working Voltage: 100 - 240 VAC
- Operating Temperature: -40°C - +60°C
- Rotary Angle: 180 Degree
- Power Factor: > 0.8
- Warranty: 2 years

WORKING MODE

- Independent Mode: Choose the effects that you need by button on the back of lighting; Master / Slave
- DMX Mode: International standard DMX512 signal control (3XLR or 5XLR)

APPLICATION

- Widely used for architectural light.



MODEL NO	DIMENSION W x L x H (mm.)	LED Quantity	COLOR	BEAM ANGLE	PROJECTION DISTANCE (m)
LWW-001-18	72 x 500 x 76	1 x 18w	R-6, G-6, B-6	25 / 30 / 45 / 60	5 - 8
LWW-001-24	72 x 1000 x 76	1 x 24w	R-8, G-8, B-8	25 / 30 / 45 / 60	8 - 12
LWW-001-36	72 x 1000 x 76	1 x 36w	R-12, G-12, B-12	25 / 30 / 45 / 60	12 - 15



LWW-011

LED Wall Washer

LED Wall washer is most popular for architectural lighting like façade lighting. It help create dynamic and movement for rigid structure with low energy consumption. It can be controlled to color switching, fading, flashing when using with DMX controller.



FEATURES

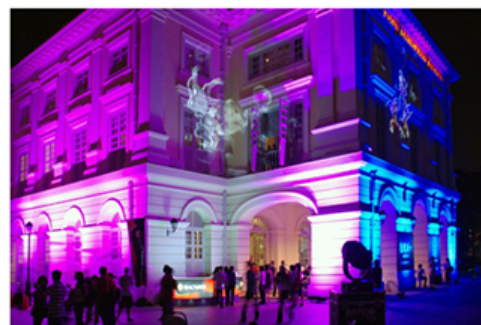
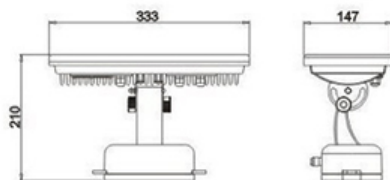
- LED: High-power LED
- Driver: Meanwell
- Housing: Aluminium alloy
- Working Voltage: 90 - 256 VAC
- Operating Temperature: -40°C - +60°C
- Rotary Angle: 180 Degree
- Power Factor > 0.8
- Warranty: 2 years

WORKING MODE

- Independent Mode: Choose the effects that you need by button on the back of lighting; Master / Slave
- DMX Mode: International standard DMX512 signal control (3XLR or 5XLR)

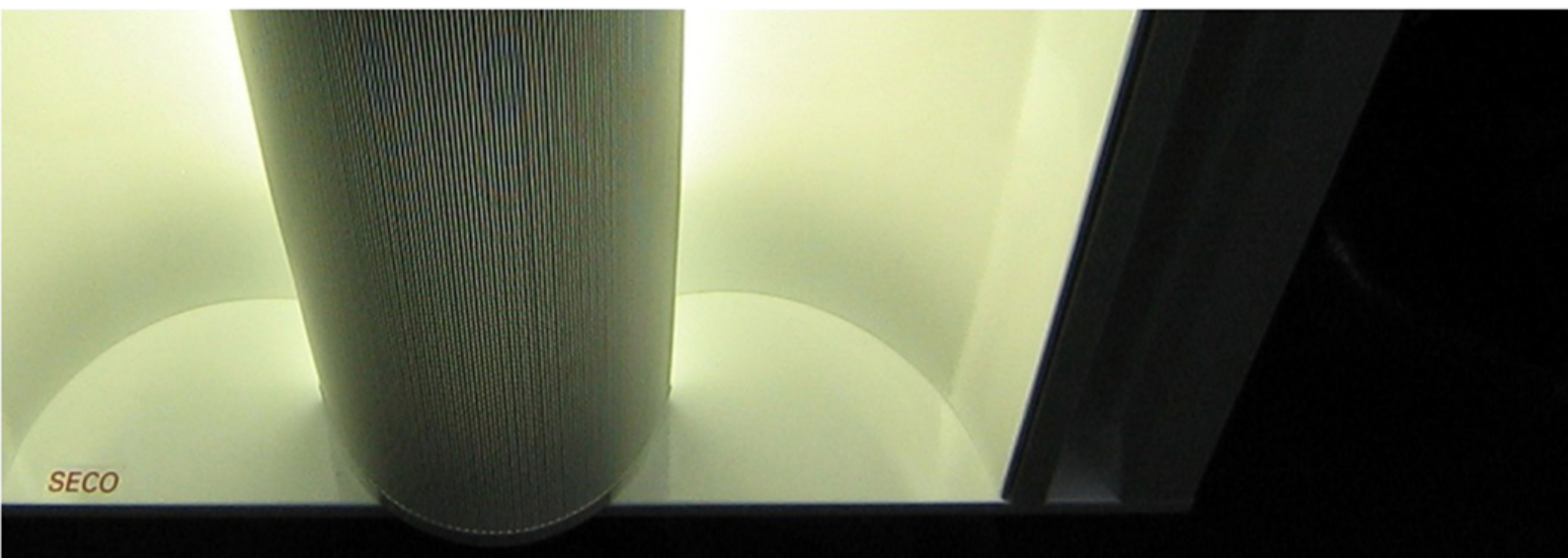
APPLICATION

- Widely used for architectural light.

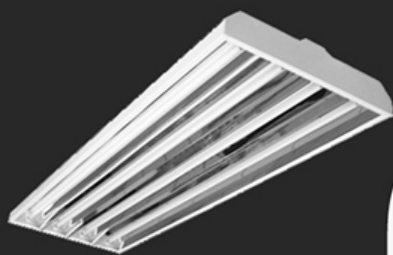


MODEL NO	DIMENSION W x L x H (mm.)	WATT (w)	LED Quantity	COLOR	CURRENT (A)	BEAM ANGLE	PROJECTION DISTANCE (m)
LWW-011-24-25	330 x 147 x 210	36w	1 x 24w	R-8, G-8, B-8	0.22	25	25m
LWW-011-24-45	330 x 147 x 210	36w	1 x 24w	R-8, G-8, B-8	0.22	45	15m
LWW-011-36-25	330 x 147 x 210	48w	1 x 36w	R-12, G-12, B-12	0.15	25	25m
LWW-011-36-45	330 x 147 x 210	48w	1 x 36w	R-12, G-12, B-12	0.15	45	15m

Tailored Solutions



At SECO ... We're challenged everyday with new requirements from our customers. They come to us with even more and more challenge requirements which pushed us through limitations to come out with better solutions and better products to keep our customers satisfied.



02

Fluorescent Luminaires

SECO Fluorescent Luminaires are designed for high efficiency and high quality purpose. Each and every piece of our fixture is finely made and inspected to guarantee customer satisfaction. We are also well-known of designing fixtures for specific requirements.



T&F2-C

T8 Recessed Louver Luminaire

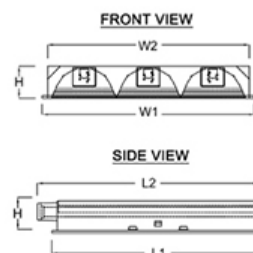


HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G13) lamp holder (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

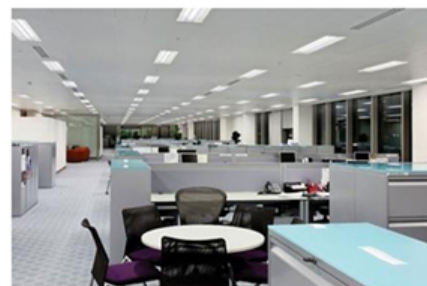
REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage. Optional: TR = 95% (95) for high efficiency purpose.
- 99.85% high purity anodized aluminium louver with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for longitudinal with aluminium profile to anti-glare. Standard 5 blades for 18w. and 10 blades for 36w.
- Louver and profiles are applied to anti-glare.
- Spring-lock type for ease of maintenance.



INSTALLATION & APPLICATION

- For recessed T-bar and gypsum ceiling installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)	REMARK
		L1	L2	W1	W2	H		
T&F2 118 CR	1 x T8 18w.	595	620	200	170	90	575 x 185	
T&F2 118 CBR	1 x T8 18w.	595	620	295	265	90	575 x 275	
T&F2 218 CR	2 x T8 18w.	595	620	295	265	90	575 x 275	
T&F2 218 CBR	2 x T8 18w.	595	620	595	565	90	575 x 575	
T&F2 318 CR	3 x T8 18w.	595	620	595	565	90	575 x 575	
T&F2 418 CR	4 x T8 18w.	595	620	595	565	90	575 x 575	
T&F2 136 CR	1 x T8 36w.	1195	1222	200	170	90	1175 x 185	
T&F2 136 CBR	1 x T8 36w.	1195	1222	295	265	90	1175 x 275	
T&F2 236 CR	2 x T8 36w.	1195	1222	295	265	90	1175 x 275	
T&F2 236 CBR	2 x T8 36w.	1195	1222	595	565	90	1175 x 575	
T&F2 336 CR	3 x T8 36w.	1195	1222	595	565	90	1175 x 575	
T&F2 436 CR	4 x T8 36w.	1195	1222	595	565	90	1175 x 575	

ORDERING DATA: T&F2 236 CBR / T6 / 87
A B

A = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
B = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



S&B2-C

T8 Surface Mounted Louver Luminaire



HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G13) lamp holder (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

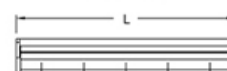
REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage. Optional: TR = 95% (95) for high efficiency purpose.
- 99.85% high purity anodized aluminium louver with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for longitudinal with aluminium profile to anti-glare. Standard 5 blades for 18w. and 10 blades for 36w.
- Louver and profiles are applied to anti-glare.
- Spring-lock type for ease of maintenance.

FRONT VIEW



SIDE VIEW



INSTALLATION & APPLICATION

- For surface mounted or suspension rod installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.



Optional LED Replacement

LED-T8 / G13
10W / 19W

MODEL NO	WATT	DIMENSION (mm.)			REMARK
		L	W	H	
S&B2 118 CR	1 x T8 18w.	615	200	80	
S&B2 118 CBR	1 x T8 18w.	615	295	80	
S&B2 218 CR	2 x T8 18w.	615	295	80	
S&B2 218 CBR	2 x T8 18w.	615	595	80	
S&B2 318 CR	3 x T8 18w.	615	595	80	
S&B2 418 CR	4 x T8 18w.	615	595	80	
S&B2 136 CR	1 x T8 36w.	1245	200	80	
S&B2 136 CBR	1 x T8 36w.	1222	295	80	
S&B2 236 CR	2 x T8 36w.	1222	295	80	
S&B2 236 CBR	2 x T8 36w.	1222	595	80	
S&B2 336 CR	3 x T8 36w.	1222	595	80	
S&B2 436 CR	4 x T8 36w.	1222	595	80	

ORDERING DATA: S&B2 236 CBR / T6 / 87
A B

A = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
B = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



T&F1-P

T8 Recessed Acrylic Diffuser Luminaire



HOUSING

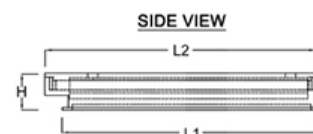
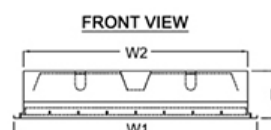
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Rotary-locked type starter holder (TIS Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.
- Lamp holders are available in 2 options.
 T&F1: For heavy duty rotary-locked type (TIS.344-1987 Standard)
 T&S1: For heavy duty spring-locked type (TIS.344-1987 Standard)

REFLECTOR & DIFFUSER

- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage. Optional: Total Reflectance of 95% (95) for high efficiency purpose.
- Spring-lock type frame for ease of maintenance.

INSTALLATION & APPLICATION

- For recessed T-bar and gypsum ceiling installation.
- Recommended for commercial buildings, hospital, laboratories, schools, etc.



Prismatic



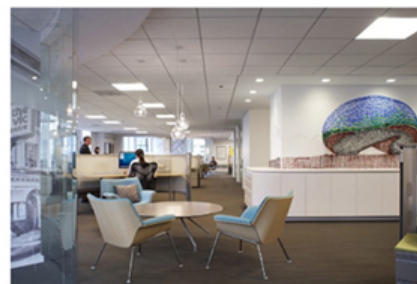
Opal



Clear



Stipple



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)	REMARK
		L1	L2	W1	W2	H		
T&F1 118 PR	1 x T8 18w.	595	620	200	170	100	575 x 185	
T&F1 118 PBR	1 x T8 18w.	595	620	295	265	100	575 x 275	
T&F1 218 PR	2 x T8 18w.	595	620	295	265	100	575 x 275	
T&F1 218 PBR	2 x T8 18w.	595	620	595	565	100	575 x 575	
T&F1 318 PR	3 x T8 18w.	595	620	595	565	100	575 x 575	
T&F1 418 PR	4 x T8 18w.	595	620	595	565	100	575 x 575	
T&F1 136 PR	1 x T8 36w.	1195	1222	200	170	100	1175 x 185	
T&F1 136 PBR	1 x T8 36w.	1195	1222	295	265	100	1175 x 275	
T&F1 236 PR	2 x T8 36w.	1195	1222	295	265	100	1175 x 275	
T&F1 236 PBR	2 x T8 36w.	1195	1222	595	565	100	1175 x 575	
T&F1 336 PR	3 x T8 36w.	1195	1222	595	565	100	1175 x 575	
T&F1 436 PR	4 x T8 36w.	1195	1222	595	565	100	1175 x 575	

ORDERING DATA: T&F1 236 PBR / P / T6 / 87
 A B C D

A = Lamp Holder Type (T&F1 = Rotary-locked type, T&S1 = Spring-locked type)
 B = Acrylic Type (P = Prismatic, M = Opal, O = Stipple, J = Clear)
 C = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
 D = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



S&B1-P

T8 Surface Mounted Acrylic Diffuser Luminaire



HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Rotary-locked type starter holder (TIS Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.
- Lamp holders are available in 2 options.
 S&B1: For heavy duty rotary-locked type (TIS.344-1987 Standard)
 S&S1: For heavy duty spring-locked type (TIS.344-1987 Standard)

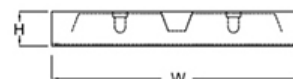
REFLECTOR & LOUVER

- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage. Optional: Total Reflectance of 95% (95) for high efficiency purpose.

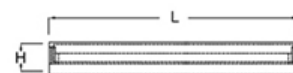
INSTALLATION & APPLICATION

- For surface mounted or suspension rod installation.
- Recommended for commercial buildings, hospital, laboratories, schools, etc.

FRONT VIEW



SIDE VIEW



Prismatic

Opal

Clear

Stipple



MODEL NO	WATT	DIMENSION (mm.)			REMARK
		L	W	H	
S&B1 118 PR	1 x T8 18w.	615	200	82	
S&B1 118 PBR	1 x T8 18w.	615	295	82	
S&B1 218 PR	2 x T8 18w.	615	295	82	
S&B1 218 PBR	2 x T8 18w.	615	595	82	
S&B1 318 PR	3 x T8 18w.	615	595	82	
S&B1 418 PR	4 x T8 18w.	615	595	82	
S&B1 136 PR	1 x T8 36w.	1222	200	82	
S&B1 136 PBR	1 x T8 36w.	1222	295	82	
S&B1 236 PR	2 x T8 36w.	1222	295	82	
S&B1 236 PBR	2 x T8 36w.	1222	595	82	
S&B1 336 PR	3 x T8 36w.	1222	595	82	
S&B1 436 PR	4 x T8 36w.	1222	595	82	

ORDERING DATA: S&B1 236 PBR / P / T6 / 87
 A B C D

A = Lamp Holder Type (S&B1 = Rotary-locked type, S&S1 = Spring-locked type)
 B = Acrylic Type (P = Prismatic, M = Opal, O = Stipple, J = Clear)
 C = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
 D = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



T&F1-W

T8 Recessed Double Parabolic Louver Luminaire



HOUSING

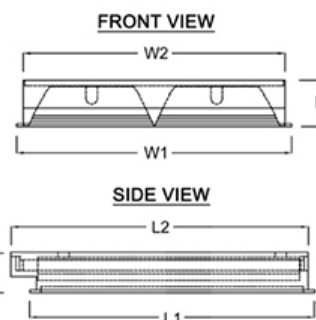
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Rotary-locked type starter holder (TIS Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.
- Lamp holders are available in 2 options.
T&F1: For heavy duty rotary-locked type (TIS.344-1987 Standard)
T&S1: For heavy duty spring-locked type (TIS.344-1987 Standard)

REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage. Optional: TR = 95% (95) for high efficiency purpose.
- 99.85% high purity anodized aluminium louver with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for longitudinal
- 99.85% high purity anodized aluminium cross blade with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) to anti-glare. Standard 2 blades for 18w. and 5 blades for 36w.
- Louver and profiles are applied to anti-glare.
- Transparent spring-lock type for ease of maintenance.

INSTALLATION & APPLICATION

- For recessed T-bar and gypsum ceiling installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)	REMARK
		L1	L2	W1	W2	H		
T&F1 118 WR	1 x T8 18w.	595	620	200	170	90	575 x 185	
T&F1 118 WBR	1 x T8 18w.	595	620	295	265	90	575 x 275	
T&F1 218 WR	2 x T8 18w.	595	620	295	265	90	575 x 275	
T&F1 218 WBR	2 x T8 18w.	595	620	595	565	90	575 x 575	
T&F1 318 WR	3 x T8 18w.	595	620	595	565	90	575 x 575	
T&F1 418 WR	4 x T8 18w.	595	620	595	565	90	575 x 575	
T&F1 136 WR	1 x T8 36w.	1195	1222	200	170	90	1175 x 185	
T&F1 136 WBR	1 x T8 36w.	1195	1222	295	265	90	1175 x 275	
T&F1 236 WR	2 x T8 36w.	1195	1222	295	265	90	1175 x 275	
T&F1 236 WBR	2 x T8 36w.	1195	1222	595	565	90	1175 x 575	
T&F1 336 WR	3 x T8 36w.	1195	1222	595	565	90	1175 x 575	
T&F1 436 WR	4 x T8 36w.	1195	1222	595	565	90	1175 x 575	

ORDERING DATA: T&E1 236 WBR / T6 / 87
A B C

A = Lamp Holder Type (T&F1 = Rotary-locked type, T&S1 = Spring-locked type)
B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
C = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



S&B1-W

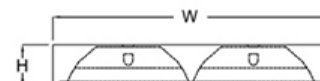
T8 Surface Mounted Double Parabolic Louver Luminaire



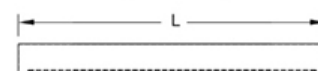
HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Rotary-locked type starter holder (TIS Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.
- Lamp holders are available in 2 options.
S&B1: For heavy duty rotary-locked type (TIS.344-1987 Standard)
S&S1: For heavy duty spring-locked type (TIS.344-1987 Standard)

FRONT VIEW



SIDE VIEW



REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage. Optional: TR = 95% (95) for high efficiency purpose.
- 99.85% high purity anodized aluminium louver with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for longitudinal
- 99.85% high purity anodized aluminium cross blade with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) to anti-glare. Standard 2 blades for 18w. and 5 blades for 36w.
- Louver and profiles are applied to anti-glare.
- Transparent spring-lock type for ease of maintenance.

INSTALLATION & APPLICATION

- For surface mounted or suspension rod installation.
- Recommended for commercial buildings, hospital, laboratories, schools, etc.



MODEL NO	WATT	DIMENSION (mm.)			REMARK
		L	W	H	
S&B1 118 WR	1 x T8 18w.	615	200	90	
S&B1 118 WBR	1 x T8 18w.	615	295	90	
S&B1 218 WR	2 x T8 18w.	615	295	90	
S&B1 218 WBR	2 x T8 18w.	615	595	90	
S&B1 318 WR	3 x T8 18w.	615	595	90	
S&B1 418 WR	4 x T8 18w.	615	595	90	
S&B1 136 WR	1 x T8 36w.	1222	200	90	
S&B1 136 WBR	1 x T8 36w.	1222	295	90	
S&B1 236 WR	2 x T8 36w.	1222	295	90	
S&B1 236 WBR	2 x T8 36w.	1222	595	90	
S&B1 336 WR	3 x T8 36w.	1222	595	90	
S&B1 436 WR	4 x T8 36w.	1222	595	90	

ORDERING DATA: S&B1 236 WBR / T6 / 87
A B C

A = Lamp Holder Type (S&B1 = Rotary-locked type, S&S1 = Spring-locked type)
B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
C = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



T&F3-C

T5 Recessed Louver Luminaire



HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

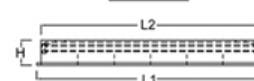
REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage. Optional: TR = 95% (95) for high efficiency purpose.
- 99.85% high purity anodized aluminium louver with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for longitudinal with aluminium profile to anti-glare. Standard 5 blades for 14w. and 11 blades for 28w.
- Louver and profiles are applied to anti-glare.
- Spring-lock type for ease of maintenance.

FRONT VIEW



SIDE VIEW



INSTALLATION & APPLICATION

- For recessed T-bar and gypsum ceiling installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)	REMARK
		L1	L2	W1	W2	H		
T&F3 114 CR	1 x T5 14w.	595	570	200	170	65	575 x 185	
T&F3 114 CBR	1 x T5 14w.	595	570	295	270	65	575 x 275	
T&F3 214 CR	2 x T5 14w.	595	570	295	270	65	575 x 275	
T&F3 214 CBR	2 x T5 14w.	595	570	595	570	65	575 x 575	
T&F3 314 CR	3 x T5 14w.	595	570	595	570	65	575 x 575	
T&F3 414 CR	4 x T5 14w.	595	570	595	570	65	575 x 575	
T&F3 128 CR	1 x T5 28w.	1195	1170	200	170	65	1175 x 185	
T&F3 128 CBR	1 x T5 28w.	1195	1170	295	270	65	1175 x 275	
T&F3 228 CR	2 x T5 28w.	1195	1170	295	270	65	1175 x 275	
T&F3 228 CBR	2 x T5 28w.	1195	1170	595	570	65	1175 x 575	
T&F3 328 CR	3 x T5 28w.	1195	1170	595	570	65	1175 x 575	
T&F3 428 CR	4 x T5 28w.	1195	1170	595	570	65	1175 x 575	

ORDERING DATA: T&F3 228 CBR / T6 / 87
A B

A = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
B = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



S&B3-C

T5 Surface Mounted Louver Luminaire

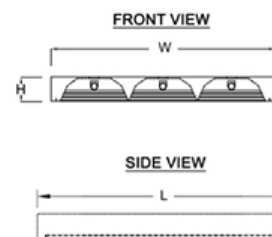


HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage. Optional: TR = 95% (95) for high efficiency purpose.
- 99.85% high purity anodized aluminium louver with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for longitudinal with aluminium profile to anti-glare. Standard 5 blades for 14w. and 11 blades for 28w.
- Louver and profiles are applied to anti-glare.
- Spring-lock type for ease of maintenance.



INSTALLATION & APPLICATION

- For surface mounted or suspension rod installation.
- Recommended for commercial buildings, hospital, laboratories, schools, etc.



MODEL NO	WATT	DIMENSION (mm.)			REMARK
		L	W	H	
S&B3 114 CR	1 x T5 14w.	595	200	65	
S&B3 114 CBR	1 x T5 14w.	595	295	65	
S&B3 214 CR	2 x T5 14w.	595	295	65	
S&B3 214 CBR	2 x T5 14w.	595	595	65	
S&B3 314 CR	3 x T5 14w.	595	595	65	
S&B3 414 CR	4 x T5 14w.	595	595	65	
S&B3 128 CR	1 x T5 28w.	1200	200	65	
S&B3 128 CBR	1 x T5 28w.	1200	295	65	
S&B3 228 CR	2 x T5 28w.	1200	295	65	
S&B3 228 CBR	2 x T5 28w.	1200	595	65	
S&B3 328 CR	3 x T5 28w.	1200	595	65	
S&B3 428 CR	4 x T5 28w.	1200	595	65	

ORDERING DATA: S&B3 228 CBR / $\frac{T6}{A}$ / $\frac{87}{B}$

A = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)

B = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



T&F3-P

T5 Recessed Acrylic Diffuser Luminaire



HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

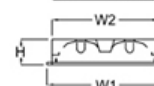
REFLECTOR & DIFFUSER

- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage. Optional: Total Reflectance of 95% (95) for high efficiency purpose.
- Spring-lock type frame for ease of maintenance.

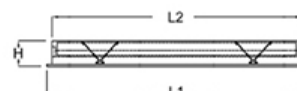
INSTALLATION & APPLICATION

- For recessed T-bar and gypsum ceiling installation.
- Recommended for commercial buildings, hospital, laboratories, schools, etc.

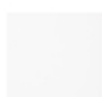
FRONT VIEW



SIDE VIEW



Prismatic



Opal



Clear



Stipple



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)	REMARK
		L1	L2	W1	W2	H		
T&F3 114 PR	1 x T5 14w.	595	570	200	170	65	575 x 185	
T&F3 114 PBR	1 x T5 14w.	595	570	295	270	65	575 x 275	
T&F3 214 PR	2 x T5 14w.	595	570	295	270	65	575 x 275	
T&F3 214 PBR	2 x T5 14w.	595	570	595	570	65	575 x 575	
T&F3 314 PR	3 x T5 14w.	595	570	595	570	65	575 x 575	
T&F3 414 PR	4 x T5 14w.	595	570	595	570	65	575 x 575	
T&F3 128 PR	1 x T5 28w.	1195	1170	200	170	65	1175 x 185	
T&F3 128 PBR	1 x T5 28w.	1195	1170	295	270	65	1175 x 275	
T&F3 228 PR	2 x T5 28w.	1195	1170	295	270	65	1175 x 275	
T&F3 228 PBR	2 x T5 28w.	1195	1170	595	570	65	1175 x 575	
T&F3 328 PR	3 x T5 28w.	1195	1170	595	570	65	1175 x 575	
T&F3 428 PR	4 x T5 28w.	1195	1170	595	570	65	1175 x 575	

ORDERING DATA: T&F3 228 PBR / $\frac{P}{A} \frac{T6}{B} \frac{87}{C}$

A = Acrylic Type (P = Prismatic, M = Opal, O = Stipple, J = Clear)
B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
C = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



S&B3-P

T5 Surface Mounted Acrylic Diffuser Luminaire



HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

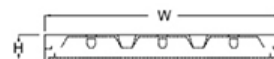
REFLECTOR & LOUVER

- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage. Optional: Total Reflectance of 95% (95) for high efficiency purpose.

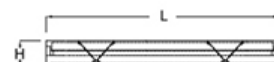
INSTALLATION & APPLICATION

- For surface mounted or suspension rod installation.
- Recommended for commercial buildings, hospital, laboratories, schools, etc.

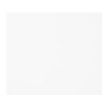
FRONT VIEW



SIDE VIEW



Prismatic



Opal



Clear



Stipple



MODEL NO	WATT	DIMENSION (mm.)			REMARK
		L	W	H	
S&B3 114 PR	1 x T5 14w.	595	200	65	
S&B3 114 PBR	1 x T5 14w.	595	295	65	
S&B3 214 PR	2 x T5 14w.	595	295	65	
S&B3 214 PBR	2 x T5 14w.	595	595	65	
S&B3 314 PR	3 x T5 14w.	595	595	65	
S&B3 414 PR	4 x T5 14w.	595	595	65	
S&B3 128 PR	1 x T5 28w.	1200	200	65	
S&B3 128 PBR	1 x T5 28w.	1200	295	65	
S&B3 228 PR	2 x T5 28w.	1200	295	65	
S&B3 228 PBR	2 x T5 28w.	1200	595	65	
S&B3 328 PR	3 x T5 28w.	1200	595	65	
S&B3 428 PR	4 x T5 28w.	1200	595	65	

ORDERING DATA: S&B3 228 PBR / P / T6 / 87
 A B C

A = Acrylic Type (P = Prismatic, M = Opal, O = Stipple, J = Clear)
 B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
 C = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



T&F1-Q

Recessed T-bar Clean Room Luminaire



HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Open-back service access is available upon requested.
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.
- Lamp holders are available in 2 options for T8 fluorescent.
T&F1: For heavy duty rotary-locked type (TIS.344-1987 Standard)
T&S1: For heavy duty spring-locked type (TIS.344-1987 Standard)

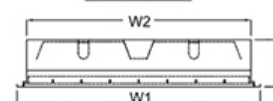
REFLECTOR & DIFFUSER

- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage. Optional: Total Reflectance of 95% (95) for high efficiency purpose.
- Weather proof seal gasket to prevent dust.
- Spring-lock type frame for ease of maintenance.

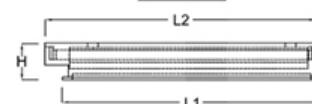
INSTALLATION & APPLICATION

- For recessed T-bar and gypsum ceiling installation.
- Recommended for commercial buildings, hospital, laboratories, schools, etc.

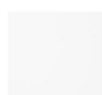
FRONT VIEW



SIDE VIEW



Prismatic



Opal



Clear



Stipple

Optional LED Replacement

LED-T8 / G13
10W / 19W



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)	REMARK
		L1	L2	W1	W2	H		
T&F1 236 QPR	2 x T8 36w.	1195	1243	295	249	100	1175 x 275	
T&F1 236 QPBR	2 x T8 36w.	1195	1243	595	549	100	1175 x 575	
T&F1 336 QPR	3 x T8 36w.	1195	1243	595	549	100	1175 x 575	
T&F5 228 QPR	2 x T5 28w.	1195	1170	295	270	90	1175 x 275	
T&F5 228 QPBR	2 x T5 28w.	1195	1170	595	570	90	1175 x 575	
T&F5 328 QPR	3 x T5 28w.	1195	1170	595	570	90	1175 x 575	

ORDERING DATA: T&F1 236 QPBR / P / T6 / 87
A B C D

A = Lamp Holder Type (T&F1 = Rotary-locked type, T&S1 = Spring-locked type)
B = Acrylic Type (P = Prismatic, M = Opal, O = Stipple, J = Clear)
C = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
D = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



T&F1-O

T8 Recessed T-bar Open Type Luminaire



HOUSING

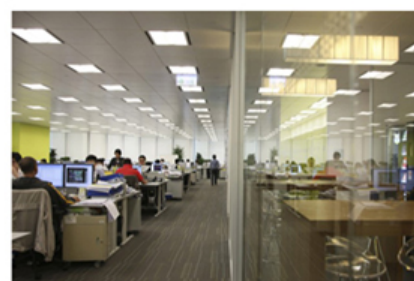
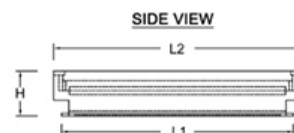
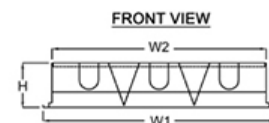
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.
- Lamp holders are available in 2 options.
TFB1: For heavy duty rotary-locked type (TIS.344-1987 Standard)
TFS1: For heavy duty spring-locked type (TIS.344-1987 Standard)

REFLECTOR

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage. Optional: Total Reflectance of 95% (95) for high efficiency purpose.

INSTALLATION & APPLICATION

- For recessed T-bar ceiling installation.
- Recommended for commercial buildings, hospital, laboratories, schools, etc.



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)	REMARK
		L1	L2	W1	W2	H		
T&F1 218 OR	2 x T8 18w.	595	636	295	249	115	575 x 275	
T&F1 218 OBR	2 x T8 18w.	595	636	595	549	115	575 x 575	
T&F1 318 OR	3 x T8 18w.	595	636	595	549	115	575 x 575	
T&F1 236 OR	2 x T8 36w.	1195	1243	295	249	115	1175 x 275	
T&F1 236 OBR	2 x T8 36w.	1195	1243	595	549	115	1175 x 575	
T&F1 336 OR	3 x T8 36w.	1195	1243	595	549	115	1175 x 575	

ORDERING DATA: T&F1 236 OBR / T6 / 87
A B C

A = Lamp Holder Type (TFB1 = Rotary-locked type, TFS1 = Spring-locked type)
B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
C = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)

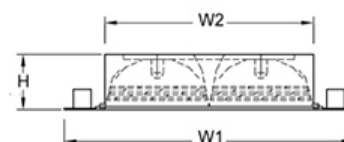
T&F1-S

Recess Air Supply Louver Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage with aluminium profile to anti-glare.
- High quality aluminium extruded air slots to supply air flow.
- Spring-lock type frame for ease of maintenance.



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
T&F5 218 SCBR	2 x T8 18w.	595	615	595	425	90	575 x 575
T&F5 318 SCR	3 x T8 18w.	595	615	595	425	90	575 x 575
T&F5 236 SCBR	2 x T8 36w.	1195	1222	595	425	90	1175 x 275
T&F5 336 SCR	3 x T8 36w.	1195	1222	595	425	90	1175 x 275
T&F5 214 SCBR	2 x T5 14w.	595	575	595	425	90	575 x 575
T&F5 314 SCR	3 x T5 14w.	595	575	595	425	90	575 x 575
T&F5 228 SCBR	2 x T5 28w.	1195	1170	595	425	90	1175 x 275
T&F5 328 SCR	3 x T5 28w.	1195	1170	595	425	90	1175 x 275



Optional LED Replacement
LED-T8 / G13
10W / 19W

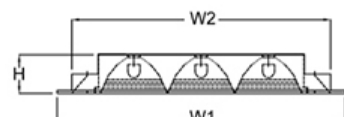
T&F1-T

Recess Air Return Louver Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage with aluminium profile to anti-glare.
- High quality steel painted air return slots.
- Spring-lock type frame for ease of maintenance.



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
T&F5 218 TCBR	2 x T8 18w.	595	615	595	425	90	575 x 575
T&F5 318 TCR	3 x T8 18w.	595	615	595	425	90	575 x 575
T&F5 236 TCBR	2 x T8 36w.	1195	1222	595	425	90	1175 x 275
T&F5 336 TCR	3 x T8 36w.	1195	1222	595	425	90	1175 x 275
T&F5 214 TCBR	2 x T5 14w.	595	575	595	425	90	575 x 575
T&F5 314 TCR	3 x T5 14w.	595	575	595	425	90	575 x 575
T&F5 228 TCBR	2 x T5 28w.	1195	1170	595	425	90	1175 x 275
T&F5 328 TCR	3 x T5 28w.	1195	1170	595	425	90	1175 x 275



Optional LED Replacement
LED-T8 / G13
10W / 19W

ORDERING DATA: T&F5 236 SCBR / T6 / 87
A B

A = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
B = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)

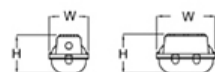


PE-T8

T8 Weather Proof Luminaire

- Injected polycarbonate (PC) in grey color with injection molded clear prismatic UV stabilized polycarbonate (PC) with curved to anti-glare.
- Cold-rolled steel plate, finished with high glossy baked white polyester powder coating
- Optional: Anodized aluminium reflector TR 87% mirror finished or TR = 95% .
- Stainless clip lock (SL). Optinal: Polycarbonate (PC) clip lock
- Rotary-locked type lamp holder G13 (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for semi-outdoor or outdoor application

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
PE2 118 WR	1 x T8 18w.	670	110	108
PE2 218 WR	2 x T8 18w.	670	170	108
PE2 136 WR	1 x T8 36w.	1270	110	108
PE2 236 WR	2 x T8 36w.	1270	170	108



Optional LED Replacement
 **LED-T8 / G13**
 10W / 19W

PE-T5

T5 Weather Proof Luminaire

- Injected polycarbonate (PC) in grey color with injection molded clear prismatic UV stabilized polycarbonate (PC) with curved to anti-glare.
- Cold-rolled steel plate, finished with high glossy baked white polyester powder coating
- Optional: Anodized aluminium reflector TR 87% mirror finished or TR = 95% .
- Stainless clip lock (SL).
- Rotary-locked type lamp holder G5 (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for semi-outdoor or outdoor application

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
PE5 114 WR / SL	1 x T5 14w.	610	60	80
PE5 214 WR / SL	2 x T5 14w.	610	100	80
PE5 128 WR / SL	1 x T5 28w.	1210	60	80
PE5 228 WR / SL	2 x T5 28w.	1210	100	80



ORDERING DATA: PE2 118 WR / SL / 87
 A B

A = Clip Type (SL = Stainless Clip, PC = Polycarbonate Clip)
 B = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



CLR

Cold Room Luminaire

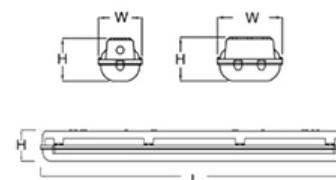


HOUSING

- Fiber-glass reinforced polyester housing,
- U.V. stabilized polycarbonate diffuser.
- Finished with white polyester powder by two-stage electrostatic method.
- Optional: Anodized aluminium reflector and stainless steel suspension bracket
- Lamp holder is insulated with polycarbonate inner sleeve (TIS Standard)
- Electric pulse starter to ensure long tube life and reduce cost maintenance with condensed ballast (HPF)
- Stainless clip
- 20mm. cable gland at both ends
- Internal wiring terminated at 6mm. 2 ways terminal block with fuse unit.
- Manufactured in accordance with IEC 598 / AS 3137

INSTALLATION & APPLICATION

- For surface mounted suspend.
- Suitable for reliable operation in ambient temperature -40°C to 25°C



MODEL NO	WATT	DIMENSION (mm.)			REMARK
		L	W	H	
CLR 118 WR	1 x T8 18w.	705	120	115	
CLR 218 WR	2 x T8 18w.	705	190	115	
CLR 136 WR	1 x T8 36w.	1315	120	115	
CLR 236 WR	2 x T8 36w.	1315	190	115	

ORDERING DATA: CLR 236 WR / $\frac{87}{A}$

A = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



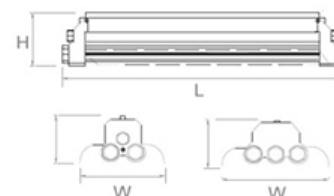
DRTS

Explosionproof Luminaire



DESCRIPTION

- Type: Ex de IIA T6
- Marking test: Ex112G
- Ambient Temp.(Ta): 20°C - +50°C
- Rated Voltage: 220-240VAC 50/60Hz
- Lamp: Fluorescent 18/20w or 36/40w, G13 Socket
- Ballast: Rabbit-start 20,40w or electronic 18,36w.
- Enclosure entry holes: Direct entry 2 x 3/4" NPT.
- Power Factor: PF ≥95
- Protection class for UL: Class I, Division 1 or 2 Group C,D
Class II, Division 1 or 2 Group E, F, G
Class III
- Protection class for IEC: Zone1 and Zone2
- Options: Fixture hangle box 2 way 2x3/4"
Stopping plug 1x3/4" and ceiling saddle 1x3/4"
- Housing: Copper-free aluminium alloy, coated with epoxy
-polyester powder
- Diffuser: Heavy-duty borosilicate glass tubes
- Reflector: High grade aluminium anodized reflector
- Standard: IEC 60079-0/1 or UL 60079-1



INSTALLATION & APPLICATION

- For pendant or surface mounting
- Suitable for installation in the hazardous area such as petrochemical plants, paint manufacturing plants, flour mills, or oil refineries.



MODEL NO	WATT	DIMENSION (mm.)			Temp. Class (Surface)		REMARK
		L	W	H	40°C Ta	50°C Ta	
DRTS 118	1 x T8 18w.	704	305	230	T6	T6	
DRTS 218	2 x T8 18w.	585	305	240	T6	T6	
DRTS 136	1 x T8 36w.	1348	305	230	T6	T6	
DRTS 236	2 x T8 36w.	1195	305	240	T6	T6	
DRTS 336	3 x T8 36w.	1195	485	240	T6	T6	



S&B0-FHR

T5 Open Type Fluorescent High Bay



HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

REFLECTOR & LOUVER

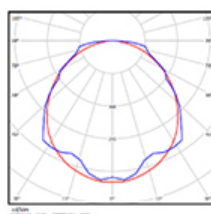
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage. Optional: TR = 95% (95) for high efficiency purpose.

INSTALLATION & APPLICATION

- For surface mounted or suspension rods installation.
- Recommended for warehouses, factories, gymnasium, etc.



MODEL: S&B0 428 FHR/T6/95 won 1st Award
Winning for Highest Efficiency in 2008 competition
held by TIEA with Light Output Ratio: **LOR = 96.6%**



MODEL NO	WATT	DIMENSION (mm.)			REMARK
		L	W	H	
S&B0 228 FHR	2 x T5 28w.	1200	300	82	
S&B0 328 FHR	3 x T5 28w.	1200	405	82	
S&B0 428 FHR	4 x T5 28w.	1200	525	82	
S&B0 628 FHR	6 x T5 28w.	1200	525	82	
S&B0 254 FHR	2 x T5 54w.	1200	300	82	
S&B0 354 FHR	3 x T5 54w.	1200	405	82	
S&B0 454 FHR	4 x T5 54w.	1200	525	82	
S&B0 654 FHR	6 x T5 54w.	1200	525	82	

ORDERING DATA: S&B0 428 FHR / $\frac{T6}{A} / \frac{87}{B}$

A = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
B = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



S&B0-FPR

T5 Acrylic Diffuser Type Fluorescent High Bay



HOUSING

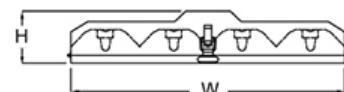
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

REFLECTOR & DIFFUSER

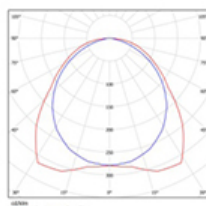
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage. Optional: TR = 95% (95) for high efficiency purpose.
- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J).
- Painted steel frame with stainless clip-lock type for ease of maintenance.
- Weather proof gasket seal for higher prevention (Optional).
- Wire guard cover (Optional).

INSTALLATION & APPLICATION

- For surface mounted or suspension rods installation.
- Recommended for warehouses, factories, gymnasium, etc.



Optional: Wire guard cover



MODEL NO	WATT	DIMENSION (mm.)			REMARK
		L	W	H	
S&B0 228 FPR	2 x T5 28w.	1200	300	94	
S&B0 328 FPR	3 x T5 28w.	1200	405	94	
S&B0 428 FPR	4 x T5 28w.	1200	525	94	
S&B0 628 FPR	6 x T5 28w.	1200	525	94	
S&B0 254 FPR	2 x T5 54w.	1200	300	94	
S&B0 354 FPR	3 x T5 54w.	1200	405	94	
S&B0 454 FPR	4 x T5 54w.	1200	525	94	
S&B0 654 FPR	6 x T5 54w.	1200	525	94	

ORDERING DATA: S&B0 428 FPR / J / T6 / 95
 A B C

A = Acrylic Type (P = Prismatic, M = Opal, O = Stipple, J = Clear, WG = Wire Guard)
 B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
 C = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)

RetroSave

T5 Retrofit - RetroSave

- A retrofit solution that easily replaces the existing T8 standard lamps
- 35% Energy saving
- Highly efficient 3-band fluorescent coating
- Reduce Hg content with solid mercury technology
- Improved system power factor up to 0.99
- Color Rendering Ra = 82
- G13 lamp holder
- 20,000hrs Life hours



MODEL NO	WATT	Color Temperature (K)	Lumen (lm)	DIMENSION (mm.)		
				L	W	H
T5-RS-114-830	14w.	3000	1350	589.8	24.2	32.8
T5-RS-114-840	14w.	4000	1350	589.8	24.2	32.8
T5-RS-114-865	14w.	6500	1260	589.8	24.2	32.8
T5-RS-128-830	28w.	3000	2900	1199.4	24.2	32.8
T5-RS-128-840	28w.	4000	2900	1199.4	24.2	32.8
T5-RS-128-865	28w.	6500	2700	1199.4	24.2	32.8



RetroSave Reflector

T5 Retrofit - RetroSave Reflector

- A retrofit solution that easily replaces the existing T8 standard lamps
- 35% Energy saving
- Highly efficient 3-band fluorescent coating
- Reduce Hg content with solid mercury technology
- Aluminium reflector to improve efficiency
- Improved system power factor up to 0.99
- Color Rendering Ra = 82
- G13 lamp holder
- 20,000hrs Life hours



MODEL NO	WATT	Color Temperature (K)	Lumen (lm)	DIMENSION (mm.)		
				L	W	H
T5-RS-R-114-830	14w.	3000	1350	589.8	24.2	32.8
T5-RS-R-114-840	14w.	4000	1350	589.8	24.2	32.8
T5-RS-R-114-865	14w.	6500	1260	589.8	24.2	32.8
T5-RS-R-128-830	28w.	3000	2900	1199.4	24.2	32.8
T5-RS-R-128-840	28w.	4000	2900	1199.4	24.2	32.8
T5-RS-R-128-865	28w.	6500	2700	1199.4	24.2	32.8



Settronic-T5

T5 Complete Set Without Cover

- T5 electronic fluorescent batten for home decoration
- 20% Less energy than average T8 batten type
- 11% More light output then traditional batten type
- High quality PC housing
- Harmonic <20%
- Color Rendering Ra = 0.99



MODEL NO	WATT	Color Temperature (K)	DIMENSION (mm.)		
			L	W	H
T5-SET-114-830	14w.	3000	628	25	45
T5-SET-114-840	14w.	4000	628	25	45
T5-SET-114-865	14w.	6500	628	25	45
T5-SET-128-830	28w.	3000	1228	25	45
T5-SET-128-840	28w.	4000	1228	25	45
T5-SET-128-865	28w.	6500	1228	25	45



Settronic-T5C

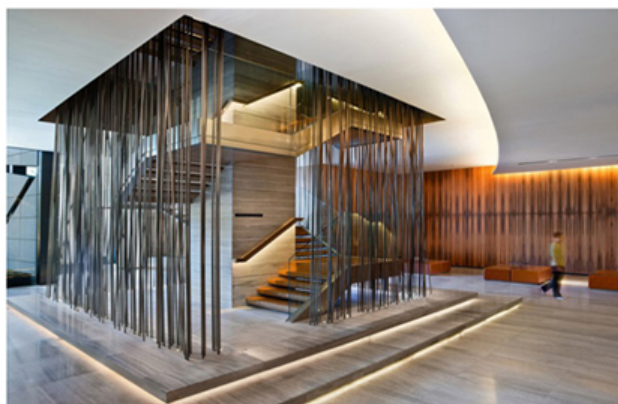
T5 Complete Set With Cover

- Light and slim T5 electronic fluorescent batten for home decoration
- 20% Less energy than average T8 batten type
- 10% More light output then traditional batten type
- High quality PC housing
- Harmonic <20%
- With acrylic cover
- Color Rendering Ra = 0.99



MODEL NO	WATT	Color Temperature (K)	DIMENSION (mm.)		
			L	W	H
T5-SET-C-114-830	14w.	3000	628	25	45
T5-SET-C-114-840	14w.	4000	628	25	45
T5-SET-C-114-865	14w.	6500	628	25	45
T5-SET-C-128-830	28w.	3000	1228	25	45
T5-SET-C-128-840	28w.	4000	1228	25	45
T5-SET-C-128-865	28w.	6500	1228	25	45



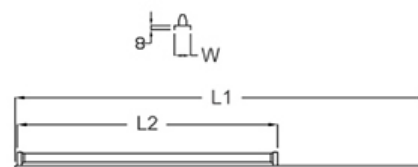


BTT

Cove Light Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Heavy duty rotary-locked type lamp holder (TIS.344-1987 Standard).
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for cove lighting

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
BTT 118 WR	1 x T8 18w.	915	45	48
BTT 136 WR	1 x T8 36w.	1525	45	48
BTT 114 WR	1 x T5 14w.	915	35	40
BTT 128 WR	1 x T5 28w.	1380	45	40



BTM-T5

T5 Batten Type Luminaire

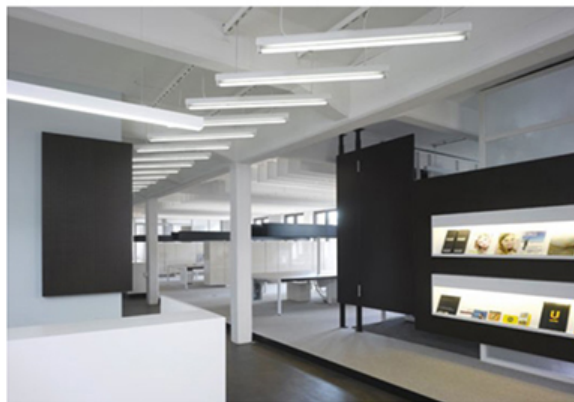
- High quality cold-rolled steel housing of thickness 0.4 (T4), 0.5 (T5), 0.6mm.(T6).
- Polycarbonate end cap
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 0.5 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
BTM 114 WR	1 x T5 14w.	575	35	55
BTM 128 WR	1 x T5 28w.	1175	35	55



ORDERING DATA: BTM 114 WR / T6
A

A = Steel Thickness (T4 = 0.4mm., T5 = 0.5mm., T6 = 0.6 mm.)



BT-T8

T8 Batten Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Heavy duty spring-locked type lamp holder (TIS.344-1987 Standard).
Other lamp holder types are available.
WR = Rotary-locked type lamp holder (G13)
WP = Waterproof type lamp holder
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement



MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
BT 118 WS	1 x T8 18w.	636	60	97
BT 218 WS	2 x T8 18w.	636	120	97
BT 136 WS	1 x T8 36w.	1245	60	97
BT 236 WS	2 x T8 36w.	1245	120	97



Optional LED Replacement
 LED-T8 / G13
 10W / 19W

BT-T5

T5 Batten Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement



MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
BT 114 WR	1 x T5 14w.	575	35	55
BT 214 WR	2 x T5 14w.	575	82	55
BT 128 WR	1 x T5 28w.	1175	35	55
BT 228 WR	2 x T5 28w.	1175	82	55



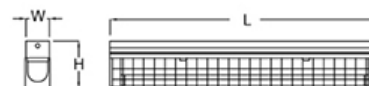
ORDERING DATA: BT 118 WS / T6
 A B

A = Lamp Holder Type (WS = Spring-lock Type, WR = Rotary-lock Type, WP = Waterproof Type)
 B = Steel Thickness (T6 = 0.6mm., T8 = 0.8 mm.)

WG-T8

T8 Wire Guard Batten Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Powder painted steel wire guard of thickness 2mm.
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Heavy duty spring-locked type lamp holder (TIS.344-1987 Standard).
Other lamp holder types are available.
WR = Rotary-locked type lamp holder (G13)
WP = Waterproof type lamp holder
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement



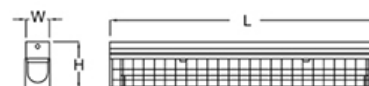
MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
WG 118 WS	1 x T8 18w.	636	64	112
WG 218 WS	2 x T8 18w.	636	124	112
WG 136 WS	1 x T8 36w.	1245	64	112
WG 236 WS	2 x T8 36w.	1245	124	112



WG-T5

T5 Wire Guard Batten Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Powder painted steel wire guard of thickness 2mm.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement



MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
WG 114 WR	1 x T5 14w.	575	35	70
WG 214 WR	2 x T5 14w.	575	82	70
WG 128 WR	1 x T5 28w.	1175	35	70
WG 228 WR	2 x T5 28w.	1175	82	70

ORDERING DATA: WG 118 WS / T6
A B

A = Lamp Holder Type (WS = Spring-lock Type, WR = Rotary-lock Type, WP = Waterproof Type)
B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)



IT-T8

T8 Industrial Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Powder painted steel sheet reflector. Optional: 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) or 95% (95)
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Heavy duty spring-locked type lamp holder (TIS.344-1987 Standard).
Other lamp holder types are available.
WR = Rotary-locked type lamp holder (G13)
WP = Waterproof type lamp holder
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement



MODEL NO	WATT	DIMENSION (mm.)			
		L	W1	W2	H
IT 118 WS	1 x T8 18w.	636	135	60	101
IT 218 WS	2 x T8 18w.	636	230	120	101
IT 136 WS	1 x T8 36w.	1245	135	60	101
IT 236 WS	2 x T8 36w.	1245	230	120	101



IT-T5

T5 Industrial Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Powder painted steel sheet reflector. Optional: 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) or 95% (95)
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
Other lamp holder types are available.
WP = Waterproof type lamp holder
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement



MODEL NO	WATT	DIMENSION (mm.)			
		L	W1	W2	H
IT 114 WR	1 x T5 14w.	577	110	35	70
IT 214 WR	2 x T5 14w.	577	150	80	70
IT 128 WR	1 x T5 28w.	1180	110	35	70
IT 228 WR	2 x T5 28w.	1180	150	80	70



ORDERING DATA: IT 118 WS / T6 / 87
 A B C

A = Lamp Holder Type (WS = Spring-lock Type, WR = Rotary-lock Type, WP = Waterproof Type)
 B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
 C = Optional: Reflectance fo Aluminium (87 = 87% , 95 = 95%)

BTF-T8

T8 Taper Batten Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Heavy duty spring-locked type lamp holder (TIS.344-1987 Standard).

Other lamp holder types are available.

WR = Rotary-locked type lamp holder (G13)

WP = Waterproof type lamp holder

- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
BTF 118 WS	1 x T8 18w.	636	155	115
BTF 218 WS	2 x T8 18w.	636	155	90
BTF 136 WS	1 x T8 36w.	1245	155	115
BTF 236 WS	2 x T8 36w.	1245	155	90



BTF-T5

T5 Taper Batten Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)

Other lamp holder types are available.

WP = Waterproof type lamp holder

- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
BTF 114 WR	1 x T5 14w.	575	120	40
BTF 214 WR	2 x T5 14w.	575	120	40
BTF 128 WR	1 x T5 28w.	1175	120	40
BTF 228 WR	2 x T5 28w.	1175	120	40



ORDERING DATA: BTF 118 WS / T6
A B

A = Lamp Holder Type (WS = Spring-lock Type, WR = Rotary-lock Type, WP = Waterproof Type)
B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)

BTV-T8

T8 Taper Batten Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Heavy duty spring-locked type lamp holder (TIS.344-1987 Standard).

Other lamp holder types are available.

WR = Rotary-locked type lamp holder (G13)

WP = Waterproof type lamp holder

- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
BTV 218 WS	2 x T8 18w.	636	218	95
BTV 236 WS	2 x T8 36w.	1245	218	95



BTV-T5

T5 Taper Batten Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)

Other lamp holder types are available.

WP = Waterproof type lamp holder

- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
BTV 214 WR	2 x T5 14w.	600	150	50
BTV 228 WR	2 x T5 28w.	1200	150	50



ORDERING DATA: BTV 218 WS / T6
 A B

A = Lamp Holder Type (WS = Spring-lock Type, WR = Rotary-lock Type, WP = Waterproof Type)
 B = Steel Thickness (T6 = 0.6mm., T8 = 0.8 mm.)

BTR-T8

T8 Asymmetric Batten Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
 - Five-stage zinc phosphate pretreatment for rust resistance.
 - Finished with white polyester powder by two-stage electrostatic method.
 - Powder painted sheel asymmetry cover. Optional: 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) or 95% (95)
 - Rotary-locked type starter holder (TIS.344-1987 Standard)
 - Heavy duty spring-locked type lamp holder (TIS.344-1987 Standard).
- Other lamp holder types are available.
- WR = Rotary-locked type lamp holder (G13)
- WP = Waterproof type lamp holder
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
 - Suitable for general wall mounting purpose with asymetry light distribution

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
BTR 118 WS	1 x T8 18w.	636	60	133
BTR 136 WS	1 x T8 36w.	1245	60	133



BTR-T5

T5 Asymmetric Batten Type Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
 - Five-stage zinc phosphate pretreatment for rust resistance.
 - Finished with white polyester powder by two-stage electrostatic method.
 - Powder painted sheel asymmetry cover. Optional: 99.85% high purity anodizedaluminium reflector with Total Reflectance of 87% (87) or 95% (95)
 - Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Other lamp holder types are available.
- WP = Waterproof type lamp holder
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
 - Suitable for general wall mounting purpose with asymetry light distribution

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
BTR 114 WR	1 x T5 14w.	575	35	95
BTR 128 WR	1 x T5 28w.	1175	35	95



ORDERING DATA: BTR 118 WS / T6 / 87
A B C

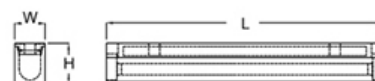
A = Lamp Holder Type (WS = Spring-lock Type, WR = Rotary-lock Type, WP = Waterproof Type)
B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
C = Optional: Reflectance fo Aluminium (87 = 87% , 95 = 95%)

UT-T8

T8 U-Type Acrylic Diffuser Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J)
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Heavy duty spring-locked type lamp holder (TIS.344-1987 Standard).
Other lamp holder types are available.
WR = Rotary-locked type lamp holder (G13)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
UT 118 WS	1 x T8 18w.	636	70	100
UT 218 WS	2 x T8 18w.	636	120	75
UT 136 WS	1 x T8 36w.	1245	70	100
UT 236 WS	2 x T8 36w.	1245	120	75



UT-T5

T5 U-Type Acrylic Diffuser Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J)
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general purpose with high efficiency requirement

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
UT 114 WR	1 x T5 14w.	575	35	55
UT 214 WR	2 x T5 14w.	575	82	55
UT 128 WR	1 x T5 28w.	1175	35	55
UT 228 WR	2 x T5 28w.	1175	82	55



ORDERING DATA: UT 118 WS / P / T6
 A B C

A = Lamp Holder Type (WS = Spring-lock Type, WR = Rotary-lock Type)
 B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
 C = Acrylic Type (P = Prismatic, M = Opal, O = Stipple, J = Clear)

LT-T8

T8 L-Type Acrylic Diffuser Luminaire

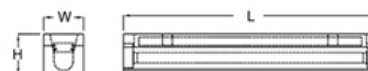
- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J)
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Heavy duty spring-locked type lamp holder (TIS.344-1987 Standard).

Other lamp holder types are available.

WR = Rotary-locked type lamp holder (G13)

- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general wall mounting purpose with asymmetry light distribution

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
LT 118 WS	1 x T8 18w.	636	100	100
LT 136 WS	1 x T8 36w.	1245	100	100

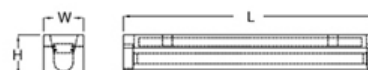


LT-T5

T5 L-Type Acrylic Diffuser Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J)
- Heavy duty rotary-locked type (G5) lamp holder (TIS.344-1987 Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general wall mounting purpose with asymmetry light distribution

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
LT 114 WR	1 x T5 14w.	575	65	65
LT 128 WR	1 x T5 28w.	1200	65	65



ORDERING DATA: LT 118 WS / P / T6
A B C

A = Lamp Holder Type (WS = Spring-lock Type, WR = Rotary-lock Type)
B = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
C = Acrylic Type (P = Prismatic, M = Opal, O = Stipple, J = Clear)

LTB-T8

T8 Bed Top Acrylic Diffuser Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- High quality acrylic diffuser with steel painted frame. Two acrylic diffusers are available: Prismatic (P), Opal (M)
- Optional: Anodized aluminium reflector TR 87% mirror finished or TR = 95% .
- Rotary-locked type starter holder (TIS.344-1987 Standard)
- Heavy duty rotary-locked type lamp holder (TIS.344-1987 Standard).
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general wall mounting purpose with asymetry light distribution

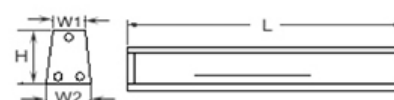


MODEL NO	WATT	DIMENSION (mm.)			
		L	W1	W2	H
LTB1 118 P	1 x T8 18w.	615	80	110	130
LTB1 218 P	2 x T8 18w.	615	80	110	130
LTB1 136 P	1 x T8 36w.	1220	80	110	130
LTB1 236 P	2 x T8 36w.	1220	80	110	130
LTB2 118 P	1 x T8 18w.	615	80	110	130
LTB2 218 P	2 x T8 18w.	615	80	110	130
LTB2 136 P	1 x T8 36w.	1220	80	110	130
LTB2 236 P	2 x T8 36w.	1220	80	110	130

LTB-T5

T5 Bed Top Acrylic Diffuser Luminaire

- High quality cold-rolled steel housing of thickness 0.6 (T6) or 0.8mm.(T8).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- High quality acrylic diffuser with steel painted frame. Two acrylic diffusers are available: Prismatic (P), Opal (M)
- Optional: Anodized aluminium reflector TR 87% mirror finished or TR = 95% .
- Heavy duty rotary-locked type lamp holder (TIS.344-1987 Standard).
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard).
- Suitable for general wall mounting purpose with asymetry light distribution



MODEL NO	WATT	DIMENSION (mm.)			
		L	W1	W2	H
LTB1 114 P	1 x T5 14w.	580	80	110	130
LTB1 214 P	2 x T5 14w.	580	80	110	130
LTB1 128 P	1 x T5 28w.	1195	80	110	130
LTB1 228 P	2 x T5 28w.	1195	80	110	130
LTB2 114 P	1 x T5 14w.	580	80	110	130
LTB2 214 P	2 x T5 14w.	580	80	110	130
LTB2 128 P	1 x T5 28w.	1195	80	110	130
LTB2 228 P	2 x T5 28w.	1195	80	110	130

ORDERING DATA: LTB1 118 P R M / T6 / 87
 A B C D E

A = 1 = Downlight only, 2 = Up & down light distribution
 B = Reflector added if appreciated
 C = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
 D = Acrylic Type (P = Prismatic, M = Opal)
 E = Reflectance of Aluminium Refle (87 = 87% , 95 = 95%)



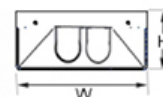
SIT

Simple Industrial Type Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87)



MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
SIT 136 WR	1 x T8 36w.	1222	190	100
SIT 236 WR	2 x T8 36w.	1222	260	100
SIT 128 WR	1 x T5 28w.	1195	595	100
SIT 228 WR	2 x T5 28w.	1195	595	100



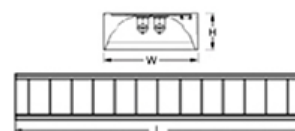
CCR

Louver Continue Type Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage with aluminium profile to anti-glare.
- Spring-lock type louver for ease of maintenance.



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
SFB0 136 CCR	1 x T8 36w.	1220		220		90	-
SFB0 236 CCR	2 x T8 36w.	1220		220		90	-
SFB0 138 CCR	1 x T5 28w.	1200		220		90	-
SFB0 228 CCR	2 x T5 28w.	1200		220		90	-
FFB0 136 CCR	1 x T8 36w.	1222	1195	220	195	80	1205 x 205
FFB0 236 CCR	2 x T8 36w.	1222	1195	220	195	80	1205 x 205
FFB0 128 CCR	1 x T5 28w.	1195	1170	220	195	80	1180 x 205
FFB0 228 CCR	2 x T5 28w.	1195	1170	220	195	80	1170 x 205



ORDERING DATA: SFB0 236 CCR / T6 / 87
A B

A = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
B = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)

WW

Wall Washer Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type lampholder (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.

MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
SFB0 136 WW	1 x T8 36w.	1222		220		105	
SFB0 236 WW	2 x T8 36w.	1222		220		105	
TFB0 136 WW	1 x T8 36w.	1270	1243	220	195	105	1255 x 205
TFB0 236 WW	2 x T8 36w.	1270	1243	220	195	105	1255 x 205
SFB0 128 WW	1 x T5 28w.	1200		220		105	
SFB0 228 WW	2 x T5 28w.	1200		220		105	
TFB0 128 WW	1 x T5 28w.	1195	1170	220	195	105	1175 x 205
TFB0 228 WW	2 x T5 28w.	1195	1170	220	195	105	1175 x 205



WA

Adjustable Wall Washer Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type lampholder (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Adjustable reflector for flexible light adjustable

MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
SFB0 136 WA	1 x T8 36w.	1222		220		105	
SFB0 236 WA	2 x T8 36w.	1222		220		105	
TFB0 136 WA	1 x T8 36w.	1270	1243	220	195	105	1255 x 205
TFB0 236 WA	2 x T8 36w.	1270	1243	220	195	105	1255 x 205
SFB0 128 WA	1 x T5 28w.	1200		220		105	
SFB0 228 WA	2 x T5 28w.	1200		220		105	
TFB0 128 WA	1 x T5 28w.	1195	1170	220	195	105	1175 x 205
TFB0 228 WA	2 x T5 28w.	1195	1170	220	195	105	1175 x 205



ORDERING DATA: SFB0 236 WA / T6 / 87
 A B

A = Steel Thickness (T6 = 0.6mm. , T8 = 0.8 mm.)
 B = Reflectance of Aluminium Reflector (87 = 87% , 95 = 95%)



WRN

Red Warning Light Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Porcelain ceramic E27 lampholder
- Red transparent acrylic type diffuser of 2.5mm.

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
WRN-001	1 x E27 MAX 60w.	185	84	82

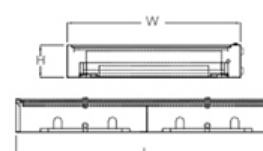


XRY

X-ray Type Luminaire

- Made of high quality stainless steel sheet of thickness 0.6 (T6)
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87)
- High quality opal acrylic diffuser
- Rocker switch for separate view.

MODEL NO	WATT	DIMENSION (mm.)			REMARK
		L	W	H	
SFB0 215 XRY	2 x T8 15w.	435	540	100	1 view
SFB0 415 XRY	4 x T8 15w.	810	540	100	2 view
SFB0 615 XRY	6 x T8 15w.	1190	540	100	3 view



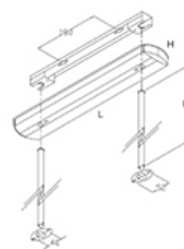


HGR

Hanging Rod

- High quality cold-rolled steel housing of thickness 0.6 (T6) metal plate,
- Steel rod of diameter 3/4 inch
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- For hanging fixtures

MODEL NO	DIMENSION (mm.)		
	L	W	H
FLU-HR / 050	415	330	50
FLU-HR / 100	415	330	100
FLU-HR / 150	415	330	150
FLU-HR / 200	415	330	200
FLU-HR / 250	415	330	250
FLU-HR / 300	415	330	300

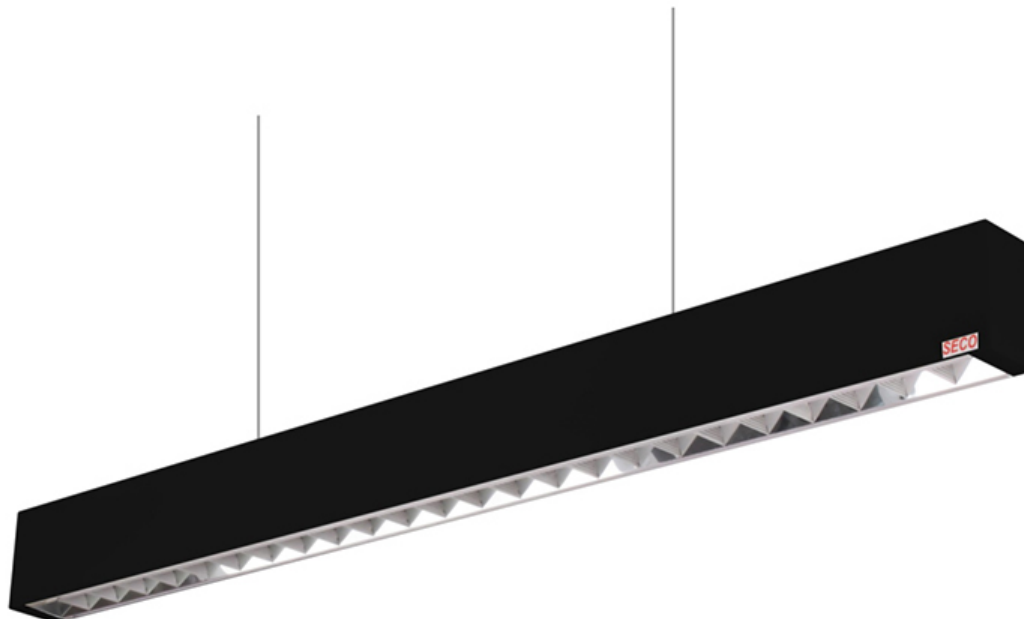


T5A

T5 Adapter

- White PC housing
- Standard Compliant (TIS.344-1987 Standard)
- For T5 lamp to adjustable to fit T8 fixtures.

MODEL NO	FOR	DIMENSION (mm.)	
		D	L
T5A-14	T5 14w.	26	31.5
T5A-28	T5 28w.	26	36

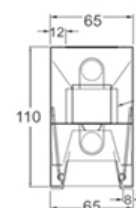


UP&DOWN

Up & Down Pendant Louver Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Anodized aluminium lover for anti-glare purpose
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87)
- Spring lock type louver for ease of maintenance
- Provide both up light and down light distribution

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
SFB0 128 UND	1 x T5 28w.	1220	65	110
SFB0 228 UND	2 x T5 28w.	1200	65	110



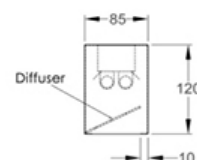
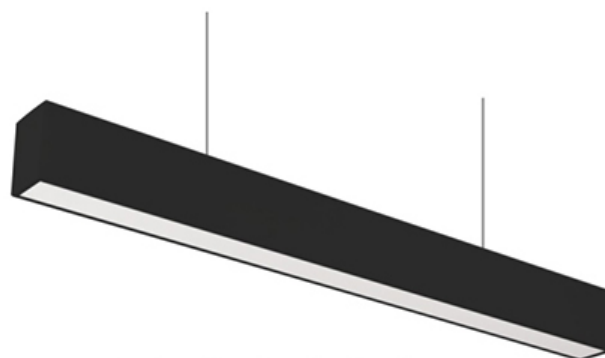


SLIM-S

Pendant Acrylic Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Opal Acrylic Diffuser for smooth light distribution

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
SFB0 128 SLM	1 x T5 28w.	1190	85	120
SFB0 228 SLM	2 x T5 28w.	1190	85	120

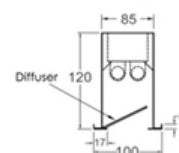
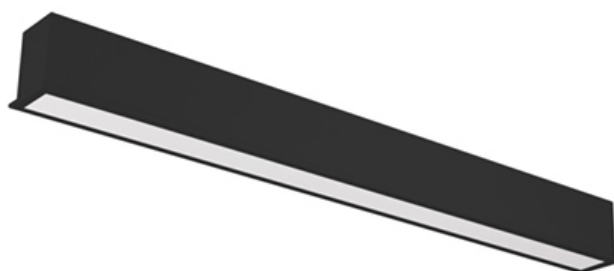


SLIM-R

Recessed Acrylic Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Opal Acrylic Diffuser for smooth light distribution

MODEL NO	WATT	DIMENSION (mm.)				
		L1	L2	W1	W2	H
FFB0 128 SLM	1 x T5 28w.	1190	1170	100	85	120
FFB0 228 SLM	2 x T5 28w.	1190	1170	100	85	120



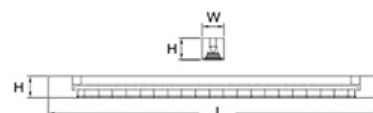


ARROW-C

Pendant Louver Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Spring-lock type louver for ease of maintenance.

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
SFB0 128 ARC	1 x T5 28w.	1380	90	90
SFB0 228 ARC	2 x T5 28w.	1380	110	130

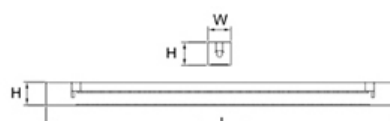


ARROW-P

Pendant Acrylic Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Opal acrylic diffuser for smooth light distribution

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
SFB0 128 ARP	1 x T5 28w.	1380	90	90
SFB0 228 ARP	2 x T5 28w.	1380	110	130





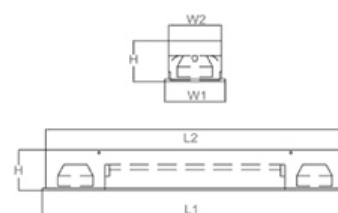
FRAME

Recessed Mounted with Downlight Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Dual QR111 downlight on both end (Optional: other downlights are available upon request)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87)
- Opal acrylic diffuser for smooth light distribution



MODEL NO	WATT	DIMENSION (mm.)				
		L1	L2	W1	W2	H
FFB0 136 FRM	1 x T8 36w.	1646	1622	206	180	140
FFB0 236 FRM	2 x T8 36w.	1646	1622	206	180	140
FFB0 128 FRM	1 x T5 28w.	1626	1602	206	180	140
FFB0 228 FRM	2 x T5 28w.	1626	1602	206	180	140



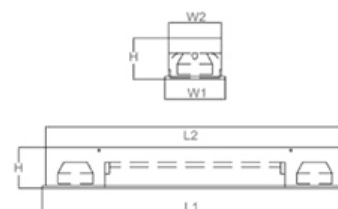
DOUBLE

Recessed Mounted with Downlight Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Dual G12 downlight on both end (Optional: other downlights are available upon request)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87)
- Opal acrylic diffuser for smooth light distribution



MODEL NO	WATT	DIMENSION (mm.)				
		L1	L2	W1	W2	H
FFB0 136 DBL	1 x T8 36w.	1646	1622	206	180	140
FFB0 236 DBL	2 x T8 36w.	1646	1622	206	180	140
FFB0 128 DBL	1 x T5 28w.	1626	1602	206	180	140
FFB0 228 DBL	2 x T5 28w.	1626	1602	206	180	140



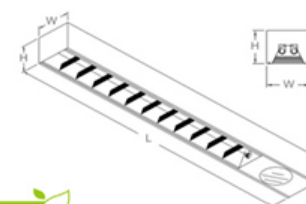


MATCH-S

Pendant Mounted Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard) for T8 lamp
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Metal halide (G12) downlight for decorative lighting (Other downlights are applicable upon requested).
- Spring-lock type louver for ease of maintenance.

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
SFB0 136 MAT	1 x T8 36w.	1480	170	140
SFB0 236 MAT	2 x T8 36w.	1480	170	140
SFB0 128 MAT	1 x T5 28w.	1480	170	140
SFB0 228 MAT	2 x T5 28w.	1480	170	140



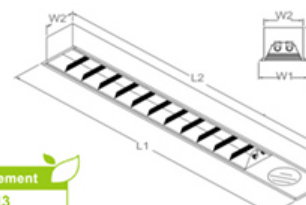
Optional LED Replacement
LED-T8 / G13
 10W / 19W

MATCH-R

Recessed Mounted Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard) for T8 lamp
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Metal halide (G12) downlight for decorative lighting (Other downlights are applicable upon requested).
- Spring-lock type louver for ease of maintenance.

MODEL NO	WATT	DIMENSION (mm.)				
		L1	L2	W1	W2	H
FFB0 136 MAT	1 x T8 36w.	1505	1480	195	154	140
FFB0 236 MAT	2 x T8 36w.	1505	1480	195	154	140
FFB0 128 MAT	1 x T5 28w.	1505	1480	195	154	140
FFB0 228 MAT	2 x T5 28w.	1505	1480	195	154	140



Optional LED Replacement
LED-T8 / G13
 10W / 19W

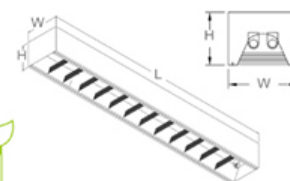


LINE-S

Slim Pendant Louver Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Spring-lock type louver for ease of maintenance.

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
SFB0 136 LNE	1 x T8 36w.	1245	120	130
SFB0 236 LNE	2 x T8 36w.	1245	150	130
SFB0 128 LNE	1 x T5 28w.	1200	90	90
SFB0 228 LNE	2 x T5 28w.	1200	100	130

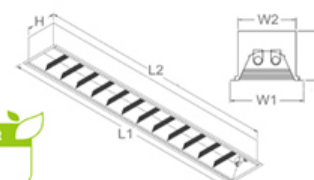


LINE-R

Slim Recessed Mounted Louver Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Spring-lock type louver for ease of maintenance.

MODEL NO	WATT	DIMENSION (mm.)				
		L1	L2	W1	W2	H
FFB0 136 LNE	1 x T8 36w.	1270	1245	150	120	130
FFB0 236 LNE	2 x T8 36w.	1270	1245	180	150	130
FFB0 128 LNE	1 x T5 28w.	1195	1170	120	90	130
FFB0 228 LNE	2 x T5 28w.	1195	1170	130	100	130





T&F2-OZ

T8 Recessed T-bar and Gypsum Louver Luminaire



HOUSING

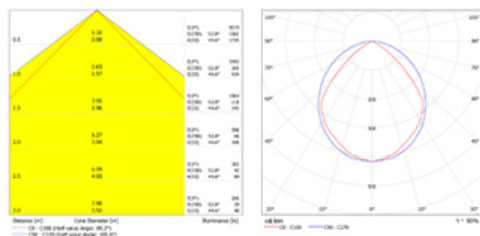
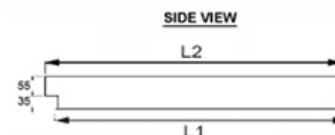
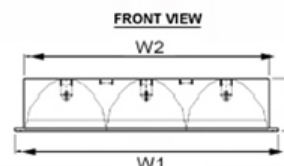
- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G13) lamp holder (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage. Optional: TR = 95% (95) for high efficiency purpose.
- Spring-lock type for ease of maintenance.

INSTALLATION & APPLICATION

- For recessed T-bar and gypsum ceiling installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
T&F2 118 OZB	1 x T8 18w.	595	620	295	265	80	575 x 275
T&F2 218 OZ	2 x T8 18w.	595	620	295	265	80	575 x 275
T&F2 218 OZB	2 x T8 18w.	595	620	595	565	80	575 x 575
T&F2 318 OZ	3 x T8 18w.	595	620	595	565	80	575 x 575
T&F2 136 OZB	1 x T8 36w.	1195	1222	295	265	80	1175 x 275
T&F2 236 OZ	2 x T8 36w.	1195	1222	295	265	80	1175 x 275
T&F2 236 OZB	2 x T8 36w.	1195	1222	595	565	80	1175 x 575
T&F2 336 OZ	3 x T8 36w.	1195	1222	595	565	80	1175 x 575



T&F2-CZ

T8 Recessed T-bar and Gypsum Louver Luminaire



HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8mm.(T8),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (G13) lamp holder (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard)
- Cable THW 1.0 sq.mm. 70°C (TIS.11-1988 Standard). Optional: 105°C 18AWG UL Standard.

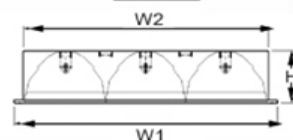
REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for normal usage. Optional: TR = 95% (95) for high efficiency purpose.
- 99.85% high purity anodized aluminium louver with Total Reflectance of 87% (87) mirror finished (DIN 5036-2) for longitudinal with aluminium profile to anti-glare. Standard 5 blades for 18w. and 10 blades for 36w.
- Louver and profiles are applied to anti-glare.
- Spring-lock type for ease of maintenance.

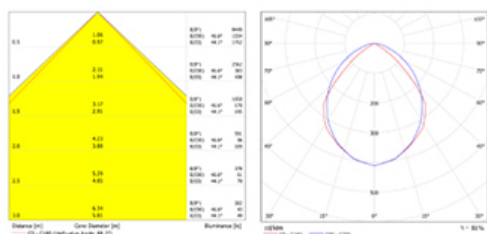
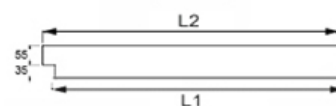
INSTALLATION & APPLICATION

- For recessed T-bar and gypsum ceiling installation.
- Recommended for commercial buildings, shops, hospitals, department stores, schools, etc.

FRONT VIEW

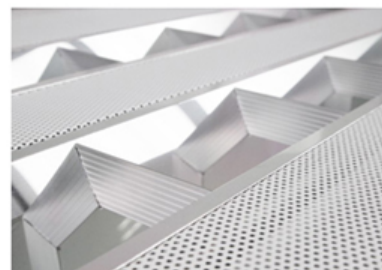


SIDE VIEW



Optional LED Replacement

LED-T8 / G13
10W / 19W



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
T&F2 118 CZB	1 x T8 18w.	595	620	295	265	80	575 x 275
T&F2 218 CZ	2 x T8 18w.	595	620	295	265	80	575 x 275
T&F2 218 CZB	2 x T8 18w.	595	620	595	565	80	575 x 575
T&F2 318 CZ	3 x T8 18w.	595	620	595	565	80	575 x 575
T&F2 136 CZB	1 x T8 36w.	1195	1222	295	265	80	1175 x 275
T&F2 236 CZ	2 x T8 36w.	1195	1222	295	265	80	1175 x 275
T&F2 236 CZB	2 x T8 36w.	1195	1222	595	565	80	1175 x 575
T&F2 336 CZ	3 x T8 36w.	1195	1222	595	565	80	1175 x 575

VECTRA

Surface Mounted Louver Luminaire

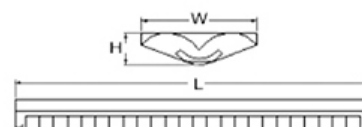
HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6),
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard) for T8 lamp

REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Spring-lock type grill for ease of maintenance.

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
S&B0 236 VTR	2 x T8 36w.	1237	400	100
S&B0 436 VTR	3 x T8 36w.	1237	400	100
S&B0 228 VTR	2 x T5 28w.	1155	400	100
S&B0 428 VTR	3 x T5 28w.	1155	400	100



RUGBY

Pendant Louver Luminaire

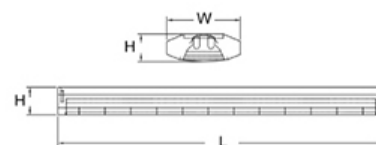
HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard) for T8 Lamp

REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Spring-lock type louver for ease of maintenance.

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
S&B0 136 RBY	1 x T8 36w.	630	295	115
S&B0 236 RBY	2 x T8 36w.	1240	295	115
S&B0 128 RBY	1 x T5 28w.	615	295	115
S&B0 228 RBY	2 x T5 28w.	1155	295	115



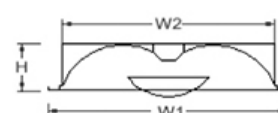
CURVE1

Recessed Mounted Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard) for T8 lamp
- Spring-lock type frame for ease of maintenance.



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
T&F0 118 CR1	1 x T8 18w.	595	615	595	425	115	575 x 575
T&F0 218 CR1	2 x T8 18w.	595	615	595	425	115	575 x 575
T&F0 136 CR1	1 x T8 36w.	1195	1222	595	425	115	1175 x 275
T&F0 236 CR1	2 x T8 36w.	1195	1222	595	425	115	1175 x 275
T&F0 114 CR1	1 x T5 14w.	595	565	595	565	115	575 x 575
T&F0 214 CR1	2 x T5 14w.	595	565	595	565	115	575 x 575
T&F0 128 CR1	1 x T5 28w.	1195	1170	595	565	115	1180 x 575
T&F0 228 CR1	2 x T5 28w.	1195	1170	595	565	115	1180 x 575



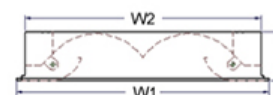
CURVE2

Recessed Mounted Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard) for T8 lamp
- Spring-lock type frame for ease of maintenance.



MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
T&F0 218 CR2	1 x T8 18w.	595	615	595	425	115	575 x 575
T&F0 236 CR2	2 x T8 36w.	1195	1222	595	425	115	1175 x 275
T&F0 214 CR2	2 x T5 14w.	595	565	595	565	115	575 x 575
T&F0 228 CR2	2 x T5 28w.	1195	1170	595	565	115	1180 x 575
T&F0 236 CR2-PLL	2 x PLL 36w.	595	615	595	425	115	575 x 575



CURVE-V

Recessed Mounted Louver Luminaire

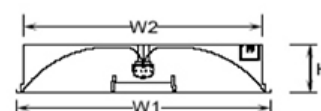
HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard) for T8 lamp

REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Spring-lock type louver for ease of maintenance.

MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
T&F0 218 CRV	2 x T8 18w.	595	620	595	565	100	580 x 605
T&F0 236 CRV	2 x T8 36w.	1195	1220	595	565	100	1205 x 605
T&F0 214 CRV	2 x T5 14w.	595	565	595	565	100	575 x 575
T&F0 228 CRV	2 x T5 28w.	1195	1170	595	565	100	1180 x 575
T&F0 236 CRV-PLL	2 x PLL 36w.	620	570	595	565	100	580 x 605



VIARY

Recessed Mounted Louver Luminaire

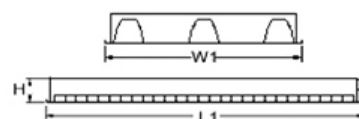
HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6).
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard) for T8 lamp

REFLECTOR & LOUVER

- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.
- Spring-lock type louver for ease of maintenance.

MODEL NO	WATT	DIMENSION (mm.)					CUT OUT (mm.)
		L1	L2	W1	W2	H	
T&F0 218 VRV	2 x T8 18w.	595	575	295	265	90	575 x 275
T&F0 318 VRV	3 x T8 18w.	595	575	595	565	90	575 x 575
T&F0 236 VRV	2 x T8 36w.	1195	1222	295	265	90	1180 x 275
T&F0 336 VRV	3 x T8 36w.	1195	1222	595	565	90	1180 x 575
T&F0 214 VRV	2 x T5 28w.	595	575	295	265	90	575 x 275
T&F0 314 VRV	3 x T5 36w.	595	575	595	565	90	575 x 575
T&F0 228 VRV	2 x T5 28w.	1195	1170	295	265	90	1180 x 275
T&F0 328 VRV	3 x T5 36w.	1195	1170	595	565	90	1180 x 575

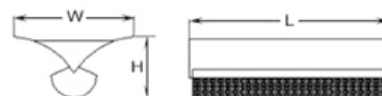


WING

Surface Mounted Luminaire

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty rotary-locked type (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard) for T8 lamp

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
S&B0 218 WNG	2 x T8 18w.	630	295	115
S&B0 236 WNG	2 x T8 36w.	1240	295	115
S&B0 214 WNG	2 x T5 14w.	615	295	115
S&B0 228 WNG	2 x T5 28w.	1155	295	115
S&B0 136 WNG-PLL	1 x PLL 36w.	500	295	115
S&B0 236 WNG-PLL	2 x PLL 36w.	500	295	115



SFB-32

Surface Mounted 32w Luminaire

HOUSING

- Made of high quality cold-rolled steel sheet of thickness 0.6 (T6) or 0.8 (T8)
- Five-stage zinc phosphate pretreatment for rust resistance.
- Finished with white polyester powder by two-stage electrostatic method.
- Heavy duty lamp holder (TIS.344-1987 Standard)
- Rotary-locked type starter holder (TIS Standard)

REFLECTOR & LOUVER

- High quality acrylic diffuser with steel painted frame. Four acrylic diffusers are available: Prismatic (P), Opal (M), Stipple (O), and Clear (J)
- 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% (87) for normal usage.

MODEL NO	WATT	DIMENSION (mm.)		
		L	W	H
S&B0 132 P	1 x TLE 32w.	382	382	70

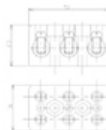


ATC

Porcelain Ceramic Terminal Block



- **Material:** Porcelain ceramic
- **Contact Material:** Brass
- **Operating Temperature:** 500°C (max)
- **Voltage Rating:** 450V
- **Terminal:** Screw connection
- **12-way cable entry**



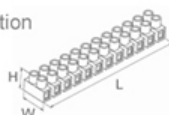
MODEL NO	Current	Cable Size (mm)	MEASUREMENT (mm)			QTY / BOX
			L	W	H	
ATC-05-3	5A	2.5-4	30	20	15	50
ATC-10-3	10A	6-10	40	25	20	50
ATC-15-3	15A	16	50	30	22	20

ATM

Terminal Block



- **Material:** Nylon PA66UL94V-0
- **Contact Material:** Brass
- **Operating Temperature:** 130°C
- **Voltage Rating:** 450V
- **Terminal:** Screw connection
- **12-way cable entry**



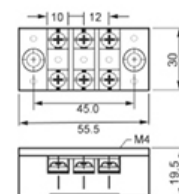
MODEL NO	Current	Cable Size (mm)	MEASUREMENT (mm)			QTY / BOX
			L	W	H	
ATM-04	10A	4	117	22.2	19.8	50
ATM-06	20A	6	140	23.2	21.2	50
ATM-10	35A	10	175	25.1	27.8	20
ATM-16	50A	16	175	25.1	27.8	20

ATN

Terminal Block



- **Material:** Plastic
- **Contact Material:** Brass
- **Wire section:** 0.5-2.5mm²
- **Rated current:** 25A
- **Voltage Rating:** 600V
- **Terminal:** Double row 3 position

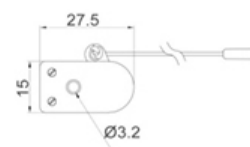


APS

Pull Switch



- **Material:** Polycarbonate
- **Terminal:** 0.5-1mm²
- **Rating:** 2A/250V
- **String Material:** Nylon
- **Mark:**





03

Portable Lamps

SECO Portable lamps are designed for functional as well as appearance purposes. SECO portable lamps have been known in Thai market more than 30 years. We have been OEM and ODM for many companies locally and oversea.

FL-94

Magnifier Arm Lamp

A special magnifier lamps FL-94 comes with adjustable arm and a shade handle. FL-94 is best for details visual work. It's available with 3x, 5x, and 8x magnifier. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. Electronic ballast inside for better lighting and no flicker.



FL-94 / BL FL-94 / SV FL-94 / WH



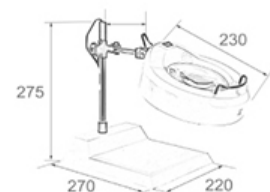
FL-97

Magnifier Table Lamp

A special magnifier lamps FL-97 comes with adjustable stand and a shade handle. FL-97 is best for details visual work. It's available with 3x, 5x, and 8x magnifier. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The white plastic base is designed for clear visible working area. Electronic ballast inside for better lighting and no flicker.



FL-97 / WH



SL-106

Arm Lamp

SL-106 is a classic design arm lamp. It's suitable for every working area or even decorative purpose. SL-106 is easy to install with roomy shade for several bulb types. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature. The lamp is suitable for compact fluorescent bulb.

Compatible Bulb		Optional LED Replacement							
	GLS / E27 25W / 40W / 60W		GENIE / E27 8W / 11W / 14W		LED-GLS / E27 8W / 10W	IP20			CE



AE-5316

Arm Lamp

AE-5316 is a 2-piece shade structured for better heat ventilation. With larger shade, AE-5316 is practical with high wattage bulbs to cover bigger working area. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature.

Compatible Bulb			Optional LED Replacement						
	GLS / E27 25W / 40W / 60W		GENIE / E27 8W / 11W / 14W		LED-GLS / E27 8W / 10W	IP20			CE

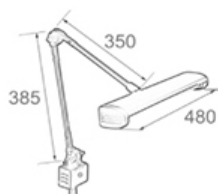


FL-91E

Fluorescent Arm Lamp

TE-5235 is a heavy duty fluorescent arm lamp. It's designed is popular for hobbies or small work station. Electronic ballast inside for better lighting and no flicker. The 15w fluorescent tube give a wide cover light area. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature.

Compatible Bulb	
	T8 / G13 15W



FL-91E / BL



FL-91E / BK



FL-91E / WH



FL-99

Fluorescent Table Lamp



More than just a table lamp, FL-99 is a stationary table lamp, economy choice for using with 10w fluorescent tybe. The plastic shade is durable. The inner shade is white for smooth light output. The lamp holder is made of porcelain to endure high temperature.

Compatible Bulb	
	T8 / G13 15W



FL-99 / PK



FL-99 / BL



TE-858

Table Lamp

TE-5235 is a medium arm length size table lamp with wider lamp shade. Another design for your choice. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature. The lamp is suitable for compact fluorescent bulb.

Compatible Bulb	
 GLS / E27 25W / 40W / 60W	 GENIE / E27 8W / 11W / 14W

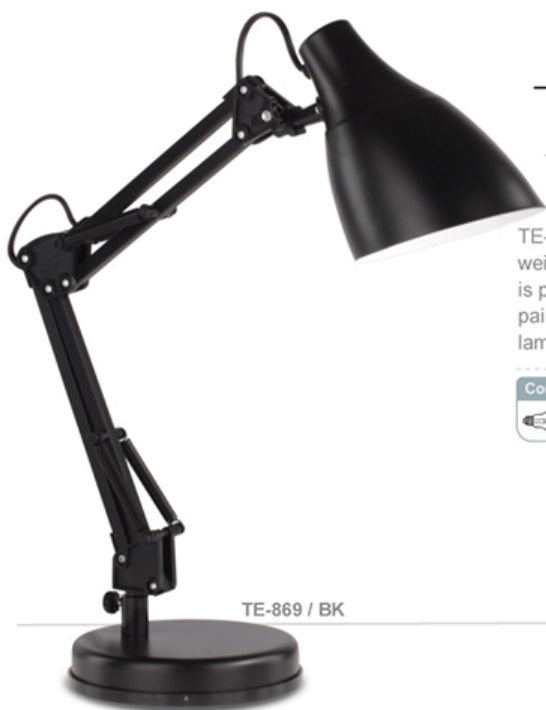
Optional LED Replacement	
 LED-GLS / E27 8W / 10W	



TE-858 / SV



TE-858 / BK



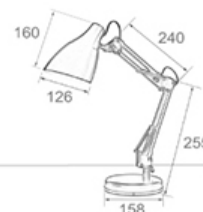
TE-869 / BK

TE-869

Table Lamp

TE-869 is a durable table stand arm lamp, designed for wide area. The weighted base is carefully calculate for optimum function. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature.

Compatible Bulb	
 GLS / E27 25W / 40W / 60W	 GENIE / E27 8W / 11W / 14W





TE-864

Table Lamp

TE-864 is a another medium size arm lamp with all time classic design. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature.

Compatible Bulb

GLS / E27
25W / 40W / 60W

GENIE / E27
8W / 11W / 14W

Optional LED Replacement

LED-GLS / E27
8W / 10W



TE-864 / RD



TE-864 / WH



TE-864 / BK

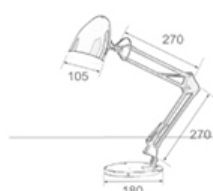


TE-254

Table Lamp

TE-254 is a heavy duty table lamp. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature. The lamp is suitable for compact fluorescent bulb.

Compatible Bulb	
 GLS / E27 25W / 40W / 60W	 GENIE / E27 8W / 11W / 14W



TE-254 / BL



TE-254 / BK



SL-109

Arm Lamp

SL-109 is a clamp arm lamp designed for multi-purpose functions. Small area is needed and yet could provide light for large area. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature. The lamp is suitable for compact fluorescent bulb.

Compatible Bulb	
 GLS / E27 25W / 40W / 60W	 GENIE / E27 8W / 11W / 14W



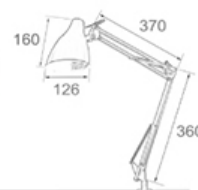
SL-109 / BK



SL-109 / BL



SL-109 / WH



TE-5244

Table Lamp



TE-5244 is a colorful table lamp with white flexible neck. The clean look makes TE-5244 suitable for several living areas. The inner metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature. The lamp is suitable for compact fluorescent bulb.

Compatible Bulb	
	GENIE / E27 8W / 11W / 14W



TE-5244 / PR

TE-5244 / OR

TE-5244 / GR

TE-287

Table Lamp

A simply-black look of TE-5235 with long flexible neck is designed for large working desks. The plastic shade and base is made of high quality plastic with matt finished. The lamp holder is made of porcelain to endure high temperature. The lamp is suitable for compact fluorescent bulb.

Compatible Bulb	
	GENIE / E27 8W / 11W / 14W



TE-287 / BK



TE-2901

Table Lamp

TE-2901 is designed for saving energy purpose, to compatible with compact fluorescent bulbs. The shade is colorful with white painted reflector for smooth light output. The outer shade and base is plastic with high glossy surface for easily cleaning. The lamp holder is made of porcelain to endure high temperature.

Compatible Bulb	
	GENIE / E27 8W / 11W / 14W

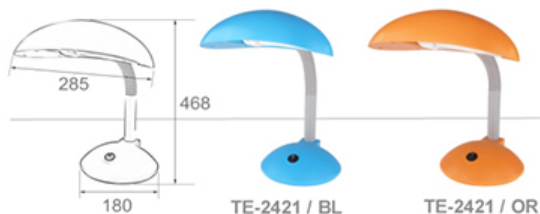


TE-2421

Table Lamp

TE-2421 is a practical table lamp, designed for saving energy purpose. The shade is colorful with white painted reflector for smooth light output. The outer shade and base is plastic with high glossy surface for easily cleaning. The lamp holder is made of porcelain to endure high temperature. The lamp is suitable for compact fluorescent bulb.





Compatible Bulb	
	GENIE / E27 8W / 11W / 14W



TE-5232

Table Lamp

TE-5232 is a high quality medium-size table lamp with flexible neck. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature.

Compatible Bulb		Optional LED Replacement							
	GLS / E27 25W / 40W / 60W		GENIE / E27 8W / 11W / 14W		LED-GLS / E27 8W / 10W	IP20			CE



TE-5240

Table Lamp

TE-5240 is a mini versatile table lamp for limited area. The shade could be adjustable vertically. The metal shade is painted in white for smooth light output. The outer shade and base are painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature.

Compatible Bulb			
	GLS / E27 25W / 40W / 60W		GENIE / E27 8W



TE-5238

Table Lamp

TE-5238 comes with big shade for more light output. The metal shade is painted in white for smooth light output. The inner and outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature.

Compatible Bulb		Optional LED Replacement					
	GLS / E27 25W / 40W / 60W		GENIE / E27 8W / 11W / 14W		LED-GLS / E27 8W / 10W		



TE-5238 / BL

TE-5238 / PK



TE-5245

Table Lamp

TE-5245 is a miniature duo color table lamp. The lamp holder cup is non-heated high -grade plastic. The metal shade is painted in white for smooth light output. The outer shade and base is painted with high glossy oil paint with anti-rust surface pre-treatment. The lamp holder is made of porcelain to endure high temperature.

Compatible Bulb		Optional LED Replacement	
	GLS / E27 25W / 40W / 60W		GENIE / E27 8W / 11W / 14W
	LED-GLS / E27 8W / 10W		



TE-5245 / RD



TE-5245 / BL



04



Downlight Luminaires

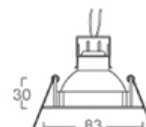
SECO downlight is one of general fixtures that are widely use for various applications. We have a variety of downlights for several purposes such as for home decorative, shop & showroom, and for special applications.



DRM-207

MR16 Recessed Downlight

- **Housing:** Die-cast aluminium
- **Painting:** Polyester powder painting
- **Adjustable:** Not adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

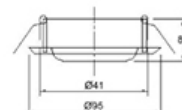
LED-MR16 / G5.3
4W / 6W



DRM-760

MR16 Recessed Downlight

- **Housing:** Die-cast aluminium
- **Painting:** Polyester powder painting
- **Adjustable:** Not adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

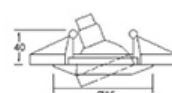
LED-MR16 / G5.3
4W / 6W



DRM-1CT

MR16 Recessed Downlight

- **Housing:** Cold-roll steel sheet housing
- **Painting:** Polyester powder painting
- **Adjustable:** Adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

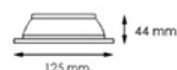
LED-MR16 / G5.3
4W / 6W



DRM-1CK

MR16 Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Painting:** Polyester powder painting
- **Reflector:** Anodized aluminium reflector
- **Adjustable:** Not adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

LED-MR16 / G5.3
4W / 6W



DRM-1CP

MR16 Recessed Downlight

- **Housing:** Die-cast aluminium
- **Painting:** Polyester powder painting
- **Adjustable:** Adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as hotels, restaurants, etc.



Compatible Bulb	
	MR16 / G5.3 35W / 50W

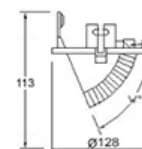
Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W



DRM-1CB

MR16 Recessed Downlight

- **Housing:** Die-cast aluminium
- **Painting:** Polyester powder painting
- **Adjustable:** Adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as hotels, restaurants, etc.



Compatible Bulb	
	MR16 / G5.3 35W / 50W

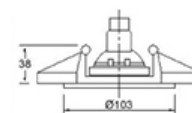
Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W



DRM-1TN

MR16 Recessed Downlight

- **Housing:** Die-cast aluminium
- **Painting:** Polyester powder painting
- **Adjustable:** Adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as hotels, restaurants, etc.



Compatible Bulb	
	MR16 / G5.3 35W / 50W

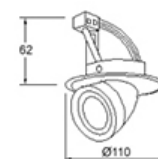
Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W



DRM-1CG

MR16 Recessed Downlight

- **Housing:** Die-cast aluminium
- **Painting:** Polyester powder painting
- **Adjustable:** Adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as hotels, restaurants, etc.



Compatible Bulb	
	MR16 / G5.3 35W / 50W

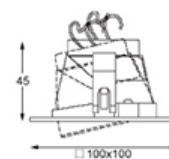
Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W



DRM-200

MR16 Square Recessed Downlight

- **Housing:** Die-cast aluminium
- **Adjustable:** Adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb	
	MR16 / G5.3 35W / 50W

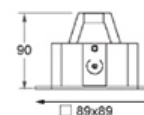
Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W



DRM-201

MR16 Square Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Adjustable:** Not adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb	
	MR16 / G5.3 35W / 50W

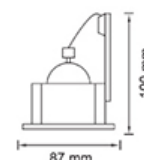
Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W



DRM-202

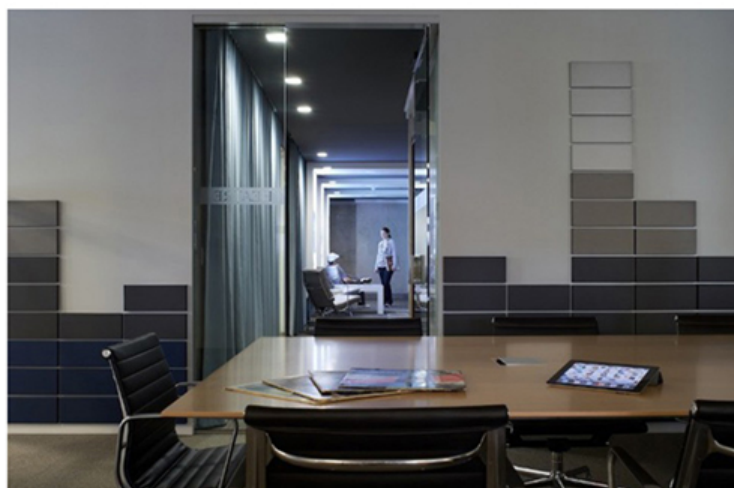
MR16 Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Adjustable:** Not adjustable
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb	
	MR16 / G5.3 35W / 50W

Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W

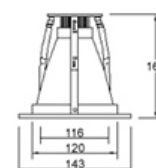




DRV-430

Recessed 4-inch Vertical Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb			
	PLS / G23 7W		PLC / G24d-1 13W
	PL / E27 14W		

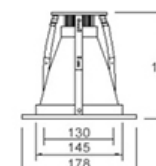
Optional LED Replacement	
	LED-GLS / E27 8W / 10W



DRV-530

Recessed 5-inch Vertical Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb			
	PLS / G23 7W / 9W		PLC / G24d-x 13W / 18W
	PL / E27 14W / 18W		

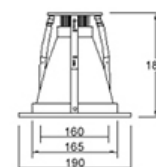
Optional LED Replacement	
	LED-GLS / E27 8W / 10W



DRV-630

Recessed 6-inch Vertical Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb			
	PLS / G23 9W		PLC / G24d-x 18W / 26W
	PL / E27 18W		

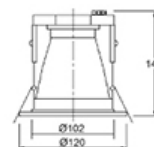
Optional LED Replacement	
	LED-GLS / E27 8W / 10W



DRH-301

Recessed 3-inch Round Downlight

- **Housing:** Cold-roll steel sheet, coated with white polyester powder
- **Reflector:** Aluminium reflector
- **Diffuser:** Glass cover with steel frame
- **Installation:** Recessed mounting.
- Suitable for general decoration such as hotels, etc.



Compatible Bulb

PLC / G24d-1
13W

Optional LED Replacement

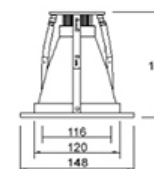
LED-GLS / E27
8W / 10W



DRV-431

Recessed 4-inch Vertical Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Diffuser:** Glass diffuser
- **Installation:** Recessed mounting.
- Suitable for general decoration such as hotels, etc.



Compatible Bulb

PLS / G23
7W

PLC / G24d-1
13W

PL / E27
14W / 18W

Optional LED Replacement

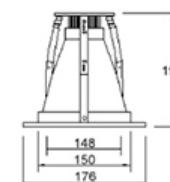
LED-GLS / E27
8W / 10W



DRV-531

Recessed 5-inch Vertical Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Diffuser:** Glass diffuser
- **Installation:** Recessed mounting.
- Suitable for general decoration such as hotels, etc.



Compatible Bulb

PLS / G23
7W / 9W

PLC / G24d-x
13W / 18W

PL / E27
14W / 18W

Optional LED Replacement

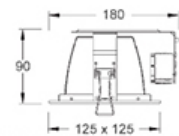
LED-GLS / E27
8W / 10W



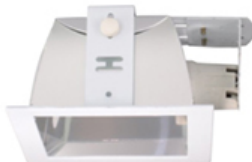
DRH-440

Recessed Square Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for general decoration such as residences, hotels, etc.



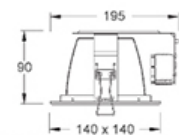
Compatible Bulb		
	PLS / G23 7W (x1)	
		PLC / G24d-1 13W (x1)
		
		PL / E27 14W / 18W (x1)



DRH-540

Recessed Square Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for general decoration such as residences, hotels, etc.



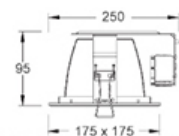
Compatible Bulb		
	PLS / G23 7W / 9W (x1)	
		PLC / G24d-x 13W / 18W (x1)
		
		PL / E27 14W / 18W (x1)




DRH-640

Recessed Square Downlight

- **Housing:** Cold-roll steel chsset, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for general decoration such as residences, hotels, etc.



Compatible Bulb		
	PLS / G23 9W (x2)	
		PLC / G24d-x 18W / 26W (x2)
		
		PL / E27 18W (x2)

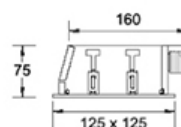


DRH-431

Recessed 4-inch Square Downlight

- **Housing:** Cold-roll steel sheet, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Glass cover with aluminium die-casting frame
- **Installation:** Recessed T-bar and gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.

Compatible Bulb	
	PLC / G24d-1 13W (x1)



DRH-631

Recessed 6-inch Square Downlight

- **Housing:** Cold-roll steel sheet, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Glass cover with aluminium die-casting frame
- **Installation:** Recessed T-bar and gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.

Compatible Bulb			
	PLS / G23 9W (x2)		PLC / G24d-x 13W / 18W (x2)
			PL / E27 18W (x2)

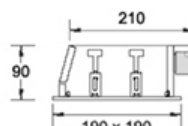


DRH-731

Recessed 7-inch Square Downlight

- **Housing:** Cold-roll steel sheet, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Glass cover with aluminium die-casting frame
- **Installation:** Recessed T-bar and gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.

Compatible Bulb	
	PLC / G24d-x 18W / 26W (x2)
	PL / E27 18W / 23W (x2)

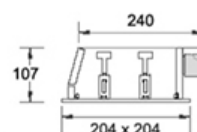


DRH-831

Recessed 8-inch Square Downlight

- **Housing:** Cold-roll steel sheet, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Glass cover with aluminium die-casting frame
- **Installation:** Recessed T-bar and gypsum mounting.
- Suitable for general decoration such as residences, hotels, etc.

Compatible Bulb	
	PLC / G24d-x 18W / 26W (x2)
	PL / E27 18W / 23W (x2)

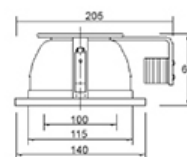




DRH-487

Recessed 4-inch Horizontal Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for general decoration such as hotels, restaurants, etc.



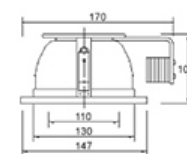
Compatible Bulb	
PLS / G23 7W / 13W (x1)	PL / E27 8W / 14W (x1)



DRH-587

Recessed 5-inch Horizontal Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for general decoration such as hotels, restaurants, etc.



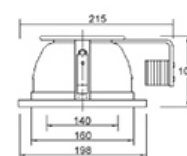
Compatible Bulb		
PLS / G23 7W (x2)	PLC / G24d-x 13W / 18W (x2)	PL / E27 14W / 18W (x2)



DRH-687

Recessed 6-inch Horizontal Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for general decoration such as hotels, restaurants, etc.



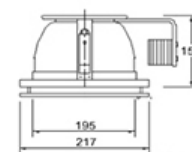
Compatible Bulb		
PLS / G23 9W (x2)	PLC / G24d-2 18W (x2)	PL / E27 14W / 18W (x2)



DRH-887

Recessed 8-inch Horizontal Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for general decoration such as hotels, restaurants, etc.



Compatible Bulb		
PLS / G23 9W (x2)	PLC / G24d-3 26W (x2)	PL / E27 18W / 23W (x2)

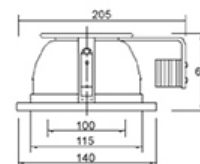


DRH-402

Recessed 4-inch Horizontal Downlight



- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Control box:** Built-in gear tray
- **Installation:** Recessed mounting
- Suitable for general decoration such as residences, hotels, etc.



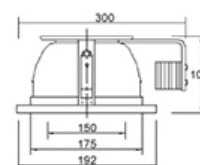
Compatible Bulb	
 PLC / G24d/1 13W (x1)	 PL / E27 14W (x1)

DRH-603

Recessed 6-inch Horizontal Downlight



- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Diffuser:** Glass cover with steel frame
- **Installation:** Recessed mounting
- Suitable for general decoration such as residences, hotels, etc.



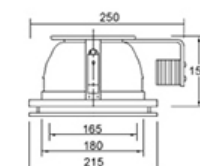
Compatible Bulb		
 PLS / G23 9W (x2)	 PLC / G24d-x 13W / 18W (x2)	 PL / E27 18W (x2)

DRH-822

Recessed 8-inch Horizontal Downlight



- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Diffuser:** Glass cover
- **Installation:** Recessed mounting
- Suitable for general decoration such as residences, hotels, etc.



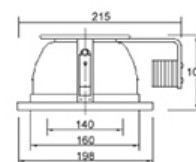
Compatible Bulb	
 PLC / G24d/3 26W (x2)	 PL / E27 18W / 23W (x2)



DRH-614

6-inch Recessed Louver Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed mounting
- Suitable for general decoration such as residences, hotels, etc.



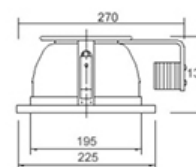
Compatible Bulb			
	PLS / G23 7W (x2)		PLC / G24d-x 13W / 18W (x2)
	PL / E27 14W / 18W (x2)		



DRH-814

8-inch Recessed Louver Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed mounting
- Suitable for general decoration such as residences, hotels, etc.



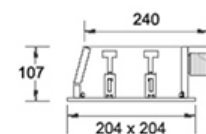
Compatible Bulb			
	PLS / G23 9W (x2)		PLC / G24d-3 26W (x2)
	PL / E27 18W / 23W (x2)		



DRH-914

Square Recessed Louver Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed mounting
- Suitable for general decoration such as residences, hotels, etc.



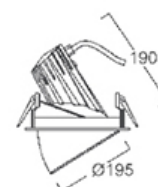
Compatible Bulb			
	PLS / G23 9W (x2)		PLC / G24d-x 13W / 18W (x2)
	PL / E27 18W (x2)		



DRV-905

HID Recessed Downlight

- **Housing:** Die-cast aluminium housing with white polyester powder, require separate control gear
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Glass cover
- **Installation:** Recessed mounting.
- Suitable for malls, shops, or showrooms decoration



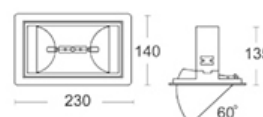
Compatible Bulb	
	CDM-T / G12 35W / 70W / 150W



DRV-105

HID Recessed Downlight

- **Housing:** Cold-roll steel sheet housing with die-cast aluminium trim, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Tempered glass cover with die cast aluminium frame
- **Installation:** Recessed mounting
- Suitable for shops, hotels, or showrooms decoration



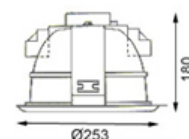
Compatible Bulb	
	MHN-TD / RX7s 70W / 150W



DRV-800

HID Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Tempered glass cover with steel frame
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for malls, shops, or showrooms decoration



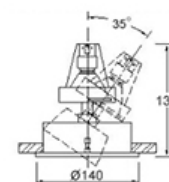
Compatible Bulb	
	MHN-TD / RX7s 70W / 150W



DRV-219

Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Adjustable:** 35 Degree adjustable
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for general decoration such as hotels, shops, etc.



Compatible Bulb

PAR20 / E27
50W

Optional LED Replacement

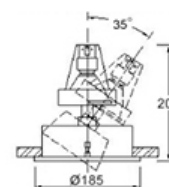
LED-PAR20 / E27
6W



DRV-319

Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Adjustable:** 35 Degree adjustable
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for general decoration such as hotels, shops, etc.



Compatible Bulb

PAR30 / E27
75W

Optional LED Replacement

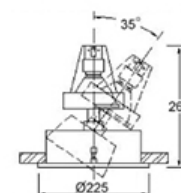
LED-PAR30 / E27
12W



DRV-419

Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Adjustable:** 35 Degree adjustable
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for general decoration such as hotels, shops, etc.



Compatible Bulb

PAR38 / E27
80W / 120W

Optional LED Replacement

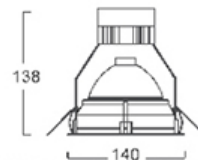
LED-PAR38 / E27
15W



DRV-901

HID Recessed Downlight

- **Housing:** Cold-roll steel sheet housing with die-cast aluminium trim, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Tempered glass cover
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shops, hotels, or showrooms decoration



Compatible Bulb

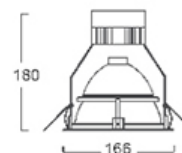
CDM-T / G12
35W / 70W / 150W



DRV-902

HID Recessed Downlight

- **Housing:** Cold-roll steel sheet housing with die-cast aluminium trim, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Tempered glass cover
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shops, hotels, or showrooms decoration



Compatible Bulb

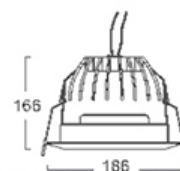
CDM-T / G12
35W / 70W / 150W



DRV-903

HID Recessed Downlight

- **Housing:** Cold-roll steel sheet housing with die-cast aluminium trim, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Tempered glass cover with die cast aluminium frame
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shops, hotels, or showrooms decoration



Compatible Bulb

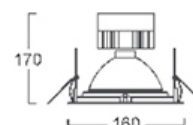
CDM-T / G12
35W / 70W / 150W



DRV-904

HID Recessed Downlight

- **Housing:** Cold-roll steel sheet housing with die-cast aluminium trim, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Tempered glass cover with die cast aluminium frame
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shops, hotels, or showrooms decoration



Compatible Bulb

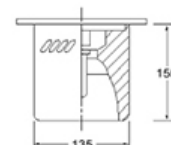
CDM-T / G12
35W / 70W / 150W



DSV-004

4-inch Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, restaurants, etc.



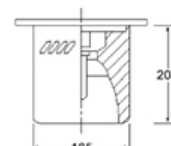
Compatible Bulb		Optional LED Replacement	
	PLS / G23 7W		LED-GLS / E27 8W / 10W



DSV-006

6-inch Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, restaurants, etc.



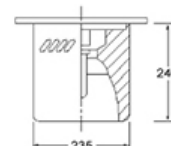
Compatible Bulb			Optional LED Replacement	
	PLS / G23 7W / 9W			LED-GLS / E27 8W / 10W



DSV-008

8-inch Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, restaurants, etc.



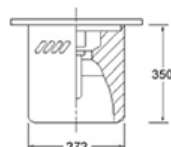
Compatible Bulb		
	PLS / G23 9W	



DSV-010

10-inch Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, restaurants, etc.



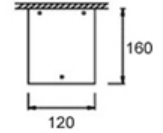
Compatible Bulb		
	HPS-E / E27 70W / 150W	



DSV-024

4-inch Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, restaurants, etc.



Compatible Bulb	
	PLS / G23 7W
	PL / E27 8W / 11W

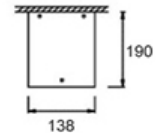
Optional LED Replacement	
	LED-GLS / E27 8W / 10W



DSV-025

5-inch Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, restaurants, etc.



Compatible Bulb	
	PLC / G24d-x 13W / 18W
	PL / E27 14W

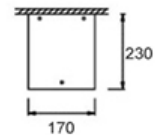
Optional LED Replacement	
	LED-GLS / E27 8W / 10W



DSV-026

6-inch Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, restaurants, etc.



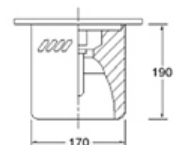
Compatible Bulb	
	PLC / G24d-x 13W / 18W
	PL / E27 14W / 18W / 20W



DSV-016

6-inch Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Diffuser:** Frosted glass cover
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, restaurants, etc.



Compatible Bulb	
	PLC / G24d-x 13W / 18W
	PL / E27 14W / 18W / 20W



DSV-101

Square Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant
- Suitable for general decoration such as shops, hotels, restaurants, etc.

Compatible Bulb	
	MR16 / G5.3 35W / 50W (x1)

Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W (x1)



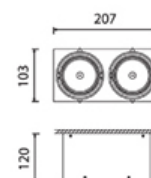
DSV-102

Square Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant
- Suitable for general decoration such as shops, hotels, restaurants, etc.

Compatible Bulb	
	MR16 / G5.3 35W / 50W (x2)

Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W (x2)



DSV-201

Square Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant
- Suitable for general decoration such as shops, hotels, restaurants, etc.

Compatible Bulb	
	PLC / G24d-x 13W / 18W (x1)
	PL / E27 14W / 18W (x1)

Optional LED Replacement	
	LED-GLS / E27 8W / 10W (x1)



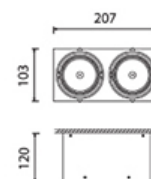
DSV-202

Square Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant
- Suitable for general decoration such as shops, hotels, restaurants, etc.

Compatible Bulb	
	PLC / G24d-x 13W / 18W (x2)
	PL / E27 14W / 18W (x2)

Optional LED Replacement	
	LED-GLS / E27 8W / 10W (x2)





DSV-301

Square Surface Mounted Downlight

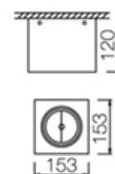
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, hotels, restaurants, etc.

Compatible Bulb

QR111 / G5.3
75W / 100W (x1)

Optional LED Replacement

LED-QR111 / G5.3
12W (x1)



DSV-302

Square Surface Mounted Downlight

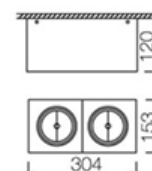
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, hotels, restaurants, etc.

Compatible Bulb

QR111 / G5.3
75W / 100W (x2)

Optional LED Replacement

LED-QR111 / G5.3
12W (x2)



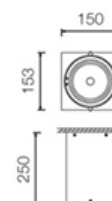
DSV-901

Square Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Diffuser:** Frosted glass cover
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, hotels, restaurants, etc.

Compatible Bulb

CDM-T / G12
35W / 70W (x1)



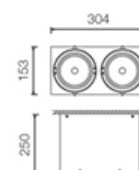
DSV-902

Square Surface Mounted Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Diffuser:** Frosted glass cover
- **Installation:** Surface mounting or pendant.
- Suitable for general decoration such as shops, hotels, restaurants, etc.

Compatible Bulb

CDM-T / G12
35W / 70W (x2)



DRV-312

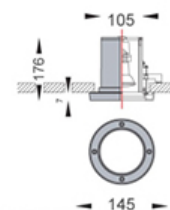
Weatherproof Recessed Downlight



- **Housing:** Die-cast aluminium alloy and extruded aluminium alloy
- **Painting:** Epoxy resin coated on top with UV stabilized polyester powder
- **Diffuser:** Impact resistant safety tempered glass cover
- **Working Temperature:** -40°C to +130°C
- **Installation:** Recessed T-bar or gypsum mounting.

Compatible Bulb	
	PAR20 / E27 50W

Optional LED Replacement	
	LED-PAR20 / E27 6W



DRV-302

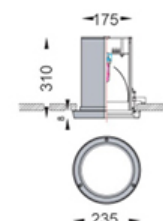
Weatherproof Recessed Downlight



- **Housing:** Die cast aluminium alloy and extruded aluminium alloy
- **Painting:** Epoxy resin coated on top with UV stabilized polyester powder
- **Diffuser:** Impact resistant safety tempered glass cover
- **Working Temperature:** -40°C to +200°C
- **Installation:** Recessed T-bar or gypsum mounting.

Compatible Bulb	
	PAR38 / E27 80W / 120W

Optional LED Replacement	
	LED-PAR38 / E27 15W



DRV-332

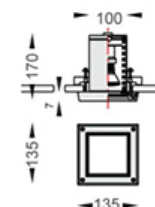
Weatherproof Recessed Downlight



- **Housing:** Die cast aluminium alloy and extruded aluminium alloy
- **Painting:** Epoxy resin coated on top with UV stabilized polyester powder
- **Diffuser:** Impact resistant safety tempered glass cover
- **Working Temperature:** -40°C to +200°C
- **Installation:** Recessed T-bar or gypsum mounting.

Compatible Bulb	
	PAR20 / E27 50W

Optional LED Replacement	
	LED-PAR20 / E27 6W



DRV-322

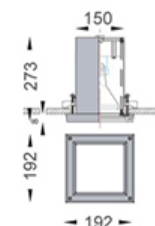
Weatherproof Recessed Downlight



- **Housing:** Cold-roll steel sheet, coated with white polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Tempered glass cover with die cast aluminium trim
- **Installation:** Recessed T-bar or gypsum mounting.
- Suitable for shops, hotels, showrooms, stores decoration

Compatible Bulb	
	PAR30 / E27 75W

Optional LED Replacement	
	LED-PAR30 / E27 12W

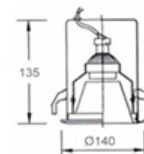




DRM-220

MR16 Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Adjustable:** Not adjustable
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shops, hotels, showrooms, stores decoration



Compatible Bulb
MR16 / G5.3
35W / 50W

Optional LED Replacement
LED-MR16 / G5.3
4W / 6W



DRM-221

MR16 Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Adjustable:** Adjustable
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, showroom, store decoration



Compatible Bulb
MR16 / G5.3
35W / 50W

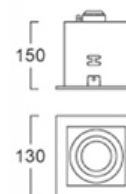
Optional LED Replacement
LED-MR16 / G5.3
4W / 6W



DRG-051

1-Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium reflector
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, showroom, store decoration



Compatible Bulb
PLC / G24d-x
13W / 18W (x1)

Optional LED Replacement
PL / E27
14W / 18W (x1)

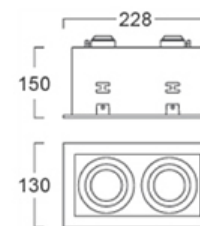
Optional LED Replacement
LED-GLS / E27
8W / 10W (x1)



DRG-052

2-Multiple Recessed Downlight

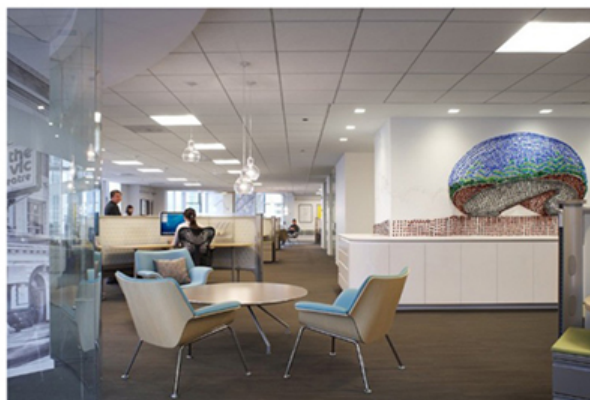
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, showroom, store decoration



Compatible Bulb
PLC / G24d-x
13W / 18W (x2)

Optional LED Replacement
PL / E27
14W / 18W (x2)

Optional LED Replacement
LED-GLS / E27
8W / 10W (x2)



DRG-711

1-Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Installation:** Recessed mounting.
- Suitable for shop, hotel, showroom, store decoration



Compatible Bulb

PLC / G24d-x
13W (x1)

PL / E27
14W (x1)

Optional LED Replacement

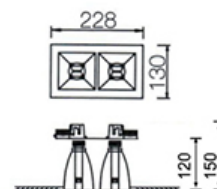
LED-GLS / E27
8W / 10W (x1)



DRG-712

2-Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Installation:** Recessed mounting.
- Suitable for shop, hotel, showroom, store decoration



Compatible Bulb

PLC / G24d-x
13W (x2)

PL / E27
14W (x2)

Optional LED Replacement

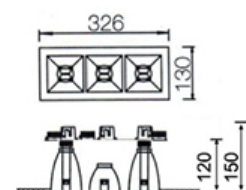
LED-GLS / E27
8W / 10W (x2)



DRG-713

3-Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Installation:** Recessed mounting.
- Suitable for shop, hotel, showroom, store decoration



Compatible Bulb

PLC / G24d-x
13W (x3)

PL / E27
14W (x3)

Optional LED Replacement

LED-GLS / E27
8W / 10W (x3)



DRG-011

1-Multiple Recessed Downlight

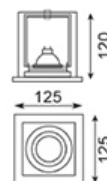
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Painting:** Polyester power painting
- **Adjustable:** 30 degree adjustable
- **Installation:** Recessed T-bar or gypsum ceiling mounting
- Suitable for shop, hotel, showroom, store decoration

Compatible Bulb

MR16 / G5.3
35W / 50W (x1)

Optional LED Replacement

LED-MR16 / G5.3
4W / 6W (x1)



DRG-012

2-Multiple Recessed Downlight

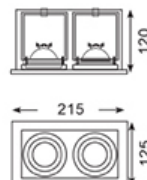
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Painting:** Polyester power painting
- **Adjustable:** 30 degree adjustable
- **Installation:** Recessed T-bar or gypsum ceiling mounting
- Suitable for shop, hotel, showroom, store decoration

Compatible Bulb

MR16 / G5.3
35W / 50W (x2)

Optional LED Replacement

LED-MR16 / G5.3
4W / 6W (x2)



DRG-013

3-Multiple Recessed Downlight

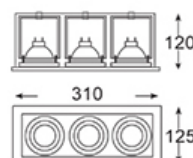
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Painting:** Polyester power painting
- **Adjustable:** 30 degree adjustable
- **Installation:** Recessed T-bar or gypsum ceiling mounting
- Suitable for shop, hotel, showroom, store decoration

Compatible Bulb

MR16 / G5.3
35W / 50W (x3)

Optional LED Replacement

LED-MR16 / G5.3
4W / 6W (x3)



DRG-022

4-Multiple Recessed Downlight

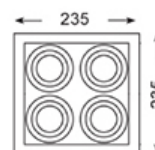
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Painting:** Polyester power painting
- **Adjustable:** 30 degree adjustable
- **Installation:** Recessed T-bar or gypsum ceiling mounting
- Suitable for shop, hotel, showroom, store decoration

Compatible Bulb

MR16 / G5.3
35W / 50W (x4)

Optional LED Replacement

LED-MR16 / G5.3
4W / 6W (x4)





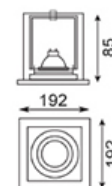
DRG-811

1-Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Adjustable:** 30 Degree adjustable
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, restaurant decoration

Compatible Bulb	
	QR111 / G5.3 75W / 100W (x1)

Optional LED Replacement	
	LED-QR111 / G5.3 12W (x1)



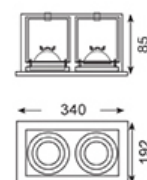
DRG-812

2-Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Adjustable:** 30 Degree adjustable
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, restaurant decoration

Compatible Bulb	
	QR111 / G5.3 75W / 100W (x2)

Optional LED Replacement	
	LED-QR111 / G5.3 12W (x2)



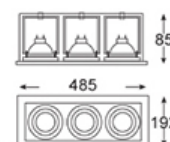
DRG-813

3-Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Adjustable:** 30 Degree adjustable
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, restaurant decoration

Compatible Bulb	
	QR111 / G5.3 75W / 100W (x3)

Optional LED Replacement	
	LED-QR111 / G5.3 12W (x3)



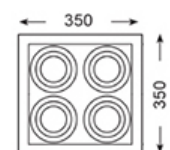
DRG-822

4-Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Adjustable:** 30 Degree adjustable
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, restaurant decoration

Compatible Bulb	
	QR111 / G5.3 75W / 100W (x4)

Optional LED Replacement	
	LED-QR111 / G5.3 12W (x4)





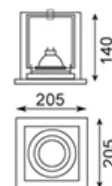
DRG-911

1 Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Frosted glass diffuser
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, restaurant decoration

Compatible Bulb

CDM-T / G12
35W / 70W (x1)



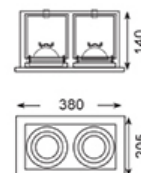
DRG-912

2 Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Frosted glass diffuser
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, restaurant decoration

Compatible Bulb

CDM-T / G12
35W / 70W (x2)



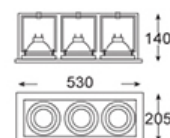
DRG-913

3 Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Frosted glass diffuser
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, restaurant decoration

Compatible Bulb

CDM-T / G12
35W / 70W (x3)



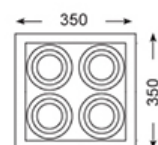
DRG-922

4 Multiple Recessed Downlight

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Frosted glass diffuser
- **Installation:** Recessed T-bar or gypsum mounting
- Suitable for shop, hotel, restaurant decoration

Compatible Bulb

CDM-T / G12
35W / 70W (x4)



05



Track Light Luminaires

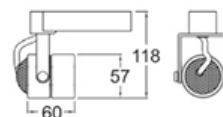
Track light luminaires are suitable for shops, showrooms, stores, or department stores decoration. Track light luminaires could emphasize a specific object or space and also create a specific mood and tone of the area.



TRA-900

Track Light Luminaire

- **Housing:** Corrosion resistant extruded aluminium
- **Painting:** Polyester powder coated in white or black
- **Control gear:** Built-in electronic transformer 220V 50Hz
- Suitable for focus lighting such as in shops, restaurants, etc.



Compatible Bulb	
	MR16 / G5.3 35W / 50W

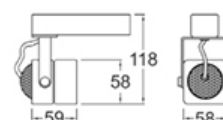
Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W



TRA-901

Track Light Luminaire

- **Housing:** Corrosion resistant extruded aluminium
- **Painting:** Polyester powder coated in white or black
- **Control gear:** Built-in electronic transformer 220V 50Hz
- Suitable for focus lighting such as in shops, restaurants, etc.



Compatible Bulb	
	MR16 / G5.3 35W / 50W

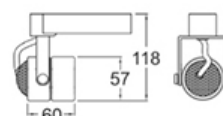
Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W



TRA-902

Track Light Luminaire

- **Housing:** Corrosion resistant extruded aluminium
- **Painting:** Polyester powder coated in white or black
- **Control gear:** Built-in electronic transformer 220V 50Hz
- Suitable for focus lighting such as in shops, restaurants, etc.



Compatible Bulb	
	MR16 / G5.3 35W / 50W

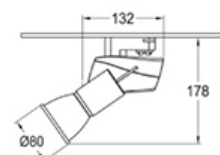
Optional LED Replacement	
	LED-MR16 / G5.3 4W / 6W



TRA-009

Track Light Luminaire

- **Housing:** Corrosion resistant die casting aluminium
- **Painting:** Polyester powder coated in White
- **Gear Box:** Built-in die casting aluminium control gear
- Suitable for general decoration such as showroom, shop, etc.



Compatible Bulb

MR16 / G5.3
35W / 50W

PAR16 / GU10
50W

Optional LED Replacement

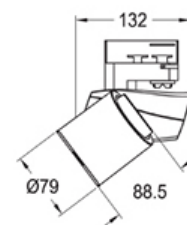
LED-MR16 / G5.3
4W / 6W



TRA-010

Track Light Luminaire

- **Housing:** Corrosion resistant die casting aluminium
- **Painting:** Polyester powder coated in White
- **Gear Box:** Built-in die casting aluminium control gear
- Suitable for general decoration such as showroom, shop, etc.



Compatible Bulb

MR16 / G5.3
35W / 50W

PAR16 / GU10
50W

Optional LED Replacement

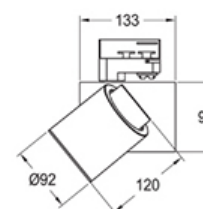
LED-MR16 / G5.3
4W / 6W



TRA-014

Track Light Luminaire

- **Housing:** Corrosion resistant die casting aluminium
- **Painting:** Polyester powder coated in White
- **Gear Box:** Built-in die casting aluminium control gear
- Suitable for general decoration such as showroom, shop, etc.



Compatible Bulb

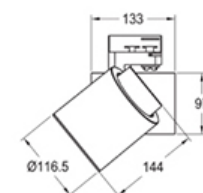
CDM-TC / G8.5
35W / 70W



TRA-015

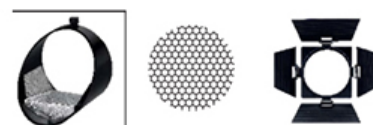
Track Light Luminaire

- **Housing:** Corrosion resistant die casting aluminium
- **Painting:** Polyester powder coated in White
- **Gear Box:** Built-in die casting aluminium control gear
- Suitable for general decoration such as showroom, shop, etc.



Compatible Bulb

CDM-T / G12
35W / 70W / 150W





TRA-000

Track Light Luminaire

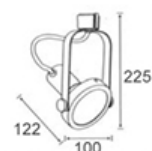
- **Housing:** Steel metal housing
- **Painting:** Polyester powder coated
- **Adjustable:** 360 Degree adjustable
- Suitable for general decoration such as showroom, shop, etc.

Compatible Bulb

PAR30 / E27
75W

Optional LED Replacement

LED-PAR30 / E27
12W



TRA-001

Track Light Luminaire

- **Housing:** Steel metal housing
- **Painting:** Polyester powder coated
- **Adjustable:** 360 Degree adjustable
- Suitable for general decoration such as showroom, shop, etc.

Compatible Bulb

PAR38 / E27
80W / 120W

Optional LED Replacement

LED-PAR38 / E27
15W



TRA-002

Track Light Luminaire

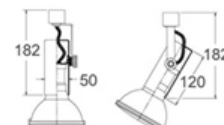
- **Housing:** Steel metal housing
- **Painting:** Polyester powder coated
- **Adjustable:** 360 Degree adjustable
- Suitable for general decoration such as showroom, shop, etc.

Compatible Bulb

PAR38 / E27
80W / 120W

Optional LED Replacement

LED-PAR38 / E27
15W



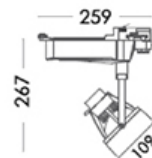


TRA-284

HID Track Light Luminaire

- **Housing:** Die-cast aluminium body
- **Painting:** Polyester powder coated
- **Reflector:** Aluminium reflector in prism
- **Gear Box:** Built-in die casting aluminium control gear
- Suitable for general decoration such as showroom, shop, etc.

Compatible Bulb	
	CDM-T / G12 70W

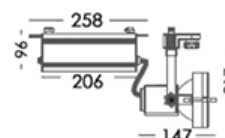


TRA-299

HID Track Light Luminaire

- **Housing:** Die-cast aluminium body
- **Painting:** Polyester powder coated
- **Reflector:** Aluminium reflector in prism with glass diffuser
- **Gear Box:** Built-in die casting aluminium control gear
- Suitable for general decoration such as showroom, shop, etc.

Compatible Bulb	
	CDM-T / G12 70W

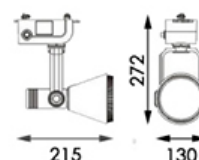


TRA-302

HID Track Light Luminaire

- **Housing:** Die-cast aluminium body
- **Painting:** Polyester powder coated
- **Diffuser:** UV-protection transparent toughen glass
- **Gear Box:** Built-in die casting aluminium control gear
- Suitable for general decoration such as showroom, shop, etc.

Compatible Bulb	
	CDM-T / G12 70W

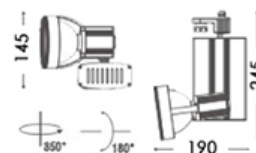


TRA-304

HID Track Light Luminaire

- **Housing:** Die-cast aluminium body
- **Painting:** Polyester powder coated
- **Diffuser:** UV-protection transparent toughen glass
- **Gear Box:** Built-in die casting aluminium control gear
- Suitable for general decoration such as showroom, shop, etc.

Compatible Bulb	
	CDM-T / G12 70W





TRA-BS1

Surface 1-Phase Circuit Track

- **Housing:** Extruded aluminium profile
- **Painting:** Polyester powder coated
- **Circuit:** 240V, 15A
- **Length:** 1m, 2m, 3m



TRA-BR1

Recessed 1-Phase Circuit Track

- **Housing:** Extruded aluminium profile
- **Painting:** Polyester powder coated
- **Circuit:** 240V, 15A
- **Length:** 1m, 2m, 3m

TRA-1EN



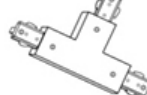
TRA-1ST



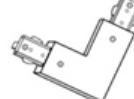
TRA-1X



TRA-1T



TRA-1L



TRA-1C



TRA-BS3

Surface 3-Phase Circuit Track

- **Housing:** Extruded aluminium profile
- **Painting:** Polyester powder coated
- **Circuit:** 240V, 15A
- **Length:** 1m, 2m, 3m



TRA-BR3

Recessed 3-Phase Circuit Track

- **Housing:** Extruded aluminium profile
- **Painting:** Polyester powder coated
- **Circuit:** 240V, 15A
- **Length:** 1m, 2m, 3m

TRA-3EN



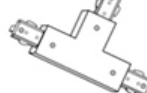
TRA-3ST



TRA-3X



TRA-3T



TRA-3L



TRA-3C



06



Ceiling Light Luminaires

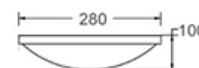
Ceiling light is one of the most popular fixtures that widely use for residential, such as in a living room, dining room, bedroom, etc. Most of ceiling light is designed for smooth lighting distribution with minimum glare.



CEI-703

Ceiling Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



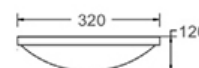
Compatible Bulb	
TL-E / G10q 22W	GENIE / E27 18W (x1)



CEI-803

Ceiling Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



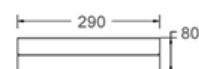
Compatible Bulb	
TL-E / G10q 32W	GENIE / E27 18W (x2)



CEI-024

Ceiling Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



Compatible Bulb	
TL-E / G10q 22W	GENIE / E27 18W (x1)



CEI-005

Ceiling 32w Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



Compatible Bulb	
GENIE / E27 14W / 18W	



CEI-099-6

Ceiling Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



Compatible Bulb	
	GENIE / E27 14W



CEI-099-8

Ceiling Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



Compatible Bulb	
	GENIE / E27 14W / 18W



CEI-099-10

Ceiling Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



Compatible Bulb	
	GENIE / E27 14W / 18W



CEI-041

Ceiling Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal acrylic diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



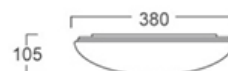
Compatible Bulb	
TL-E / G10q 22W	GENIE / E27 18W (x1)



CEI-042

Ceiling Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal acrylic diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



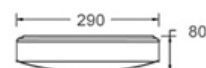
Compatible Bulb	
TL-E / G10q 32W	GENIE / E27 18W (x2)



CEI-061

Ceiling Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal acrylic diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



Compatible Bulb	
TL-E / G10q 22W	GENIE / E27 18W (x1)



CEI-062

Ceiling Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal acrylic diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



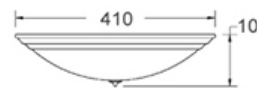
Compatible Bulb	
TL-E / G10q 32W	GENIE / E27 18W (x2)



CEI-101

Ceiling 32w Lamp

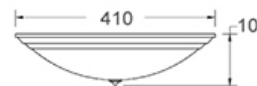
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



CEI-701

Ceiling 32w Lamp

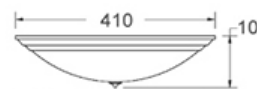
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



CEI-004

Ceiling 32w Lamp

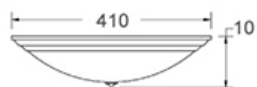
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



CEI-005

Ceiling 32w Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas





CEI-006

Ceiling 32w Lamp

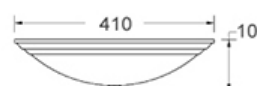
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



CEI-007

Ceiling 32w Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



CEI-008

Ceiling 32w Lamp

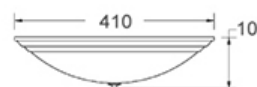
- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas



CEI-009

Ceiling 32w Lamp

- **Housing:** Cold-roll steel sheet, coated with polyester powder
- **Diffuser:** Opal glass diffuser
- **Installation:** Surface mounting
- Suitable for general decoration in residential areas





Exit & Emergency Light

Exit and emergency light are now standard in new commercial and high occupancy residential buildings. It is a battery-backed lighting device that comes on automatically when a building experiences a power outage, also including relevant components.



CP LED

Self-Contained Emergency LED Lighting

SPECIFICATION

- Non-maintained
- LED spot light (wide beam) with 180° adjustable sets and plastic-cover for anti-dust
- Aluminium reflector for heat extraction
- Current and Voltage are controlled by Micro Processor Driver circuit
- AC 220 Volt, 50 Hz, $\pm 10\%$ - Single phase
- Electro-galvanized steel sheet 1mm. with epoxy powder and stove enamel coated anti-rust corrosion proof.
- Sealed lead acid battery, based on ISO9001 and ISO14001 certification
- Solid state system automatic battery charger
- Constant voltage charging systems
- Switching regulated transformer
- 12-15 hours charging period.

SAFETY FEATURES

- Low-high voltage cut-off, prevention battery over charge & discharge
- AC fuse-preventing short circuit and overload for main incoming AC220 Volt
- DC fuse-preventing short circuit and overload for charging & load
- Infrared-remote test
- AC Plug with ground

CP Series—Spotlight LED type (ED)

MODEL NO	BATTERY	BULBS		DIMENSION L x W x H (cm)	DURATION (Hrs-mins) $\pm 10\%$
		LED (Watt)	EQUIVALENT TO HA-Watt		
CP 04 - 6 ED	12V. 5.0Ah.	2 x 6w.	2 x 15-20w.	26 x 8.5 x 21.5	4.30
CP 07 - 9 ED	12V. 7.0Ah.	2 x 9w.	2 x 45-50w.	26 x 8.5 x 21.5	4.30
CP 07 - 12 ED	12V. 9.0Ah.	2 x 12w.	2 x 75-80w.	26 x 8.5 x 21.5	4.3



MB Series

Self-Contained Emergency

SPECIFICATION

- Non-maintained
- Dichroic halogen, with 180° adjustable sets and plastic-cover anti-dust
- AC 220 Volt, 50 Hz, $\pm 10\%$ - Single phase
- Electro-galvanized steel sheet 1mm. with epoxy powder and stove enamel coated anti-rust corrosion proof.
- Sealed lead acid battery, based on ISO9001 and ISO14001 certification
- Solid state system automatic battery charger
- Constant voltage charging systems
- Switching regulated transformer
- 14-20 hours charging period.

SAFETY FEATURES

- Low-high voltage cut-off, prevention battery over charge & discharge
- AC fuse-preventing short circuit and overload for main incoming AC220 Volt
- DC fuse-preventing short circuit and overload for charging & load

MB Series - Dichroic Halogen (Square)

MODEL NO	BATTERY	BULB (Watt)	DIMENSION L x W x H (cm)	DURATION (Hrs-mins) $\pm 10\%$
MB 07	12V. 7.0Ah.	2 x 20w.	29.5 x 8.5 x 28	1.40
MB 15	12V. 15.0Ah.	2 x 35w.	31 x 8.5 x 32	2.00
MB 24	12V. 24.0Ah.	2 x 55w.	31 x 8.5 x 32	2.00



MB LED

Self-Contained Emergency LED Lighting



SPECIFICATION

- Non-maintained
- LED lamp with 180° adjustable sets and plastic-cover anti-dust
- AC 220 Volt, 50 Hz, $\pm 10\%$ - Single phase
- Electro-galvanized steel sheet 1mm. with epoxy powder and stove enamel coated anti-rust corrosion proof or Standard ABS casting
- Sealed lead acid battery, based on ISO9001 and ISO14001 certification
- Solid state system automatic battery charger
- Constant voltage charging systems
- Switching regulated transformer
- 14-20 hours charging period.

SAFETY FEATURES

- Low-high voltage cut-off, prevention battery over charge & discharge
- AC fuse-preventing short circuit and overload for main incoming AC220 Volt
- DC fuse-preventing short circuit and overload for charging & load

MB Series - LED type (ED)

MODEL NO	BATTERY	BULBS		DIMENSION L x W x H (cm)	DURATION (Hrs-mins) $\pm 10\%$
		LED (Watt)	EQUIVALENT TO HA-Watt		
MB 04-6 ED	12V. 5.0Ah.	2 x 6w.	2 x 15-20w.	26 x 8.5 x 21.5	4.30
MB 07-9 ED	12V. 7.0Ah.	2 x 9w.	2 x 45-50w.	26 x 8.5 x 21.5	4.30
MB 07-12 ED	12V. 9.0Ah.	2 x 12w.	2 x 75-80w.	26 x 8.5 x 21.5	4.30



EXIT TUBE

Self-Contained Exit Sign Tube Series



The EXB Exit Sign Light is decoratively designed for convenient operation with single or double side signs complies to E.I.T. and TIS. Standards.

EXA-xxx — without battery (220VAC operation)

EXB-xxx — with battery

SPECIFICATION

- Maintained
- FL Lamp and PL Lamp
- Lamp life time 50,000 hours
- AC 220 Volt, 50 Hz, $\pm 10\%$ - Single phase
- Electro-galvanized steel sheet 1mm. with epoxy powder and stove enamel coated anti-rust corrosion proof
- Nickle metal hydride battery, high temperature type
- Solid state system automatic battery charger
- Constant voltage charging systems
- Switching regulated transformer
- 12-15 hours charging period.

SAFETY FEATURES

- Low-high voltage cut-off, prevention battery over charge & discharge
- AC fuse-preventing short circuit and overload for main incoming AC220 Volt
- DC fuse-preventing short circuit and overload for charging & load
- Wall mounting or ceiling mounting
- EXA series without battery charger, safety features and indicator display

EXB-Box Type

MODEL NO	SIDE	BATTERY	BULBS (Watt)	DURATION (Hrs) $\pm 10\%$	DIMENSION L x W x H (cm)
EXB 111 FL	1	6V. 4.5Ah (SLA) or Ni-MH 6V. 4.5Ah	1 x 10	2	38 x 9.5 x 18.5
EXB 121 FL	1		2 x 10	2	38 x 9.5 x 18.5
EXB 112 FL	2		1 x 10	2	38 x 10 x 18.5
EXB 122 FL	2		2 x 10	2	38 x 10 x 18.5
EXB 211 FL	1		1 x 18	2	70 x 9.5 x 22.5
EXB 212 FL	2		1 x 18	2	70 x 10 x 22.5
EXB 111 PL	1		1 x 11	2	38 x 9.5 x 18.5
EXB 121 PL	1		2 x 11	2	38 x 9.5 x 18.5
EXB 112 PL	2		1 x 11	2	38 x 10 x 18.5
EXB 122 PL	2		2 x 11	2	38 x 10 x 18.5

EXB-303 Slimline Type

MODEL NO	SIDE	BATTERY	BULBS (Watt)	DURATION (Hrs) $\pm 10\%$	DIMENSION L x W x H (cm)
EXB 303 SFL	1	6V. 4.5Ah (SLA) or Ni-MH 6V. 4.5Ah	1 x 10	2	37 x 8 x 11
EXB 303 TFL	2		1 x 10	2	37 x 8 x 11
EXB 303 SPL	1		1 x 11	2	37 x 8 x 11
EXB 303 TPL	2		1 x 11	2	37 x 8 x 11
EXB 303 SFL	1		2 x 10	2	42 x 11.5 x 11
EXB 303 TFL	2		2 x 10	2	42 x 11.5 x 11
EXB 303 SPL	1		2 x 11	2	42 x 11.5 x 11
EXB 303 TPL	2		2 x 11	2	42 x 11.5 x 11



EXIT LED

Self-Contained Exit Sign LED Series

SPECIFICATION

- Maintained
- LED Lamp
- Lamp life time 50,000 hours
- AC 220 Volt, 50 Hz, $\pm 10\%$ - Single phase
- Electro-galvanized steel sheet 1mm. with epoxy powder and stove enamel coated anti-rust corrosion proof or ABS casing
- Nickel metal hydride battery, high temperature type
- Solid state system automatic battery charger
- Constant voltage charging systems
- Switching regulated transformer
- 12-15 hours charging period.

SAFETY FEATURES

- Low-high voltage cut-off, prevention battery over charge & discharge
- AC fuse-preventing short circuit and overload for main incoming AC220 Volt
- DC fuse-preventing short circuit and overload for charging & load
- Wall mounting or ceiling mounting

Wall Box Type

MODEL NO	SIDE	BATTERY	BULBS		DIMENSION L x W x H (cm)	DURATION (Hrs) $\pm 10\%$
			LED (Watt)	LUMINOUS INTENSITY (mcd)		
EXB 111-LED	1	3.6V. 2100Ah.	2 x 5w.	8,000	38 x 6 x 18.5	3.00
EXB 112-LED	2	2	2 x 5w.	8,000	38 x 6.5 x 18.5	3.00

Slimline Type

MODEL NO	SIDE	BATTERY	BULBS		DIMENSION L x W x H (cm)	DURATION (Hrs) $\pm 10\%$
			LED (Watt)	LUMINOUS INTENSITY (mcd)		
EXB 303 S-ED	1	3.6V. 2100Ah.	2 x 5w.	8,000	39 x 7 x 4.5	3.00
EXB 303 T-ED	2	3.6V. 2100Ah.	2 x 5w.	8,000	39 x 7 x 4.5	3.00



A



B



CU

Central Unit Series

The Central Unit Emergency Lighting is centralized system for 12-24VDC. Load that can install remote head lamp is the wide and separate area.

SPECIFICATION

- Non-Maintained
- 12 VDC or 24 VDC
- AC 220 Volt, 50 Hz, $\pm 10\%$ - Single phase
- Electro-galvanized steel sheet 1mm. with epoxy powder and stove enamel coated anti-rust corrosion proof
- Sealed lead acid battery, based on ISO 9001, ISO 14001 certified battery or single cell-sealed lead acid battery (2 Volt)
- Solid state system automatic battery charger
- 15-20 hours charging period.

SAFETY FEATURES

- Low-high voltage cut-off, prevention battery over charge & discharge
- AC fuse-preventing short circuit and overload for main incoming AC220 Volt
- DC fuse-preventing short circuit and overload for charging & load
- DC Load fuse-preventing short circuit and overload for lamp load

ACCESSORIES

- Infrared remote test
- LED "AC" indicates main income AC 220 Volt
- LED "Change/Full" indicates changing status
- LED "Backup" indicates backup status
- LED "Fail" indicates over charge
- DC Voltmeter indicates DC battery voltage
- DC Ammeter indicates DC charge current

CU Series Output 12 VDC

MODEL NO	LOAD DC (Max Load)	BATTERY	DURATION (Hrs) ±10%	DIMENSION L x W x H (cm)	OUTPUT CHANNEL	PIC	
CU 7 - 12	30 Watt	12V. 7 Ah.	2	29.5 x 8.5 x 20.5	1	B	
CU 18 - 12	80 Watt	12V. 18 Ah.					
CU 23 - 12	110 Watt	12V. 25 Ah.					
CU 40 - 12	180 Watt	12V. 40 Ah.	2	37 x 18 x 26.5	1	A	
CU 75 - 12	350 Watt	12V. 75 Ah.	2	30 x 22 x 52	1		
CU 100 - 12	450 Watt	12V. 100 Ah.	2	44 x 22 x 62	1		
CU 134 - 12	620 Watt	12V. 134 Ah.					



BPF-BPL

Battery Pack

The BP Series are battery pack type designed for lighting fixtures that need to recess independently

BPD - for downlight

BPF - for fluorescent

BPL - for PL lamp

SPECIFICATION

- Maintained
- Tungsten Halogen, Dichroic Halogen, Fluorescent, Compact Fluorescent
- AC 220 Volt, 50 Hz, $\pm 10\%$ - Single phase
- Electro-galvanized steel sheet 1mm. With epoxy powder and stove enamel coated anti-rust corrosion proof
- Sealed lead acid battery
- Solid state system automatic battery charger
- 12-15 hours charging period.

SAFETY FEATURES

- Low-high voltage cut-off, preventing battery over discharge and recharge

BPF Series (For Fluorescent Lamp)

MODEL NO	BATTERY	For Bulbs	LAMP	DURATION (Hrs) ±10%	DIMENSION L x W x H (cm)
BPF 10	12V. 4.5Ah.	1 x 10w FL	Fluorescent	2	*A = 39.5 x 5 x 4.7 *B = 27 x 7.5 x 5.5
BPF 20		1 x 18w FL			
BPF 40		1 x 36w FL			
BPF 14	12V. 4.5Ah.	1 x 14w FL	Fluorescent T5	2	
BPF 28		1 x 28w FL			

BPL Series (For PL-S Lamp) - 2 Pins type

MODEL NO	BATTERY	For Bulbs	LAMP	DURATION (Hrs) $\pm 10\%$	DIMENSION L x W x H (cm)
BPL 9	12V. 4.5Ah.	1 x 14w FL	PL-S	2	*A = 39.5 x 5 x 4.7 *B = 27 x 7.5 x 5.5
BPL 11		1 x 28w FL			

BPLL Series (For PL-L Lamp) - 4 Pins type

MODEL NO	BATTERY	LAMP	LAMP TYPE	DURATION (Hrs) $\pm 10\%$	DIMENSION L x W x H (cm)
BPLL 20	12V. 4.5Ah.	1 x 18w PL-L	PL-L	2	*A = 39.5 x 5 x 4.7 *B = 27 x 7.5 x 5.5
BPLL 24		1 x 24w PL-L			
BPLL 40		1 x 40w PL-L			

BPLC Series (For PL-C Lamp) - 2 Pins type

MODEL NO	BATTERY	LAMP	LAMP TYPE	DURATION (Hrs) $\pm 10\%$	DIMENSION L x W x H (cm)
BPLC 13	12V. 4.5Ah.	1 x 13w PL-C	PL-C	2	*A = 39.5 x 5 x 4.7 *B = 27 x 7.5 x 5.5
BPLC 18		1 x 18w PL-C			
BPLC 26		1 x 26w PL-C			

BPD Series (For Down Light Lamp)

MODEL NO	BATTERY	LAMP	LAMP TYPE	DURATION (Hrs) $\pm 10\%$	DIMENSION L x W x H (cm)
BPD 20	12V. 4.5Ah.	1 x 20w	Halogen	1.50	*A = 39.5 x 5 x 4.7 *B = 27 x 7.5 x 5.5
BPD 35		1 x 35w		1.00	
BPD 50		1 x 50w		0.45	

08



Low Bay & High Bay

High bay lighting is used in high-ceiling areas to light surface more than 6 meters away. Common high bay applications include industrial manufacturing, gymnasiums, warehouses, etc.



HBP-012

12 Inch Prismatic Low Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type and IP65 for Close Type
- **Lamp Holder:** E27 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 70 - 150 w.
- **Housing:** Prismatic diffuser to provide direct and indirect light distribution.
- **Gasket:** Stainless steel gasket
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Extruded aluminium gear box or aluminium die-casting are recommended. Two models of gear boxes are recommended: GB12 and GB16

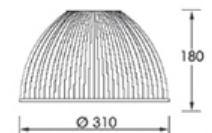
APPLICATION

- Suitable for low to medium height installation and wide area light distribution such as shopping malls, super markets, convenience stores, warehouse, storage.



HBP-012A/E27

12 Inch Prismatic High Bay - Open

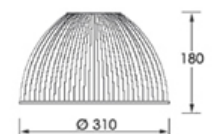


Compatible Bulb			
	HPS-E / E27 70W / 150W		MH-E / E27 70W / 150W
	MV / E27 80W / 125W		



HBP-012B/E27

12 Inch Prismatic High Bay - Close



Compatible Bulb			
	HPS-E / E27 70W / 150W		MH-E / E27 70W / 150W
	MV / E27 80W		



HBP-016

16 Inch Prismatic High Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type and IP65 for Close Type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Prismatic diffuser to provide direct and indirect light distribution.
- **Gasket:** Stainless steel gasket
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Aluminium die-casting gear box. Three models of gear boxes recommended: GB11, GB12 and GB16

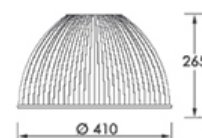
APPLICATION

- Suitable for high installation and wide area light distribution such as shopping malls, super markets, convenience stores, warehouse, storage.



HBP-016A/GB11

16 Inch Prismatic High Bay - Open



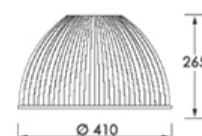
Compatible Bulb

	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W		MV / E27 250W / 400W
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HBP-016B/GB11

16 Inch Prismatic High Bay - Close



Compatible Bulb

	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W		MV / E27 250W
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HBP-022

22 Inch Prismatic High Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type and IP65 for Close Type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Prismatic diffuser to provide direct and indirect light distribution.
- **Gasket:** Stainless steel gasket
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Aluminium die-casting gear box. Three models of gear boxes recommended: GB11, GB12 and GB16

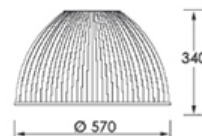
APPLICATION

- Suitable for high installation and wide area light distribution such as shopping malls, super markets, convenience stores, warehouse, storage.



HBP-022A/GB11

22 Inch Prismatic High Bay - Open

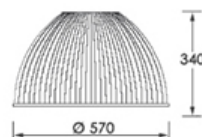


Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		



HBP-022B/GB11

22 Inch Prismatic High Bay - Close



Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		



HBA-121

300mm Aluminium Low Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type
- **Lamp Holder:** E27 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 70 - 150 w.
- **Housing:** Aluminium reflector to provide high efficiency direct light distribution.
- **Gasket:** Weather proof and durable silicone rubber
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Extruded aluminium gear box with precise fins to allow heat dissipation. Three models of gear boxes recommended: GB16

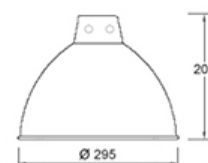
APPLICATION

- Suitable for low installation to light up area such as shopping malls, super markets, convenience stores, warehouse, storage.



HBA-121A/E27

300mm Aluminium Low Bay - Open



Compatible Bulb			
	HPS-E / E27 70W / 150W		MH-E / E27 70W / 150W
			MV / E27 80W / 125W

HBA-160

395mm Aluminium High Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Aluminium reflector to provide high efficiency direct light distribution.
- **Gasket:** Weather proof and durable silicone rubber
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Aluminium die-casting gear box. Three models of gear boxes recommended: GB11, GB12 and GB16

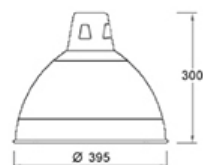
APPLICATION

- Suitable for high installation and wide area light distribution such as shopping malls, super markets, convenience stores, warehouse, storage.



HBA-160A/GB11

395mm Aluminium High Bay - Open

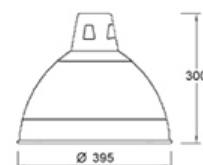


Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		



HBA-160A/GB12

395mm Aluminium High Bay - Close



Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		

HBA-130

460mm Aluminium High Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type and IP65 for Close Type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Aluminium reflector to provide high efficiency direct light distribution.
- **Gasket:** Weather proof and durable silicone rubber
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Aluminium die-casting gear box. Three models of gear boxes recommended: GB11, GB12 and GB16

APPLICATION

- Suitable for high installation and wide area light distribution such as shopping malls, super markets, convenience stores, warehouse, storage.

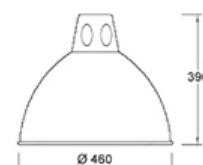


HBA-130A/GB11

460mm Aluminium High Bay - Open



Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		

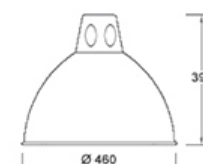


HBA-130B/GB11

460mm Aluminium High Bay - Close



Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		



HBA-124

424mm Aluminium High Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type and IP65 for Close Type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Aluminium reflector to provide high efficiency direct light distribution.
- **Gasket:** Weather proof and durable silicone rubber
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Aluminium die-casting gear box. Three models of gear boxes recommended: GB11, GB12 and GB16

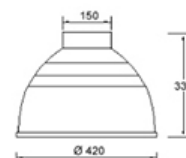
APPLICATION

- Suitable for high installation and wide area light distribution such as shopping malls, super markets, convenience stores, warehouse, storage.



HBA-124A/GB11

424mm Aluminium High Bay - Open

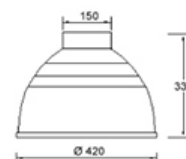


Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		



HBA-124B/GB11

424mm Aluminium High Bay - Close



Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		



HBA-125

475mm Aluminium High Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type and IP65 for Close Type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Aluminium reflector to provide high efficiency direct light distribution.
- **Gasket:** Weather proof and durable silicone rubber
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Aluminium die-casting gear box. Three models of gear boxes recommended: GB11, GB12 and GB16

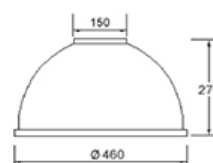
APPLICATION

- Suitable for high installation and wide area light distribution such as shopping malls, super markets, convenience stores, warehouse, storage.



HBA-125A/GB11

475mm Aluminium High Bay - Open

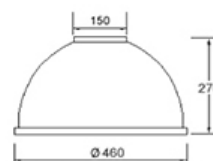


Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W		



HBA-125B/GB11

475mm Aluminium High Bay - Close



Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		



HBA-126

520mm Aluminium High Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Aluminium reflector to provide high efficiency direct light distribution.
- **Gasket:** Weather proof and durable silicone rubber
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Aluminium die-casting gear box. Three models of gear boxes recommended: GB11, GB12 and GB16

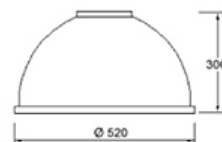
APPLICATION

- Suitable for high installation and wide area light distribution such as shopping malls, super markets, convenience stores, warehouse, storage.



HBA-126A/GB11

520mm Aluminium High Bay - Open



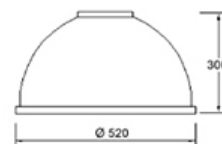
Compatible Bulb

	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W		MV / E27 250W / 400W
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HBA-126A/GB12

520mm Aluminium High Bay - Close



Compatible Bulb

	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W		MV / E27 250W / 400W
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HBA-131

355mm Aluminium High Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Aluminium reflector to provide high efficiency direct light distribution.
- **Gasket:** Weather proof and durable silicone rubber
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Aluminium die-casting gear box. Three models of gear boxes recommended: GB11, GB12 and GB16

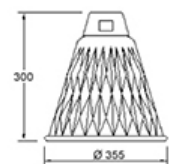
APPLICATION

- Suitable for high installation and wide area light distribution such as shopping malls, super markets, convenience stores, warehouse, storage.



HBA-131A/GB11

355mm Aluminium High Bay - Open

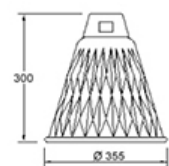


Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		



HBA-131B/G11

355mm Aluminium High Bay - Close



Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		

HBA-134

485mm Aluminium High Bay

SPECIFICATION

- **IP Rating:** IP20 for Open Type and IP65 for Close Type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Aluminium reflector to provide high efficiency direct light distribution.
- **Gasket:** Weather proof and durable silicone rubber
- **Cable:** High temperature cable and high voltage pulse cable where applicable
- **Gear Box:** Aluminium die-casting gear box. Three models of gear boxes recommended: GB11, GB12 and GB16

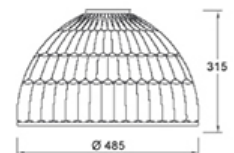
APPLICATION

- Suitable for high installation and wide area light distribution such as shopping malls, super markets, convenience stores, warehouse, storage.



HBA-134A/GB11

485mm Aluminium High Bay - Open

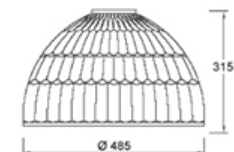


Compatible Bulb		
	HPS-E / E27 250W / 400W	
	MH-E / E27 250W / 400W	
	MV / E27 250W / 400W	



HBA-134B/GB11

485mm Aluminium High Bay - Close



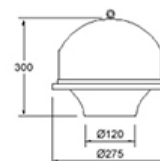
Compatible Bulb		
	HPS-E / E27 250W / 400W	
	MH-E / E27 250W / 400W	
	MV / E27 250W / 400W	



GB-10

Aluminium Gear Box

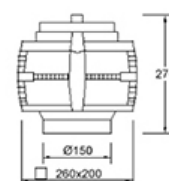
- **Housing:** Corrosion resistant high pressure die cast aluminium
- **Lock:** Special design clip lock for ease of maintenance
- **Lampholder:** Porcelain E40.
- **Installation:** Loop for pendant installation.



GB-11

Aluminium Gear Box

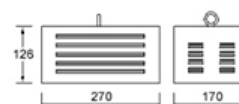
- **Housing:** Corrosion resistant high pressure die cast aluminium
- **Lock:** Special design clip lock for ease of maintenance
- **Lampholder:** Porcelain E40.
- **Installation:** Loop for pendant installation.



GB-12

Aluminium Gear Box

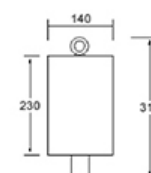
- **Housing:** Corrosion resistant high pressure aluminium extruded cast
- **Lock:** Screw lock type
- **Lampholder:** Porcelain E40 or E27
- **Installation:** Loop for pendant installation.



GB-13

Aluminium Gear Box

- **Housing:** Corrosion resistant high pressure aluminium extruded cast
- **Lock:** Screw lock type
- **Lampholder:** Porcelain E40 or E27
- **Installation:** Loop for pendant installation.

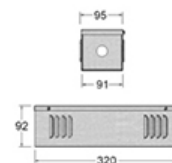




GB-14

Steel Gear Box

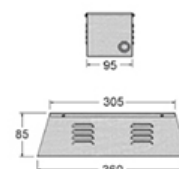
- **Housing:** High quality cold-rolled steel housing
- **Lock:** Screw lock type
- **Lampholder:** Porcelain E40 or E27
- **Installation:** Loop for pendant installation.



GB-15

Steel Gear Tray

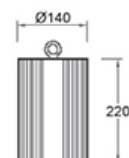
- **Housing:** High quality cold-rolled steel housing
- **Lock:** Screw lock type
- **Lampholder:** -
- **Installation:** -



GB-16

Aluminium Gear Box

- **Housing:** Corrosion resistant high pressure aluminium extruded cast
- **Lock:** Screw lock type
- **Lampholder:** Porcelain E40 or E27
- **Installation:** Loop for pendant installation.



09



Accent Luminaires

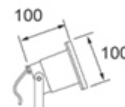
SECO accent luminaire is design to emphasize an area or an object. This kind of lighting adds to drama or style by highlighting an specific area as usually used in façade lighting or landscape lighting.



GDS-002

Accent Luminaire

- **Housing:** Corrosion resistant die-cast aluminium finished in black color
- **Diffuser:** Thermal shock resistant safty glass
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Remote weatherproof gear box is needed
- Suitable for focus lighting to a specific object or area such as tree, etc.



Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

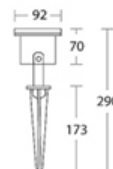
LED-MR16 / G5.3
4W / 6W



GDS-052

Accent Luminaire

- **Housing:** Corrosion resistant die-cast aluminium finished in black color
- **Diffuser:** Thermal shock resistant safty glass
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Remote weatherproof gear box is needed
- Suitable for focus lighting to a specific object or area such as tree, etc.



Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

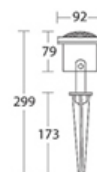
LED-MR16 / G5.3
4W / 6W



GDS-053

Accent Luminaire

- **Housing:** Corrosion resistant die-cast aluminium finished in black color
- **Diffuser:** Thermal shock resistant safty glass
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Remote weatherproof gear box is needed
- Suitable for focus lighting to a specific area or an object such



Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

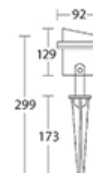
LED-MR16 / G5.3
4W / 6W



GDS-054

Accent Luminaire

- **Housing:** Corrosion resistant die-cast aluminium finished in black color
- **Diffuser:** Thermal shock resistant safty glass
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Remote weatherproof gear box is needed
- Suitable for focus lighting to a specific object or area such as tree, etc.



Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

LED-MR16 / G5.3
4W / 6W



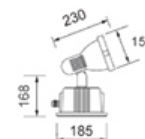
GDS-005

Accent Luminaire

- **Housing:** Corrosion resistant die-cast aluminium finished in black color
- **Diffuser:** Thermal shock resistant safety glass
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for focus lighting a specific area or an object such as trees, sculptures.

Compatible Bulb
 PAR38 / E27
 80W / 120W

Optional LED Replacement
 LED-PAR38 / E27
 15W



GDS-055

Accent Luminaire

- **Housing:** Corrosion resistant die-cast aluminium finished in black color
- **Diffuser:** Thermal shock resistant safety glass
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for focus lighting a specific area or an object such as trees, sculptures.

Compatible Bulb
 PAR38 / E27
 80W / 120W

Optional LED Replacement
 LED-PAR38 / E27
 15W



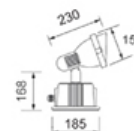
GDS-006

Accent Luminaire

- **Housing:** Corrosion resistant die-cast aluminium finished in black color
- **Diffuser:** Thermal shock resistant safety glass
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for focus lighting a specific area or an object such as trees, sculptures.

Compatible Bulb
 PAR38 / E27
 80W / 120W

Optional LED Replacement
 LED-PAR38 / E27
 15W



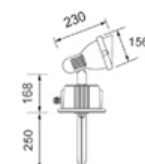
GDS-056

Accent Luminaire

- **Housing:** Corrosion resistant die-cast aluminium finished in black color
- **Diffuser:** Thermal shock resistant safety glass
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for focus lighting a specific area or an object such as trees, sculptures.

Compatible Bulb
 PAR38 / E27
 80W / 120W

Optional LED Replacement
 LED-PAR38 / E27
 15W





GDS-007

Accent Luminaire

- **Housing:** Die-cast aluminium housing finished with polyester powder painting in black color
- **Louver:** Concentric extrude aluminium
- **Gasket:** Weatherproof durable silicone rubber with stainless steel screws
- **Adjustable:** 360 degree rotation and 90 degree elevation
- Suitable for focus lighting a specific area or an object



Compatible Bulb	Optional LED Replacement
PAR20 / E27 50W	LED-PAR20 / E27 6W



GDS-057

Accent Luminaire

- **Housing:** Die-cast aluminium housing finished with polyester powder painting in black color
- **Louver:** Concentric extrude aluminium
- **Gasket:** Weatherproof durable silicone rubber with stainless steel screws
- **Adjustable:** 360 degree rotation and 90 degree elevation
- Suitable for focus lighting a specific area or an object



Compatible Bulb	Optional LED Replacement
PAR20 / E27 50W	LED-PAR20 / E27 6W



GDS-008

Accent Luminaire

- **Housing:** Die-cast aluminium housing finished with polyester powder painting in black color
- **Louver:** Concentric extrude aluminium
- **Gasket:** Weatherproof durable silicone rubber with stainless steel screws
- **Adjustable:** 360 degree rotation and 90 degree elevation
- Suitable for focus lighting a specific area or an object such as trees, sculptures.



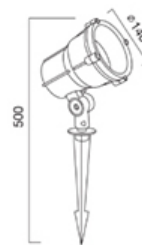
Compatible Bulb	Optional LED Replacement
PAR30 / E27 75W	LED-PAR30 / E27 12W



GDS-058

Accent Luminaire

- **Housing:** Die-cast aluminium housing finished with polyester powder painting in black color
- **Louver:** Concentric extrude aluminium
- **Gasket:** Weatherproof durable silicone rubber with stainless steel screws
- **Adjustable:** 360 degree rotation and 90 degree elevation
- Suitable for focus lighting a specific area or an object such as trees, sculptures.



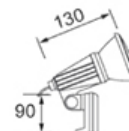
Compatible Bulb	Optional LED Replacement
PAR30 / E27 75W	LED-PAR30 / E27 12W



GDS-101

Accent Luminaire

- **Housing:** Die-cast aluminium housing finished with polyester powder painting in black color
- **Gasket:** Weatherproof durable silicone rubber with stainless steel screws
- **Adjustable:** 360 degree rotation and 90 degree elevation
- **Mounting:** Metal plate
- Suitable for focus lighting a specific area or an object



Compatible Bulb

PAR38 / E27
80W / 120W

Optional LED Replacement

LED-PAR38 / E27
15W



GDS-151

Accent Luminaire

- **Housing:** Die-cast aluminium housing finished with polyester powder painting in black color
- **Gasket:** Weatherproof durable silicone rubber with stainless steel screws
- **Adjustable:** 360 degree rotation and 90 degree elevation
- **Mounting:** Metal ground spike
- Suitable for focus lighting a specific area or an object



Compatible Bulb

PAR38 / E27
80W / 120W

Optional LED Replacement

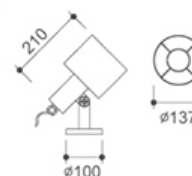
LED-PAR38 / E27
15W



GDS-102

Accent Luminaire

- **Housing:** Die-cast aluminium housing finished with polyester powder painting in black color
- **Louver:** Concentric extrude aluminium with black finish
- **Gasket:** Weatherproof durable silicone rubber with stainless steel screws
- **Adjustable:** 360 degree rotation and 90 degree elevation
- Suitable for focus lighting a specific area or an object



Compatible Bulb

PAR38 / E27
80W / 120W

Optional LED Replacement

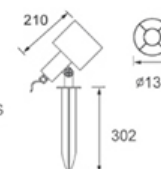
LED-PAR38 / E27
15W



GDS-152

Accent Luminaire

- **Housing:** Die-cast aluminium housing finished with polyester powder painting in black color
- **Louver:** Concentric extrude aluminium with black finish
- **Gasket:** Weatherproof durable silicone rubber with stainless steel screws
- **Adjustable:** 360 degree rotation and 90 degree elevation
- Suitable for focus lighting a specific area or an object



Compatible Bulb

PAR38 / E27
80W / 120W

Optional LED Replacement

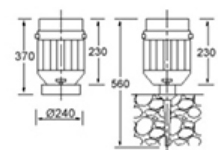
LED-PAR38 / E27
15W



GDS-201

Accent Luminaire

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws



Compatible Bulb

PAR56 / GX16d
300W / 500W

10



Inground Luminaires

Inground luminaires are designed to illuminate your walkways, decks, or along the edge of your home. This kind of lighting creates a very dramatic and appealing effect at night.

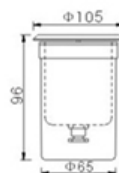


ING-101-1

Round Inground Luminaire



- **Housing:** Aluminium body and stainless steel trim
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for landscape lighting such as pathways, walkways, etc.



Compatible Bulb
MR16 / G5.3
35W / 50W

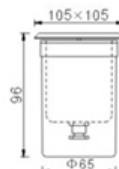
Optional LED Replacement
LED-MR16 / G5.3
4W / 6W

ING-101-2

Square Inground Luminaire



- **Housing:** Aluminium body and stainless steel trim
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for landscape lighting such as pathways, walkways, etc.



Compatible Bulb
MR16 / G5.3
35W / 50W

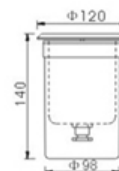
Optional LED Replacement
LED-MR16 / G5.3
4W / 6W

ING-101-3

Round Inground Luminaire



- **Housing:** Aluminium body and stainless steel trim
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- **Adjustable:** Adjustable
- Suitable for landscape lighting such as pathways, walkways, etc.



Compatible Bulb
MR16 / G5.3
35W / 50W

Optional LED Replacement
LED-MR16 / G5.3
4W / 6W



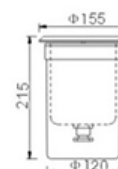
ING-200

Round Inground Luminaire

- **Housing:** Aluminium body and trim
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for landscape lighting such as pathways, walkways, etc.

Compatible Bulb	
 PAR30 / E27 75W	 PL / E27 15W / 20W

Optional LED Replacement
 LED-PAR30 / E27 12W



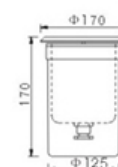
ING-203

Round Inground Luminaire

- **Housing:** Aluminium body and trim
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for landscape lighting such as pathways, walkways, etc.

Compatible Bulb	
 PAR38 / E27 80W / 120W	

Optional LED Replacement
 LED-PAR38 / E27 15W



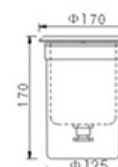
ING-208

Round Inground Luminaire

- **Housing:** Aluminium body and trim
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for landscape lighting such as pathways, walkways, etc.

Compatible Bulb	
 PAR38 / E27 80W / 120W	

Optional LED Replacement
 LED-PAR38 / E27 15W

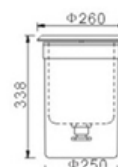


ING-206

Round Inground Luminaire

- **Housing:** Aluminium body and trim
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for landscape lighting such as pathways, walkways, etc.

Compatible Bulb	
 MHN-TD / RX7s 70W / 150W	

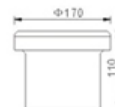




ING-205-1

Round Inground Luminaire

- **Housing:** Aluminium body and trim
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- **Adjustable:** Adjustable
- Suitable for landscape lighting such as pathways, walkways, etc.



Compatible Bulb

QR111 / G5.3
75W / 100W

Optional LED Replacement

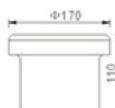
LED-QR111 / G5.3
12W



ING-205-2

Round Inground Luminaire

- **Housing:** Aluminium body and trim
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- **Adjustable:** Adjustable
- Suitable for landscape lighting such as pathways, walkways, etc.

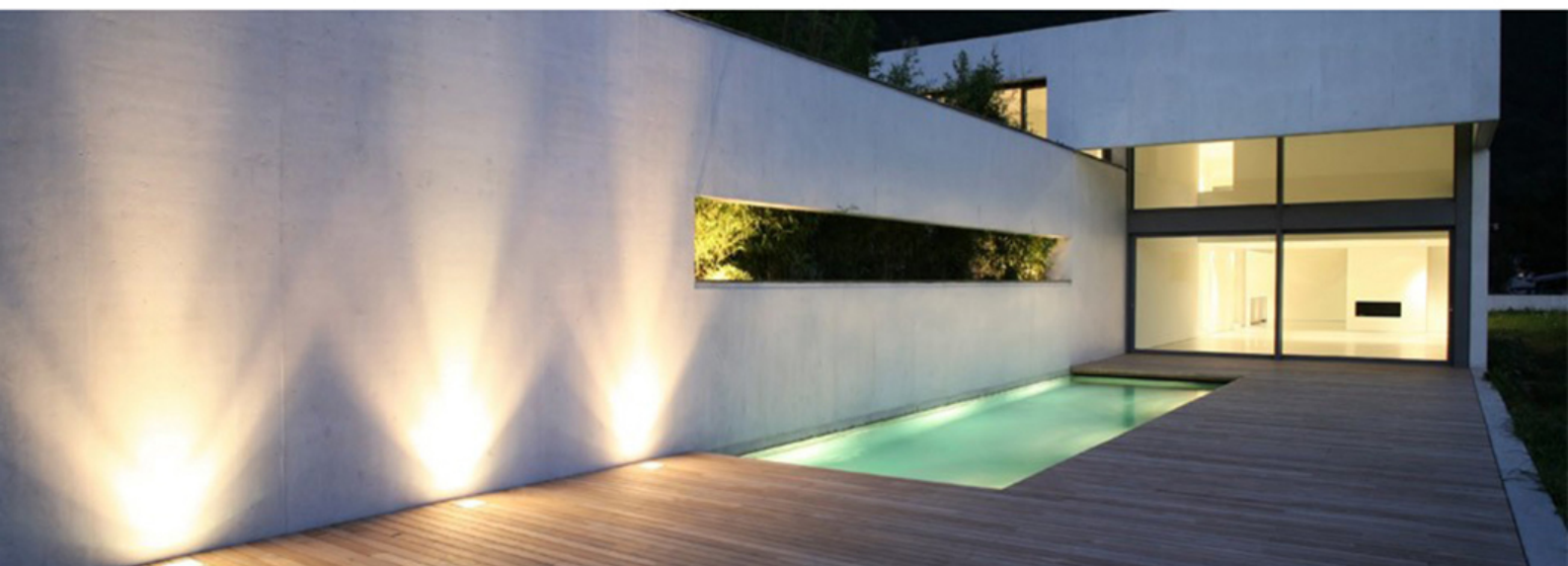


Compatible Bulb

QR111 / G5.3
75W / 100W

Optional LED Replacement

LED-QR111 / G5.3
12W



11



Under Water Luminaires

Under water luminaire is designed to waterproof in order to be able to create a dramatic and attractive atmosphere for pools, fountains, etc. Coupled with the movement of water, under water lighting can create a fancy and dreamy environment for you place.



SMB-010

Under Water Luminaire

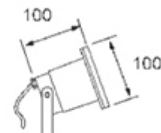
- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration under water landscape such as pool

Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

LED-MR16 / G5.3
4W / 6W



SBM-100

Under Water Luminaire

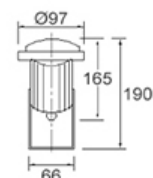
- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration under water landscape such as pool

Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

LED-MR16 / G5.3
4W / 6W



SBM-101

Under Water Luminaire

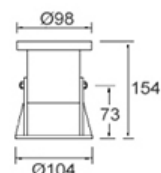
- **Housing:** 304 grade stainless steel body and 316 grade stainless steel cover
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration under water landscape such as pool

Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

LED-MR16 / G5.3
4W / 6W



SBM-105

Under Water Luminaire

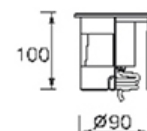
- **Housing:** 304 grade stainless steel body and 316 grade stainless steel cover
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration under water landscape such as pool

Compatible Bulb

MR16 / G5.3
35W / 50W

Optional LED Replacement

LED-MR16 / G5.3
4W / 6W

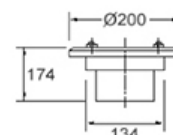


SBM-300

Under Water Luminaire



- **Housing:** 304 grade stainless steel body and 316 grade stainless steel cover
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration under water landscape such as pool



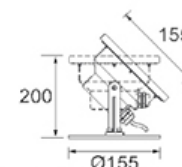
Compatible Bulb		Optional LED Replacement	
	QR111 / G5.3 75W / 100W		LED-QR111 / G5.3 12W

SBM-301

Under Water Luminaire



- **Housing:** 304 grade stainless steel body and 316 grade stainless steel cover
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration under water landscape such as pool



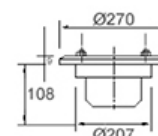
Compatible Bulb		Optional LED Replacement	
	QR111 / G5.3 75W / 100W		LED-QR111 / G5.3 12W

SBM-400

Under Water Luminaire



- **Housing:** 304 grade stainless steel body and 316 grade stainless steel cover
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration under water landscape such as pool



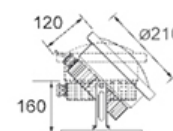
Compatible Bulb	
	PAR56 / GX16d 300W / 500W

SBM-401

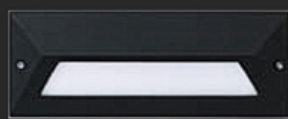
Under Water Luminaire



- **Housing:** 304 grade stainless steel body and 316 grade stainless steel cover
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration under water landscape such as pool



Compatible Bulb	
	PAR56 / GX16d 300W / 500W



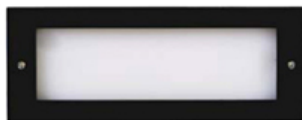
12

Step Lightt Luminaires

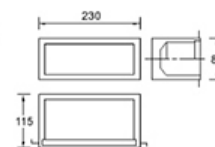
Step light luminaires help adding extra security, creating a well-coming ambience as well as grazing lighting effects for your place. Step light luminaires are used to highlight steps or boundary.

STL-310

Step Light Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



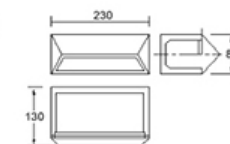
Compatible Bulb							
	GLS / E27 40W / 60W		PLS / G23 7W / 9W		PLC / G24d-x 13W / 18W		PL / E27 8W / 14W

STL-311

Step Light Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



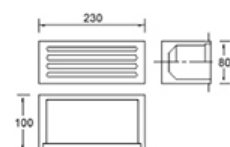
Compatible Bulb							
	GLS / E27 40W / 60W		PLS / G23 7W / 9W		PLC / G24d-x 13W / 18W		PL / E27 8W / 14W

STL-312

Step Light Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



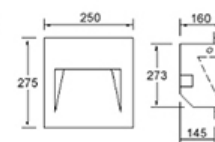
Compatible Bulb							
	GLS / E27 40W / 60W		PLS / G23 7W / 9W		PLC / G24d-x 13W / 18W		PL / E27 8W / 14W

STL-313

Wallmount Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb							
	GLS / E27 40W / 60W		PLS / G23 7W / 9W		PLC / G24d-x 13W / 18W		PL / E27 8W / 14W

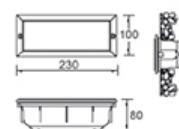


STL-315

Step Light Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



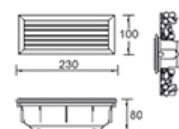
Compatible Bulb							
	GLS / E27 40W / 60W		PLS / G23 7W / 9W		PLC / G24d-x 13W / 18W		PL / E27 8W / 14W

STL-316

Step Light Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



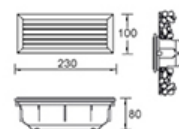
Compatible Bulb							
	GLS / E27 40W / 60W		PLS / G23 7W / 9W		PLC / G24d-x 13W / 18W		PL / E27 8W / 14W

STL-317

Wallmount Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb							
	GLS / E27 40W / 60W		PLS / G23 7W / 9W		PLC / G24d-x 13W / 18W		PL / E27 8W / 14W

13



Wall Mount Luminaires

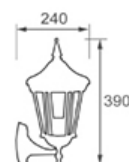
SECO wall mount luminaire comes in various styles from modern to contemporary. The main purpose of the wall lamp is to illuminate the pathway or walkway around the structures. But today's, wall mount luminaires are used to create a dramatic or add a finish touch to an area.



WMO-021

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated in black
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor decoration such as pathway, walk way, etc.



Compatible Bulb		
	PLS / G23 9W	
	PLC / G24d-x 13W / 18W	
	PL / E27 14W / 18W	

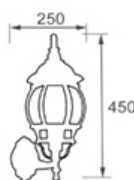
Optional LED Replacement	
	LED-GLS / E27 8W / 10W



WMO-022

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated in black
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor decoration such as pathway, walk way, etc.



Compatible Bulb		
	PLS / G23 9W	
	PLC / G24d-x 13W / 18W	
	PL / E27 14W / 18W	

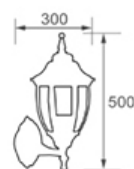
Optional LED Replacement	
	LED-GLS / E27 8W / 10W



WMO-023

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated in black
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor decoration such as pathway, walk way, etc.



Compatible Bulb		
	PLS / G23 9W	
	PLC / G24d-x 13W / 18W	
	PL / E27 14W / 18W	

Optional LED Replacement	
	LED-GLS / E27 8W / 10W



WMO-024

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated in black
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor decoration such as pathway, walk way, etc.



Compatible Bulb		
	PLS / G23 9W	
	PLC / G24d-x 13W / 18W	
	PL / E27 14W / 18W	

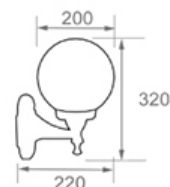
Optional LED Replacement	
	LED-GLS / E27 8W / 10W



WMO-102

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass diffuser
- **Painting:** Polyester powder coated in black
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor area such as pathway, walk way, etc.



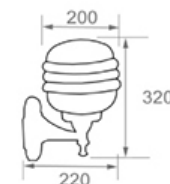
Compatible Bulb				Optional LED Replacement	
	PLS / G23 9W		PLC / G24d-x 13W / 18W		PL / E27 14W / 18W
					LED-GLS / E27 8W / 10W



WMO-103

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass diffuser
- **Painting:** Polyester powder coated in black
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor area such as pathway, walk way, etc.



Compatible Bulb				Optional LED Replacement	
	PLS / G23 9W		PLC / G24d-x 13W / 18W		PL / E27 14W / 18W
					LED-GLS / E27 8W / 10W



WMO-104

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass diffuser
- **Painting:** Polyester powder coated in black
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor area such as pathway, walk way, etc.



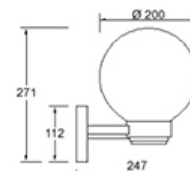
Compatible Bulb				Optional LED Replacement	
	PLS / G23 9W		PLC / G24d-x 13W / 18W		PL / E27 14W / 18W
					LED-GLS / E27 8W / 10W



WMO-107

Wall Mount Luminaire

- **Housing:** Polycarbonate housing finished in black color
- **Diffuser:** Opal acrylic diffuser
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor area such as pathway, walk way, etc.



Compatible Bulb				Optional LED Replacement	
	PLS / G23 9W		PLC / G24d-x 13W / 18W		PL / E27 14W / 18W
					LED-GLS / E27 8W / 10W



WMO-105

Wall Mount Luminaire

- **Housing:** Stainless steel housing
- **Diffuser:** Thermal shock resistant borosilicate opal glass lens
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor decoration such as pathway, etc.

Compatible Bulb		
	PLS / G23 9W	
		PLC / G24d-x 13W / 18W
	PL / E27 14W / 18W	

Optional LED Replacement	
	LED-GLS / E27 8W / 10W



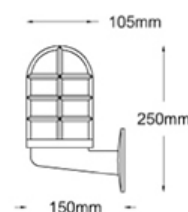
WMO-084

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass lens
- **Painting:** Epoxy-polyester powder coated in black
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor decoration such as pathway, etc.

Compatible Bulb		
	PLS / G23 9W	
		PLC / G24d-x 13W / 18W
	PL / E27 14W / 18W	

Optional LED Replacement	
	LED-GLS / E27 8W / 10W

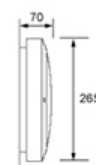


WMO-207

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.

Compatible Bulb	
	GLS / E27 40W / 60W
	PL / E27 14W / 18W

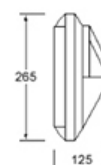


WMO-208

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.

Compatible Bulb	
	GLS / E27 40W / 60W
	PL / E27 14W / 18W

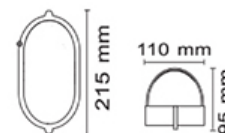


WMO-091

Wall Mount Luminaire



- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



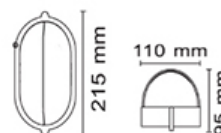
Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W

WMO-092

Wall Mount Luminaire



- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



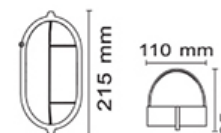
Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W

WMO-093

Wall Mount Luminaire



- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



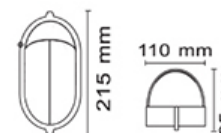
Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W

WMO-094

Wall Mount Luminaire



- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



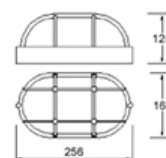
Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W



WMO-201

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass lens
- **Painting:** Polyester powder coated in black
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



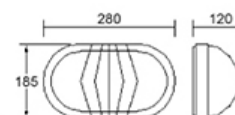
Compatible Bulb			
	GLS / E27		PL / E27
	40W / 60W		14W / 18W



WMO-202

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate opal glass lens
- **Painting:** Polyester powder coated in black
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



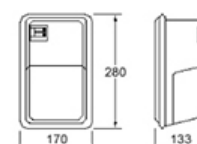
Compatible Bulb			
	GLS / E27		PL / E27
	40W / 60W		14W / 18W



WMO-203

Wall Mount Luminaire

- **Housing:** Polycarbonate housing
- **Diffuser:** Injection molded UV stabilized polycarbonate diffuser
- **Reflector:** Anodized aluminium reflector
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb			
	GLS / E27		MH-E / E27
	40W / 60W		70W



WMO-204

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



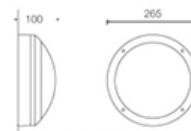
Compatible Bulb			
	HPS-E / E27		MH-E / E27
	150W		150W



WMO-301

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb

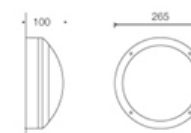
 PLS / G23 9W	 PLC / G24d-x 13W / 18W	 PL / E27 14W / 18W
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WMO-302

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb

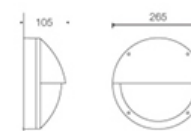
 PLS / G23 9W	 PLC / G24d-x 13W / 18W	 PL / E27 14W / 18W
---	---	---



WMO-303

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb

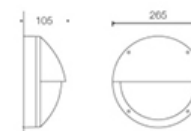
 PLS / G23 9W	 PLC / G24d-x 13W / 18W	 PL / E27 14W / 18W
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WMO-304

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb

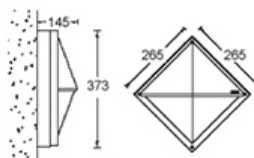
 PLS / G23 9W	 PLC / G24d-x 13W / 18W	 PL / E27 14W / 18W
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WMO-321

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, etc.



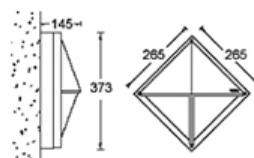
Compatible Bulb					
	PLS / G23 9W		PLC / G24d-x 13W / 18W		PL / E27 14W / 18W






WMO-322

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, etc.



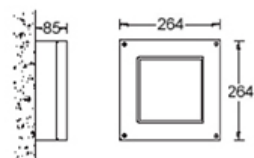
Compatible Bulb					
	PLS / G23 9W		PLC / G24d-x 13W / 18W		PL / E27 14W / 18W






WMO-323

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, etc.



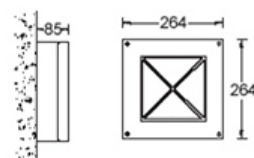
Compatible Bulb					
	PLS / G23 9W		PLC / G24d-x 13W / 18W		PL / E27 14W / 18W



WMO-324

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, etc.



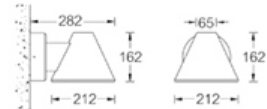
Compatible Bulb					
	PLS / G23 9W		PLC / G24d-x 13W / 18W		PL / E27 14W / 18W

WMO-351

Wall Mount Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb

GLS / E27
40W / 60W

Optional LED Replacement

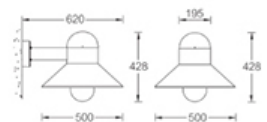
LED-GLS / E27
8W / 10W

WMO-352

Wall Mount Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb

PL / E27
18W / 23W

PLC / G24d-x
13W / 18W / 26W

HPS-E / E27
70W

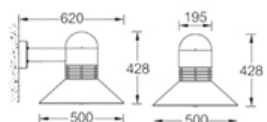
MH-E / E27
70W

WMO-353

Wall Mount Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb

PL / E27
18W / 23W

PLC / G24d-x
13W / 18W / 26W

HPS-E / E27
70W

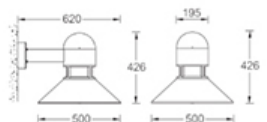
MH-E / E27
70W

WMO-354

Wall Mount Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb

PL / E27
18W / 23W

PLC / G24d-x
13W / 18W / 26W

HPS-E / E27
70W

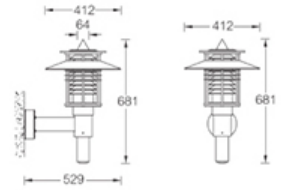
MH-E / E27
70W



WMO-355

Wall Mount Luminaire

- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, etc.



Compatible Bulb							
	PL / E27 18W / 23W		PLC / G24d-x 13W / 18W / 26W		HPS-E / E27 70W		MH-E / E27 70W



WMO-356

Wall Mount Luminaire

- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



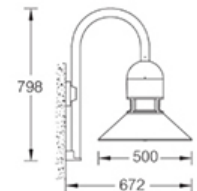
Compatible Bulb							
	PL / E27 18W / 23W		PLC / G24d-x 13W / 18W / 26W		HPS-E / E27 70W		MH-E / E27 70W



WMO-357

Wall Mount Luminaire

- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



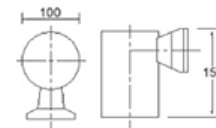
Compatible Bulb							
	PL / E27 18W / 23W		PLC / G24d-x 13W / 18W / 26W		HPS-E / E27 70W		MH-E / E27 70W

WMO-411

Wall Mount Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as



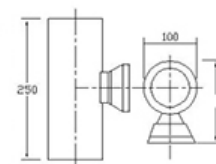
Compatible Bulb		Optional LED Replacement	
	PAR20 / E27 50W (x1)		PL / E27 11W (x1)
			LED-PAR20 / E27 6W (x1)




WMO-412

Wall Mount Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



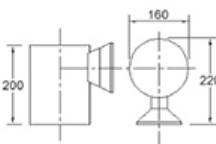
Compatible Bulb		Optional LED Replacement	
	PAR20 / E27 50W (x2)		PL / E27 11W (x2)
			LED-PAR20 / E27 6W (x2)

WMO-413

Wall Mount Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



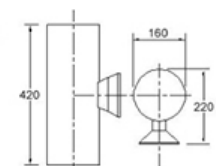
Compatible Bulb		Optional LED Replacement	
	PAR38 / E27 100W (x1)		PL / E27 14W / 18W (x1)
			LED-PAR38 / E27 15W (x1)

WMO-414

Wall Mount Luminaire



- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



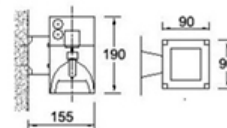
Compatible Bulb		Optional LED Replacement	
	PAR38 / E27 100W (x2)		PL / E27 14W / 18W (x2)
			LED-PAR38 / E27 15W (x2)



WMO-441

Wall Mount Luminaire

- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as



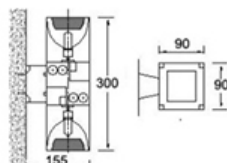
Compatible Bulb		Optional LED Replacement	
	PAR20 / E27 50W (x1)		PL / E27 11W (x1)
			LED-PAR20 / E27 6W (x1)



WMO-442

Wall Mount Luminaire

- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



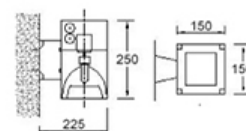
Compatible Bulb		Optional LED Replacement	
	PAR20 / E27 50W (x2)		PL / E27 11W (x2)
			LED-PAR20 / E27 6W (x2)



WMO-443

Wall Mount Luminaire

- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as



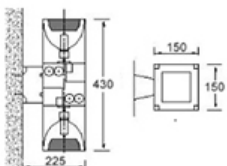
Compatible Bulb		Optional LED Replacement	
	PAR38 / E27 100W (x1)		PL / E27 14W / 18W (x1)
			LED-PAR38 / E27 15W (x1)



WMO-444

Wall Mount Luminaire

- **Housing:** Corrosion resistant extruded aluminium finished in black
- **Reflector:** Aluminium anodized reflector
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as



Compatible Bulb		Optional LED Replacement	
	PAR38 / E27 100W (x2)		PL / E27 14W / 18W (x2)
			LED-PAR38 / E27 15W (x2)



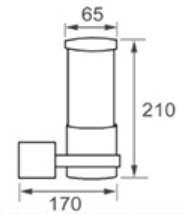
WMO-171

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor decoration such as pathway, walk way, etc.

Compatible Bulb

PL / E27
14W (x1)



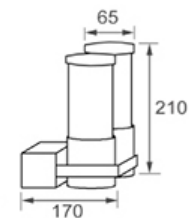
WMO-172

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor decoration such as pathway, walk way, etc.

Compatible Bulb

PL / E27
14W (x2)



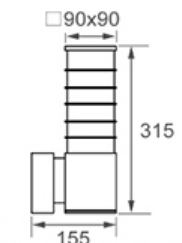
WMO-610

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor decoration such as pathway, walk way, etc.

Compatible Bulb

PL / E27
14W / 18W (x1)



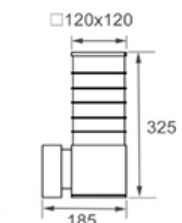
WMO-611

Wall Mount Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass lens
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for general outdoor decoration such as pathway, walk way, etc.

Compatible Bulb

PL / E27
14W / 18W (x2)





Border Luminaires

Border luminaires enhance visibility and adds immense visual appeal to your landscape. Border luminaires are commonly used to make your area so much more clear in terms of say demarcation of certain areas or boundaries.

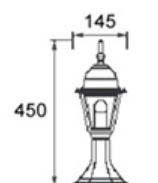


BDR-001

Border Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for landscape decoration such as terrace, wall, etc.

Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W



BDR-002

Border Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for landscape decoration such as terrace, wall, etc.

Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W

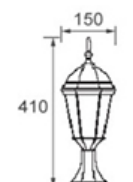


BDR-003

Border Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for landscape decoration such as terrace, wall, etc.

Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W

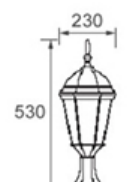


BDR-004

Border Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for landscape decoration such as terrace, wall, etc.

Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W





BDR-005

Border Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for landscape decoration such as terrace, wall, etc.

Compatible Bulb	
GLS / E27 40W / 60W	PL / E27 14W / 18W

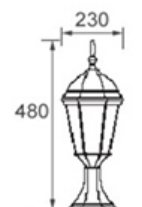


BDR-006

Border Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for landscape decoration such as terrace, wall, etc.

Compatible Bulb	
GLS / E27 40W / 60W	PL / E27 14W / 18W

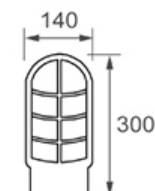


BDR-199

Border Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for landscape decoration such as terrace, wall, etc.

Compatible Bulb	
GLS / E27 40W / 60W	PL / E27 14W / 18W

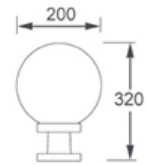




BDR-101

Border Luminaire

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for landscape decoration such as terrace, wall, etc.



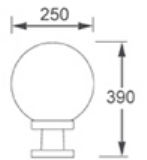
Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 8W / 11W



BDR-102

Border Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for landscape decoration such as terrace, wall, etc.



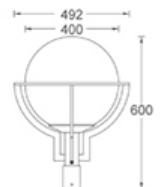
Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W



BDR-108

Border Luminaire

- **Housing:** Die-cast aluminium body
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- Suitable for landscape decoration such as terrace, wall, etc.



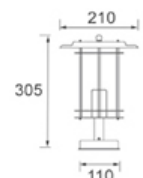
Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W



BDR-109

Border Luminaire

- **Housing:** Corrosion resistant stainless steel body
- **Diffuser:** Thermal shock resistant borosilicate glass diffuser
- **Gasket:** Stainless steel all external screws
- Suitable for general decoration such as pathway, walk way, etc.



Compatible Bulb	
 GLS / E27 40W / 60W	 PL / E27 14W / 18W



Bollard & Pillar Luminaires

SECO bollard and pillar lights are a type of an architectural outdoor lighting fixture. The term bollard refers to the shape of the vertical post in which the light is enclosed. Bollards and pillars are commonly used as landscape lights to mark the course of a path or walkway and to designate the borders of any area.



BOL-100

Round Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Painting:** Polyester powder coated with high corrosion resistance
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb									
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W



BOL-101

Round Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Painting:** Polyester powder coated with high corrosion resistance
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb									
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W



BOL-102

Round Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Painting:** Polyester powder coated with high corrosion resistance
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb									
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W





BOL-103

Round Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Louver:** Aluminium reflector
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb						
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W	
					MH-E / E27 70W	
						MV-E / E27 80W



BOL-104

Round Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Painting:** Polyester powder coated with high corrosion resistance
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb						
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W	
					MH-E / E27 70W	
						MV-E / E27 80W



BOL-105

Round Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Painting:** Polyester powder coated with high corrosion resistance
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb									
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W



BOL-106

Square Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Painting:** Polyester powder coated with high corrosion resistance
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb							
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W
							MV-E / E27 80W



BOL-107

Square Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Painting:** Polyester powder coated with high corrosion resistance
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb							
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W
							MV-E / E27 80W



BOL-108

Round Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Louver:** Aluminium reflector
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb									
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W



BOL-109

Round Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Louver:** Aluminium reflector
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



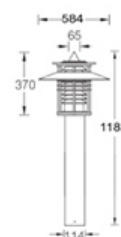
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	MH-E / E27 70W		MV-E / E27 80W		



BOL-110

Round Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Louver:** Aluminium reflector
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb					
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W
	MH-E / E27 70W		MV-E / E27 80W		



BOL-111

Round Bollard

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Louver:** Aluminium reflector
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



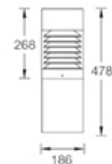
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	MH-E / E27 70W		MV-E / E27 80W		



BOL-500

Round Pillar

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Louver:** Aluminium reflector
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



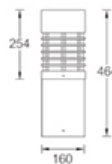
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BOL-501

Round Pillar

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb									
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W



BOL-502

Round Pillar

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



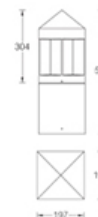
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BOL-503

Square Pillar

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Louver:** Aluminium reflector
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb							
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W
							MV-E / E27 80W



BOL-504

Square Pillar

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Opal glass diffuser
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



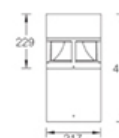
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							MV-E / E27 80W



BOL-505

Round Pillar

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Louver:** Aluminium reflector
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



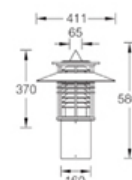
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							MV-E / E27 80W



BOL-506

Round Pillar

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Louver:** Aluminium reflector
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



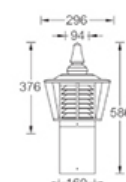
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					MH-E / E27 70W	
						MV-E / E27 80W



BOL-507

Round Pillare

- **Housing:** Corrosion resistant extruded aluminium finished in black color
- **Diffuser:** Injection molded UV stabilized clear vandal resistant polycarbonate diffuser
- **Louver:** Aluminium reflector
- **Painting:** Polyester powder coated
- **Gasket:** Stainless steel all external screws
- **Control Gear:** Integrated control gear



Compatible Bulb						
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W	
					MH-E / E27 70W	
						MV-E / E27 80W



16

Post Top Luminaires

Post top luminaire or light column is also a vertical post in which the light is enclosed but in a much taller post in order to illuminate more area than bollards. Nowadays, beside illuminating an area, post top luminaire itself is used to decorate the landscape.



PLT-001

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Clear polycarbonate diffuser
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



Compatible Bulb						
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W	
					MH-E / E27 70W	
						MV-E / E27 80W / 125W



PLT-002

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



Compatible Bulb						
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W	
					MH-E / E27 70W	
						MV-E / E27 80W / 125W



PLT-003

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Reflector:** High quality aluminium reflector
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



Compatible Bulb	
	CDM-T / G12 70W / 150W



PLT-004

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Clear polycarbonate diffuser
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



Compatible Bulb							
	PLC / G24d-x		PL / E27		HPS-E / E27		MH-E / E27

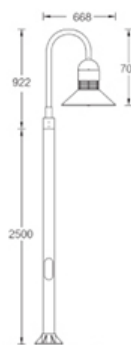




PLT-401-1

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



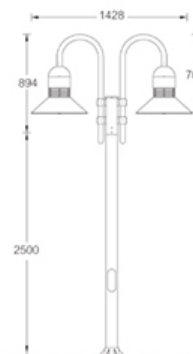
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					MH-E / E27 70W	
						MV-E / E27 80W / 125W



PLT-401-2

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



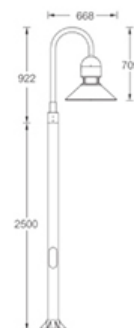
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PLT-402-1

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



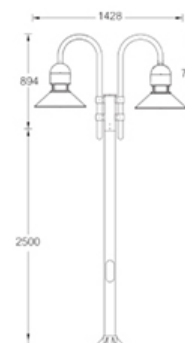
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PLT-402-2

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



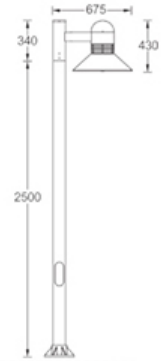
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PLT-301-1

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



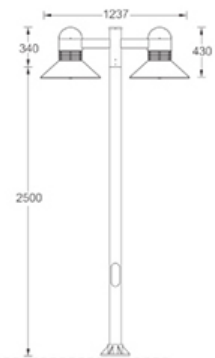
Compatible Bulb					
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	MH-E / E27 70W		MV-E / E27 80W / 125W		



PLT-301-2

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



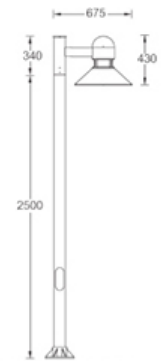
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	MH-E / E27 70W		MV-E / E27 80W / 125W		



PLT-302-1

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



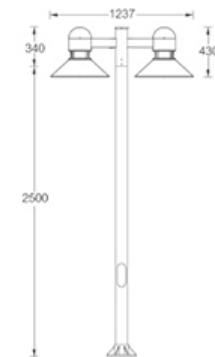
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	MH-E / E27 70W		MV-E / E27 80W / 125W		



PLT-302-2

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



Compatible Bulb					
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W
	MH-E / E27 70W		MV-E / E27 80W / 125W		



PLT-303-1

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



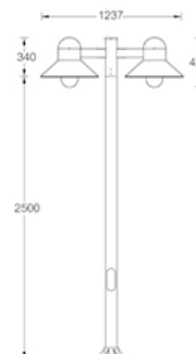
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PLT-303-2

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



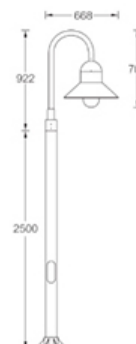
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					MH-E / E27 70W	
						MV-E / E27 80W / 125W



PLT-403-1

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



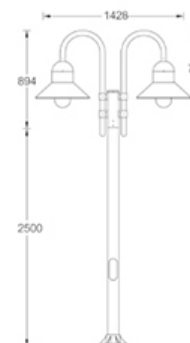
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					MH-E / E27 70W	
						MV-E / E27 80W / 125W



PLT-403-2

Post Top Luminaire

- **Housing:** Die-cast aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated in black
- **Diffuser:** Thermal shock resistant borosilicate opal glass
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



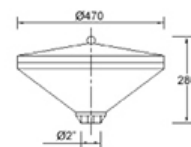
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					MH-E / E27 70W	
						MV-E / E27 80W / 125W

PLT-101

Post Top Luminaire



- **Housing:** Polycarbonate housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Diffuser:** Stipple polycarbonate diffuser
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



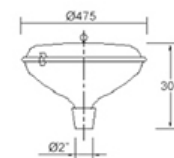
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					MH-E / E27 70W	
						MV-E / E27 80W / 125W

PLT-102

Post Top Luminaire



- **Housing:** Aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated
- **Diffuser:** Opal polycarbonate diffuser
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



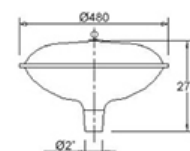
Compatible Bulb						
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W	
					MH-E / E27 70W	
						MV-E / E27 80W / 125W

PLT-103

Post Top Luminaire



- **Housing:** Polycarbonate housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Diffuser:** Opal polycarbonate diffuser
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



Compatible Bulb									
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W / 125W

PLT-104

Post Top Luminaire



- **Housing:** Polycarbonate housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Diffuser:** Opal polycarbonate diffuser
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



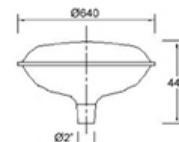
Compatible Bulb						
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W	
					MH-E / E27 70W	
						MV-E / E27 80W / 125W

PLT-105

Post Top Luminaire



- **Housing:** Aluminium housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Painting:** Polyester powder coated
- **Diffuser:** Opal polycarbonate diffuser
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



Compatible Bulb

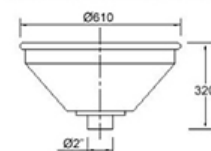
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W / 125W
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PLT-106

Post Top Luminaire



- **Housing:** Polycarbonate housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Diffuser:** Opal polycarbonate diffuser
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



Compatible Bulb

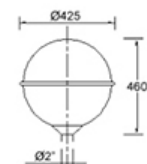
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W / 125W
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PLT-107

Post Top Luminaire



- **Housing:** Polycarbonate housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Diffuser:** Opal polycarbonate diffuser
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



Compatible Bulb

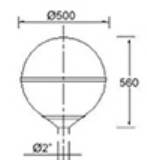
	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W / 125W
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PLT-108

Post Top Luminaire



- **Housing:** Polycarbonate housing with extruded aluminium pole of height 2.5-4m and steel base plate.
- **Diffuser:** Opal polycarbonate diffuser
- **Control Gear:** Integral control gear
- **Gasket:** Stainless steel all external screws



Compatible Bulb

	PLC / G24d-x 13W / 18W / 26W		PL / E27 11W / 15W / 20W		HPS-E / E27 70W		MH-E / E27 70W		MV-E / E27 80W / 125W
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17



Floodlight Luminaires

Floodlights are widely used with high intensity discharge lamps when even illumination across a wide area is needed. This type of lighting is most employed for decoration of buildings, public places, monuments, stadiums, airports, advertisement boards, etc.

FLD-001

Symmetry 150-1500w. Halogen Floodlight



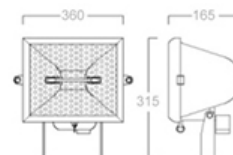
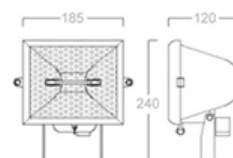
SPECIFICATION

- **Lamp Holder:** Rx7s porcelain lamp holder
- **Lamp:** Halogen
- **Wattage:** 150 - 1500 w.
- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Light Distribution:** Symmetrical light output distribution



APPLICATION

- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.



FLD-070

Symmetry 70-150w. HID Floodlight

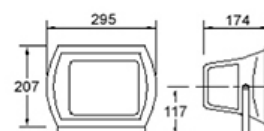


SPECIFICATION

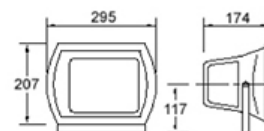
- **Lamp Holder:** Rx7s or E27 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium
- **Wattage:** 70 - 150 w.
- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Gear Box:** Built-in control gear box
- **Light Distribution:** Symmetrical light output distribution

APPLICATION

- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.



Compatible Bulb			
	MH-DE / Rx7s		HPS-DE / Rx7s
	70W / 150W		70W / 150W



Compatible Bulb	
	MH-E / E27
	70W / 150W

FLD-444

Asymmetry 70-150w. HID Floodlight

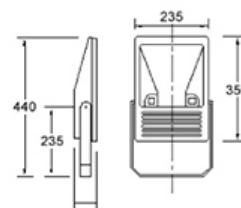


SPECIFICATION

- **Lamp Holder:** Rx7s porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium
- **Wattage:** 70 - 150 w.
- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Gear Box:** Built-in control gear box
- **Light Distribution:** Asymmetrical light output distribution

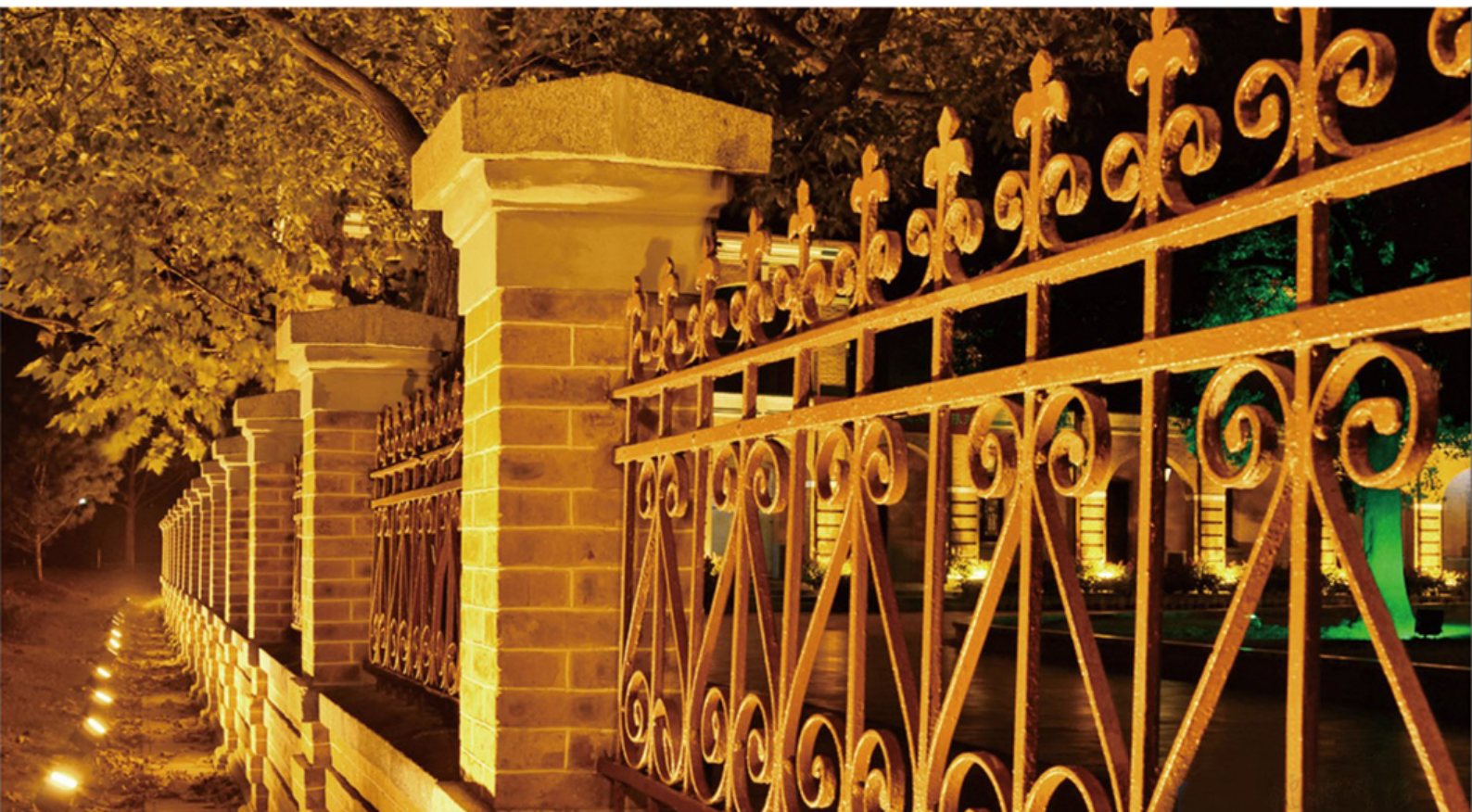
APPLICATION

- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.



Compatible Bulb

MHN-TD / RX7s
70W / 150W





FLD-555

Symmetry 250-400w. HID Floodlight

SPECIFICATION

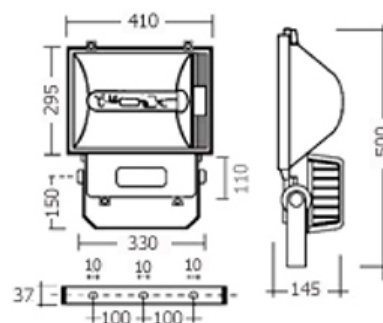
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Die-cast aluminium body and frame finished in black color
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Gear Box:** Built-in control gear box
- **Light Distribution:** Symmetrical light output distribution



APPLICATION

- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.

Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
			MV / E27 250W / 400W



FLD-666

Asymmetry 250-400w. HID Floodlight



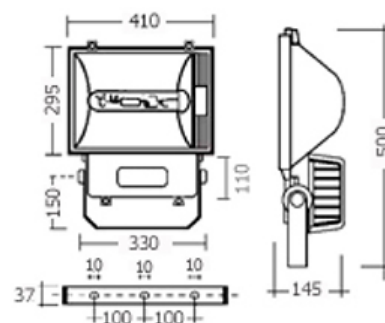
SPECIFICATION

- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 250 - 400 w.
- **Housing:** Die-cast aluminium body and frame finished in black color
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Gear Box:** Built-in control gear box
- **Light Distribution:** Asymmetrical light output distribution

APPLICATION

- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.

Compatible Bulb			
	HPS-E / E27 250W / 400W		MH-E / E27 250W / 400W
	MV / E27 250W / 400W		



FLD-129

Symmetry 1000w. HID Floodlight

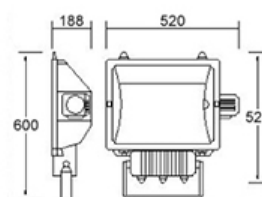


SPECIFICATION

- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium
- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Gear Box:** Built-in control gear box

APPLICATION

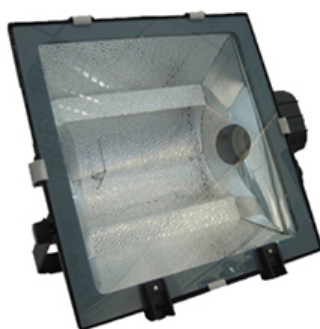
- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.



Compatible Bulb			
	HPS-T / E40 1000W		MH-T / E40 1000W

FLD-777

Symmetry 1000w. HID Floodlight

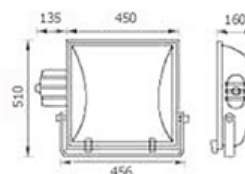


SPECIFICATION

- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium
- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Gear Box:** Separated control gear box

APPLICATION

- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.



Compatible Bulb			
	HPS-T / E40 1000W		MH-T / E40 1000W

FLD-024

Symmetry 1000-2000w. HID Floodlight

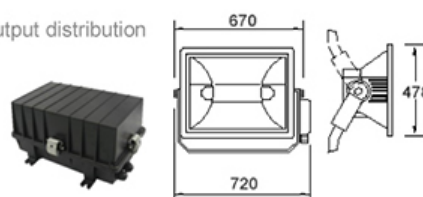


SPECIFICATION

- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium
- **Wattage:** 1000 - 2000 w.
- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Gear Box:** Separate gear-box
- **Light Distribution:** Asymmetrical light output distribution

APPLICATION

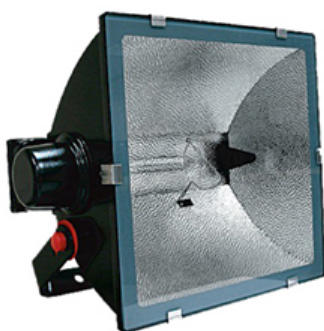
- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.



Compatible Bulb	
	HPS-T / E40 1000W
	MH-T / E40 1000W / 2000W

FLD-200

Symmetry 2000w. HID Floodlight

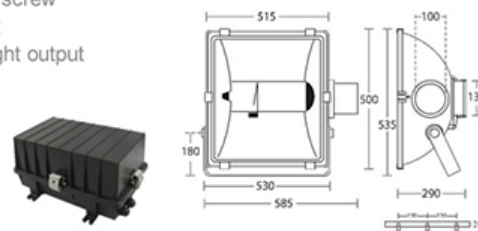


SPECIFICATION

- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide
- **Wattage:** 2000 w.
- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Gear Box:** Built-in control gear box
- **Light Distribution:** Symmetrical light output distribution

APPLICATION

- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.



Compatible Bulb	
	MH-T / E40 2000W

FLD-151

Symmetry 250-400w. HID Floodlight

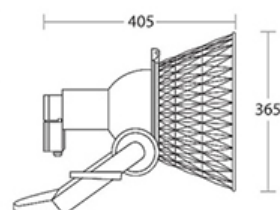


SPECIFICATION

- **IP Rating:** IP20 for open type and IP65 for close type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium
- **Wattage:** 250 - 400 w.
- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Gear Box:** Built-in control gear box
- **Light Distribution:** Asymmetrical light output distribution

APPLICATION

- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.



Compatible Bulb

	HPS-T / E40 250W / 400W		MH-T / E40 250W / 400W
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FLD-152

Symmetry 1000w. HID Floodlight

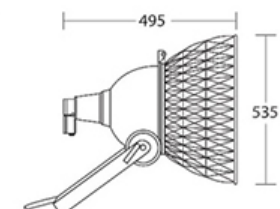


SPECIFICATION

- **IP Rating:** IP20 for open type and IP65 for close type
- **Lamp Holder:** E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium
- **Wattage:** 250 - 400 w.
- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw
- **Gear Box:** Built-in control gear box
- **Light Distribution:** Symmetrical light output distribution

APPLICATION

- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.



Compatible Bulb

	MH-T / E40 1000W
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FLD-028

Spot 70-1000w. Floodlight



SPECIFICATION

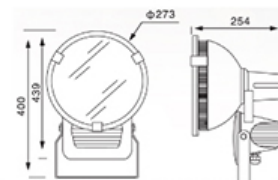
- **Lamp Holder:** E27, E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 70 - 1000 w.
- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Tempered glass with thermal shock resistant in a hinged with stainless steel clips and screw

APPLICATION

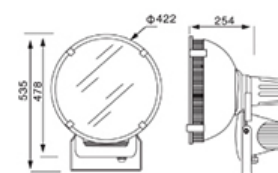
- Suitable for architectural or general purpose lighting such as building facades, hotels, billboards, parking lots, etc.



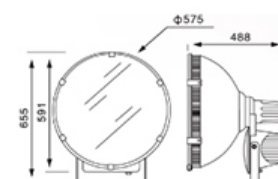
Compatible Bulb			
	HPS-T / E27		MH-T / E27
	70W / 150W		70W / 150W



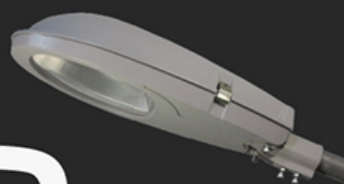
Compatible Bulb	
	MH-T / E40
	250W / 400W



Compatible Bulb			
	HPS-T / E40		MH-T / E40
	1000W		1000W



18



Street Light Luminaires

Street light is a raised light source on the edge of a road or walkway to give illumination to large area such as street, parking lot, etc. Today, street lighting often uses high pressure sodium lamps which provides the greatest amount of photonic illumination.



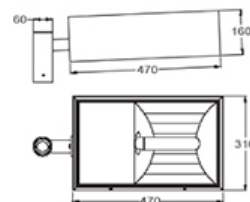
CNP

Area Light Luminaire

- **Lamp Holder:** E27, E40 porcelain lamp holder
- **Lamp:** Metal Halide, High Pressure Sodium, Mercury
- **Wattage:** 70 - 400 w.
- **Housing:** Die-formed aluminium sheet
- **Painting:** Polyester powder coated in black or white
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** Clear tempered glass with aluminium extruded frame and stainless steel screws
- **Reflector:** 99.85% high purity anodized aluminium reflector with Total Reflectance of 87% with matt finished
- **Control Gear:** Built-in control gear

CNP-011

70-150w Post Top Luminaire

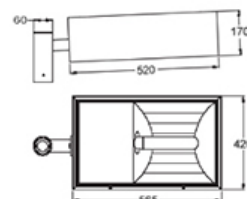


Compatible Bulb

	HPS-E / E27 70W		MH-E / E27 70W / 150W		MV / E27 80W / 125W
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CNP-012

250-400w Post Top Luminaire



Compatible Bulb

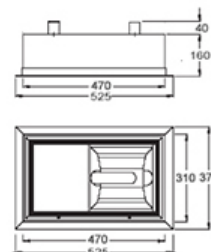
	HPS-T / E40 250W / 400W		MH-T / E40 250W / 400W		MV / E40 250W
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CNR-011

HID Recessed Mounting Luminaire



- **Housing:** Die-formed aluminium
- **Painting:** Polyester powder coated in black or white
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Clear tempered glass with aluminium extruded frame and stainless steel screws
- **Control Gear:** Built-in control gear



Compatible Bulb

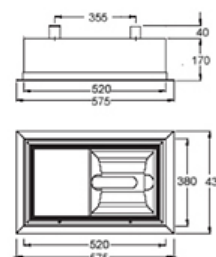
	HPS-E / E27 70W		MH-E / E27 70W / 150W		MV / E27 80W / 125W
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CNR-012

HID Recessed Mounting Luminaire



- **Housing:** Die-formed aluminium
- **Painting:** Polyester powder coated in black or white
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Clear tempered glass with aluminium extruded frame and stainless steel screws
- **Control Gear:** Built-in control gear



Compatible Bulb

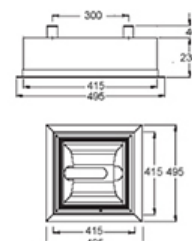
	HPS-T / E40 250W / 400W		MH-T / E40 250W / 400W		MV / E40 250W
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CNR-022

HID Recessed Mounting Luminaire



- **Housing:** Die-formed aluminium
- **Painting:** Polyester powder coated in black or white
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Clear tempered glass with aluminium extruded frame and stainless steel screws
- **Control Gear:** Built-in control gear



Compatible Bulb

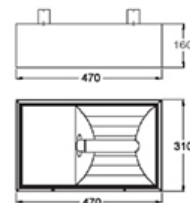
	HPS-T / E40 250W / 400W		MH-T / E40 250W / 400W		MV / E40 250W
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CNS-011

HID Surface Mounting Luminaire



- **Housing:** Die-formed aluminium
- **Painting:** Polyester powder coated in black or white
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Clear tempered glass with aluminium extruded frame and stainless steel screws
- **Control Gear:** Built-in control gear



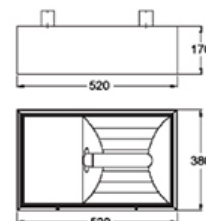
Compatible Bulb			
	HPS-E / E27 70W		MH-E / E27 70W / 150W
			MV / E27 80W / 125W

CNS-012

HID Surface Mounting Luminaire



- **Housing:** Die-formed aluminium
- **Painting:** Polyester powder coated in black or white
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Clear tempered glass with aluminium extruded frame and stainless steel screws
- **Control Gear:** Built-in control gear



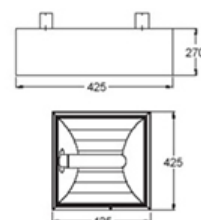
Compatible Bulb			
	HPS-T / E40 250W / 400W		MH-T / E40 250W / 400W
			MV / E40 250W

CNS-022

HID Surface Mounting Luminaire



- **Housing:** Die-formed aluminium
- **Painting:** Polyester powder coated in black or white
- **Gasket:** Weather proof and durable silicone rubber
- **Reflector:** Anodized aluminium reflector
- **Diffuser:** Clear tempered glass with aluminium extruded frame and stainless steel screws
- **Control Gear:** Built-in control gear



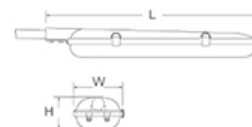
Compatible Bulb			
	HPS-T / E40 250W / 400W		MH-T / E40 250W / 400W
			MV / E40 250W

STA

T8 Aluminium Fluorescent Street Light



- **Housing:** Die-formed aluminium body with steel plate for mounting control gear
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** Clear polycarbonate diffuser



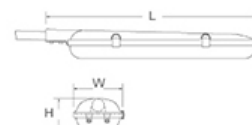
MODEL NO	WATT	DIMENSION (mm.)			
		L	W	H	Rod
STA-118	1 x T8 18w.	735	130	110	33 (1")
STA-218	2 x T8 18w.	740	180	130	48 (1.5")
STA-136	1 x T8 36w.	1340	130	110	33 (1")
STA-236	2 x T8 36w.	1350	180	130	48 (1.5")

STS

T8 Steel Fluorescent Street Light



- **Housing:** Die-formed steel body with steel plate for mounting control gear
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** Clear polycarbonate diffuser



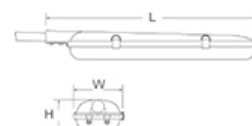
MODEL NO	WATT	DIMENSION (mm.)			
		L	W	H	Rod
STS-118	1 x T8 18w.	735	130	110	33 (1")
STS-218	2 x T8 18w.	740	180	130	48 (1.5")
STS-136	1 x T8 36w.	1340	130	110	33 (1")
STS-236	2 x T8 36w.	1350	180	130	48 (1.5")

ST5

T5 Aluminium Fluorescent Street Light



- **Housing:** Die-formed aluminium body with steel plate for mounting control gear
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** Clear polycarbonate diffuser



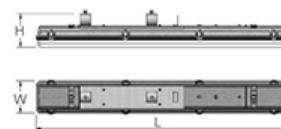
MODEL NO	WATT	DIMENSION (mm.)			
		L	W	H	Rod
ST5-114	1 x T5 14w.	735	130	110	33 (1")
ST5-214	2 x T5 14w.	740	180	130	48 (1.5")
ST5-128	1 x T5 28w.	1345	120	110	33 (1")
ST5-228	2 x T5 28w.	1370	160	130	48 (1.5")

STP8

T8 Weatherproof Fluorescent Street Light



- **Housing:** UV Stabilized polycarbonate body
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** Polycarbonate diffuser with stainless clip locks
- **Reflector:** Anodized aluminium reflector (Optional)
- **Gear Box:** Built-in control gear box



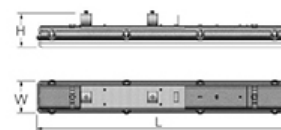
MODEL NO	WATT	DIMENSION (mm.)			
		L	W	H	Rod
STP8-118	1 x T8 18w.	670	110	160	33 (1")
STP8-218	2 x T8 18w.	1270	170	175	48 (1.5")
STP8-136	1 x T8 36w.	670	110	160	33 (1")
STP8-236	2 x T8 36w.	1270	170	175	48 (1.5")

STP5

T5 Weatherproof Fluorescent Street Light



- **Housing:** UV Stabilized polycarbonate body
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** Polycarbonate diffuser with stainless clip locks
- **Reflector:** Anodized aluminium reflector (Optional)
- **Gear Box:** Built-in control gear box



MODEL NO	WATT	DIMENSION (mm.)			
		L	W	H	Rod
STP5-114	1 x T5 14w.	610	60	130	33 (1")
STP5-214	2 x T5 14w.	1210	100	150	48 (1.5")
STP5-128	1 x T5 28w.	610	60	130	33 (1")
STP5-228	2 x T5 28w.	1210	100	150	48 (1.5")

STH-001

HID Street Light 70-150w

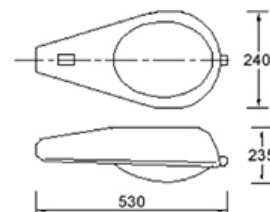


SPECIFICATION

- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Reflector:** High-pure aluminium plate through pressing
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** Borosilicate glass prismatic diffuser
- **Gear Box:** Built-in control gear box
- **Connector:** Fit to 1.5inch pipe

APPLICATION

- Suitable for parking lots, residential street, local roads, industrial areas, and other roadway application.



Compatible Bulb

	HPS-E / E27 70W / 150W		MH-E / E27 70W / 150W		MV / E27 80W / 125W
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STH-002

HID Street Light 70-150w

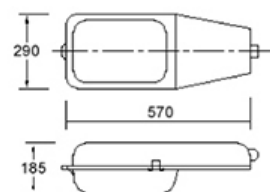


SPECIFICATION

- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Reflector:** High-pure aluminium plate through pressing
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** UV stabilized polycarbonate diffuser
- **Gear Box:** Built-in control gear box
- **Connector:** Fit to 1.5inch pipe

APPLICATION

- Suitable for parking lots, residential street, local roads, industrial areas, and other roadway application.



Compatible Bulb

	HPS-E / E27 70W		MH-E / E27 70W / 150W		MV / E27 80W / 125W
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STH-101

HID Street Light 250-400w

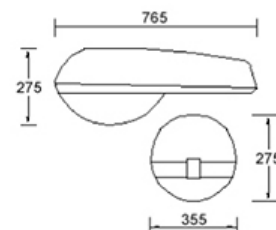


SPECIFICATION

- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Reflector:** High-pure aluminium plate through pressing
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** Borosilicate glass prismatic diffuser
- **Gear Box:** Built-in control gear box
- **Connector:** Fit to 2inch pipe

APPLICATION

- Suitable for parking lots, residential street, local roads, industrial areas, and other roadway application.



Compatible Bulb

	HPS-E / E40 250W / 400W		MH-E / E40 250W / 400W		MV / E40 250W
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STH-102

HID Street Light 250-400w

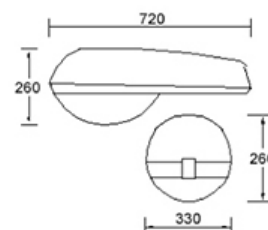


SPECIFICATION

- **Housing:** Corrosion resistant die cast aluminium body
- **Reflector:** High-pure aluminium plate through pressing
- **Painting:** Polyester powder coated
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** UV stabilized polycarbonate diffuser
- **Gear Box:** Built-in control gear box
- **Connector:** Fit to 2inch pipe

APPLICATION

- Suitable for parking lots, residential street, local roads, industrial areas, and other roadway application.



Compatible Bulb

	HPS-E / E40 250W / 400W		MH-E / E40 250W / 400W		MV / E40 250W
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STH-555

HID Street Light 70-400w



SPECIFICATION

- **Housing:** Die-casting aluminium body
- **Painting:** Polyester powder coated
- **Reflector:** High-pure anodized aluminium reflector
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** Borosilicate glass prismatic diffuser
- **Gear Box:** Built-in control gear box
- **Connector:** Adjustable joint 90 degree to fit with 1.5inch pipe
- **Maintenance:** Top-open cover for ease of maintenance

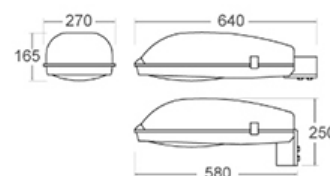
APPLICATION

- Suitable for parking lots, residential street, local roads, industrial areas, and other roadway application.



STH-555/1

HID Street Light 70-150w

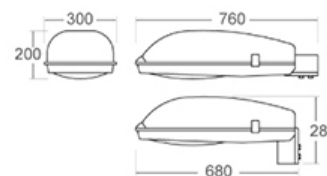


Compatible Bulb

	HPS-E / E27 70W / 150W		MH-E / E27 70W / 150W		MV / E27 80W / 125W
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STH-555/2

HID Street Light 250-400w



Compatible Bulb

	HPS-E / E40 250W / 400W		MH-E / E40 250W / 400W		MV / E40 250W
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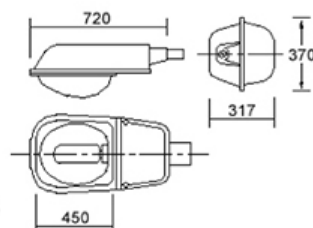
STH-201

HID Street Light 250-400w



SPECIFICATION

- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Reflector:** High-pure aluminium plate through pressing
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** UV stabilized polycarbonate diffuser
- **Gear Box:** Built-in control gear box
- **Connector:** Fit to 2inch pipe



APPLICATION

- Suitable for parking lots, residential street, local roads, industrial areas, and other roadway application.

Compatible Bulb			
	HPS-E / E40 250W / 400W		MH-E / E40 250W / 400W
			MV / E40 250W



STH-888

Compact Fluorescent Street Light 15-65w

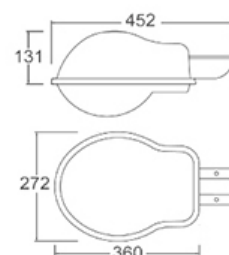


SPECIFICATION

- **Housing:** Corrosion resistant die cast aluminium body
- **Painting:** Polyester powder coated
- **Reflector:** High-pure aluminium plate through pressing
- **Gasket:** Weather proof and durable silicone rubber
- **Diffuser:** UV stabilized polycarbonate diffuser
- **Gear Box:** Built-in control gear box
- **Connector:** Fit to 1Inch pipe

APPLICATION

- Suitable for parking lots, residential street, local roads, industrial areas, and other roadway application.



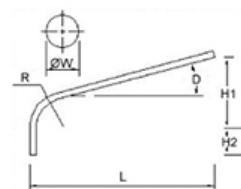
STZ-1

Street Light Bracket



- High quality steel pipe of diameter 1"-2"
- Hot dip galvanized finishing
- Use with support for wall mounting

MODEL NO	DIAMETER (inches.)	LENGTH (m)	CURVE (R)
STZ-110 / 255 / 15	1"	1.5	255
STZ-115 / 255 / 15	1.5"	1.5	255
STZ-120 / 255 / 15	2"	1.5	255



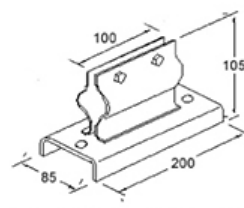
STZ-4

Fixed Support Clamp



- High quality steel pipe of diameter 1"-1.5"
- Hot dip galvanized finishing
- Use with bracket for wall mounting

MODEL NO	DIAMETER (inches.)	DIMENSION			REMARK
		L	W	H	
STZ-410	1"	200	85	105	FIXED
STZ-415	1.5"	240	100	120	FIXED



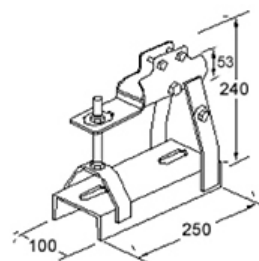
STZ-5

Adjustable Support Clamp



- High quality steel pipe of diameter 1.5"-2"
- Hot dip galvanized finishing
- Use with bracket for wall mounting

MODEL NO	DIAMETER (inches.)	DIMENSION			REMARK
		L	W	H	
STZ-515	1.5"	250	100	240	ADJUSTABLE
STZ-520	2"	250	100	240	ADJUSTABLE



19

Lighting Pole & High Mast

Lighting pole or high mast pole is a tall pole with lighting attached to the top pointing towards the ground, usually but not always used to light a highway, or recreation field. Most of lighting pole make of hot-dipped galvanized from 2.5m to 25m. for mounting street light or floodlights to illuminate the large area such as highways, fields, etc.



PRP-901

Kinnaree Sculpture Pole

- **Hoursing:** Die-cast aluminium coated with gold shade
- **Diffuser:** Thermal shock resistant borosilicate lotus-shaped glass
- **Pole:** Anti-rusted steel pole with aluminium joint and base
- **Maintenance:** Service door for ease of lightng installation and maintenance
- **Lampholder:** E27
- **Remark:** Length could be adjustable upon request



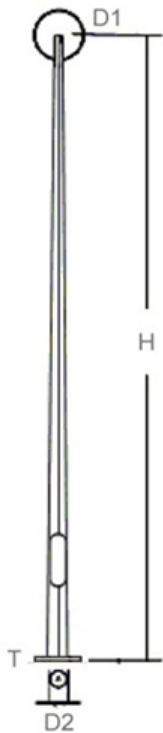
PRP-902

Swan Sculpture Pole

- **Hoursing:** Die-cast aluminium coated with gold shade
- **Diffuser:** Thermal shock resistant borosilicate lotus-shaped glass
- **Pole:** Anti-rusted steel pole with aluminium joint and base
- **Maintenance:** Service door for ease of lightng installation and maintenance
- **Lampholder:** E27
- **Remark:** Length could be adjustable upon request



Remark: Please contact for more information



PTP-001

Tapered Pole

- Hot roll steel sheet of thickness 3.5 - 4.0mm.
- Hot-dip galvanized finishing
- Service door for ease of lighting installation and maintenance
- Length of 3-14m. available
- Withstand wind load from 120 km/hr to 150 km/hr
- Yield point strength more than 25 Kg./Sq.mm.
- Tensile strength more than 41 Kg./Sq.mm.

MODEL NO	SERVICE DOOR (mm.)	DIMENSION (mm.)					
		H	D1	D2	A	B	C
PTP-001 / 03	-	3000	60	103	300	200	22
PTP-001 / 04	55 x 170	4000	60	117	350	250	32
PTP-001 / 05	55 x 170	5000	60	131	350	250	32
PTP-001 / 06	85 x 300	6000	60	146	350	250	32
PTP-001 / 07	85 x 400	7000	60	160	350	250	32
PTP-001 / 08	90 x 400	8000	60	174	380	250	32
PTP-001 / 09	90 x 400	9000	60	189	400	300	32
PTP-001 / 10	90 x 400	10000	76	219	450	350	32
PTP-001 / 12	90 x 400	12000	76	247	450	350	32
PTP-001 / 14	90 x 400	14000	76	246	600	400	38

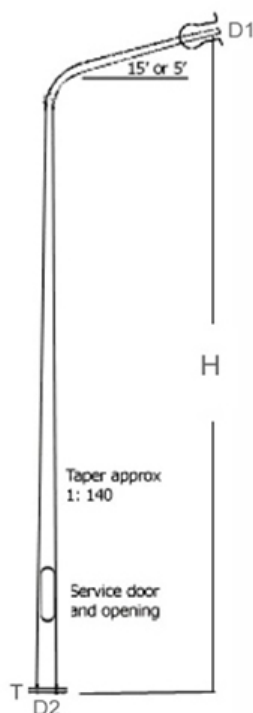


PHM-001

High Mast Pole

- Hot roll steel sheet of thickness 4.5 - 6.0mm.
- Hot-dip galvanized finishing
- Service door for ease of lighting installation and maintenance
- Length of 15-30m. available
- Withstand wind load from 120 km/hr to 150 km/hr
- Yield point strength more than 25 Kg./Sq.mm.
- Tensile strength more than 41 Kg./Sq.mm.

MODEL NO	SERVICE DOOR (mm.)	DIMENSION (mm.)					
		H	D1	D2	A	B	Thickness
PHM-001 / 15	240 X 1200	15000	185	410	650	530	4.5
PHM-001 / 20	240 X 1200	20000	185	488	750	619	4.5
PHM-001 / 25	240 X 1200	25000	185	488	750	619	4.5
PHM-001 / 30	240 X 1200	30000	185	600	850	720	6.0

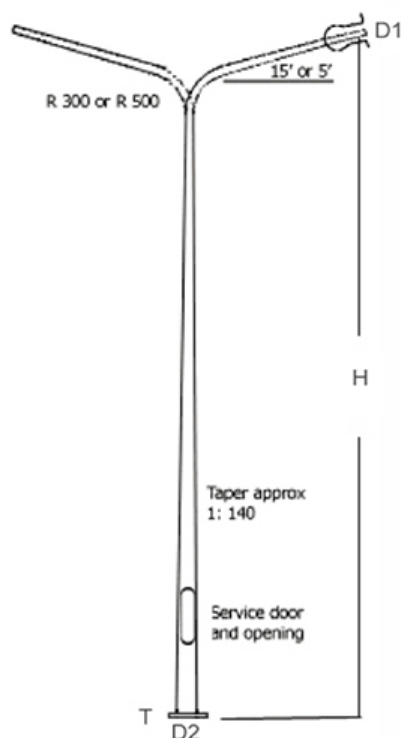


PBK-001

Tapered Pole with Single Bracket

- Hot roll steel sheet of thickness 3.5 - 4.0mm.
- Hot-dip galvanized finishing
- Service door for ease of lighting installation and maintenance
- Length of 3-12m. available
- Withstand wind load from 120 km/hr to 150 km/hr
- Yield point strength more than 25 Kg./Sq.mm.
- Tensile strength more than 41 Kg./Sq.mm.

MODEL NO	SERVICE DOOR (mm.)	DIMENSION (mm.)						
		H	D1	D2	R	A	B	C
PBK-001 / 05	55 x 170	5000	60	113	2000	350	250	32
PBK-001 / 06	85 x 300	6000	60	127	2000	350	250	32
PBK-001 / 07	85 x 400	7000	60	141	2000	350	250	32
PBK-001 / 08	90 x400	8000	60	156	2000	350	250	32
PBK-001 / 09	90 x400	9000	60	170	2500	380	300	32
PBK-001 / 10	90 x400	10000	76	200	2500	400	350	32
PBK-001 / 11	90 x400	11000	76	215	2500	450	350	32
PBK-001 / 12	90 x400	12000	76	219	2500	450	350	32

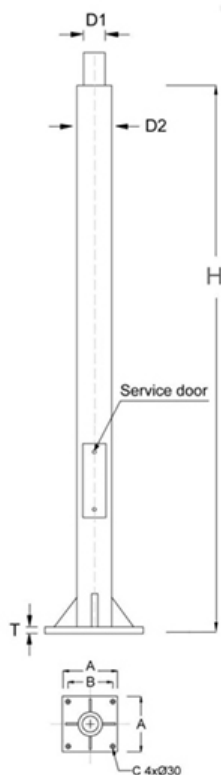


PBK-002

Tapered Pole with Double Bracket

- Hot roll steel sheet of thickness 3.5 - 4.0mm.
- Hot-dip galvanized finishing
- Service door for ease of lighting installation and maintenance
- Length of 3-12m. available
- Withstand wind load from 120 km/hr to 150 km/hr
- Yield point strength more than 25 Kg./Sq.mm.
- Tensile strength more than 41 Kg./Sq.mm.

MODEL NO	SERVICE DOOR (mm.)	DIMENSION (mm.)						
		H	D1	D2	R	A	B	C
PBK-002 / 05	55 x 170	5000	60	113	2000	350	250	32
PBK-002 / 06	85 x 300	6000	60	127	2000	350	250	32
PBK-002 / 07	85 x 400	7000	60	141	2000	350	250	32
PBK-002 / 08	90 x400	8000	60	156	2000	350	250	32
PBK-002 / 09	90 x400	9000	60	170	2500	380	300	32
PBK-002 / 10	90 x400	10000	76	200	2500	400	350	32
PBK-002 / 11	90 x400	11000	76	215	2500	450	350	32
PBK-002 / 12	90 x400	12000	76	219	2500	450	350	32

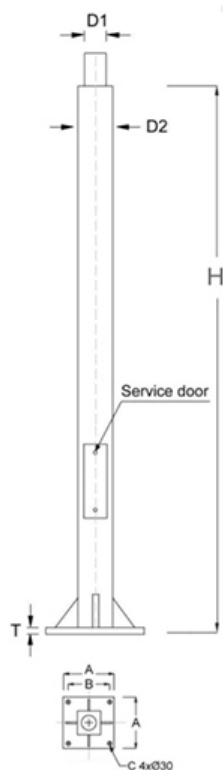


PRP-001

Round Straight Pole

- Zinc-coated round steel
- Power-coated finishing
- Service door for ease of lighting installation and maintenance
- Length of 3-9m. available

MODEL NO	SERVICE DOOR (mm.)	DIMENSION (mm.)					
		H	D2	D1	A	B	T
PRP-001 / 25A	60 x 200	2500	60	76	150	120	10
PRP-001 / 30A	60 x 200	3000	60	76	150	120	10
PRP-001 / 35A	60 x 200	3500	60	76	150	120	10
PRP-001 / 40A	60 x 200	4000	60	76	150	120	10
PRP-001 / 30B	80 x 250	3000	60	114	250	200	15
PRP-001 / 35B	80 x 250	3500	60	114	250	200	15
PRP-001 / 40B	80 x 250	4000	60	114	250	200	15
PRP-001 / 45B	80 x 250	4500	60	114	250	300	20
PRP-001 / 50B	80 x 250	5000	60	114	250	300	20
PRP-001 / 60B	80 x 250	6000	60	114	250	300	20
PRP-001 / 50C	85 x 300	5000	60	140	300	250	20
PRP-001 / 60C	85 x 300	6000	60	140	300	250	20
PRP-001 / 70C	85 x 300	7000	60	140	400	300	25
PRP-001 / 80C	85 x 300	8000	60	140	400	300	25

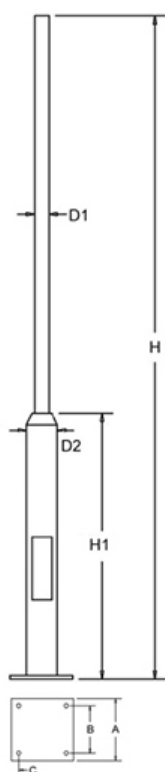


PSP-001

Square Straight Pole

- Zinc-coated square steel
- Power-coated finishing
- Service door for ease of lighting installation and maintenance
- Length of 3-9m. available

MODEL NO	SERVICE DOOR (mm.)	DIMENSION (mm.)					
		H	D2	D1	A	B	T
PSP-001 / 25A	60 x 200	2500	60	76	150	120	10
PSP-001 / 30A	60 x 200	3000	60	76	150	120	10
PSP-001 / 35A	60 x 200	3500	60	76	150	120	10
PSP-001 / 40A	60 x 200	4000	60	76	150	120	10
PSP-001 / 30B	80 x 250	3000	60	114	250	200	15
PSP-001 / 35B	80 x 250	3500	60	114	250	200	15
PSP-001 / 40B	80 x 250	4000	60	114	250	200	15
PSP-001 / 45B	80 x 250	4500	60	114	250	300	20
PSP-001 / 50B	80 x 250	5000	60	114	250	300	20
PSP-001 / 60B	80 x 250	6000	60	114	250	300	20
PSP-001 / 50C	85 x 300	5000	60	140	300	250	20
PSP-001 / 60C	85 x 300	6000	60	140	300	250	20
PSP-001 / 70C	85 x 300	7000	60	140	400	300	25
PSP-001 / 80C	85 x 300	8000	60	140	400	300	25



PUP-001

Upright Straight Pole

- Hot dip galvanizing round steel pole for rust and corrosion proof
- Built-in control gear compartment
- Service door for ease of lighting installation and maintenance
- Length of 2.5-3.5m. available

MODEL NO	SERVICE DOOR (mm.)	DIMENSION (mm.)							
		H	H1	D1	D2	A	B	C	T
PUP-001S / 25	100 x 250	2500	110	48	115	250	190	28	10
PUP-001L / 25	100 x 250	2500	100	60	115	250	190	28	10
PUP-001S / 30	100 x 250	3000	110	48	115	250	190	28	10
PUP-001L / 30	100 x 250	3000	110	60	115	250	190	28	10
PUP-001L / 30	100 x 250	3500	110	60	115	250	190	28	10



PCF

Cartridge Fuse

- High quality porcelain
- Copper nickled contact
- E27 lampholder
- Max current: 25A
- Max voltage: 500V

20

Lamp Holders




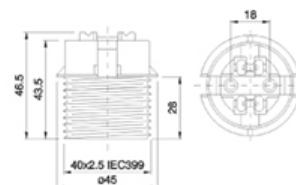
SECO is an authorized distributor of ARDITI's lampholders which is a well known Italian brand for lighting accessories. We provided a wide range of lighting accessories for various applications with certifications that is applicable for several worldwide standards.

E27 Lampholder Set

Thermoplastic Lampholder Set



- **Description:** Spring type for cable $0.5 \times 2.5\text{mm}^2$
- **Material:** Thermoplastic
- **Country:** Europe
- **Rating:** 4A-250V, T210
- **Standard:** ENEC03
- **Mark:** 

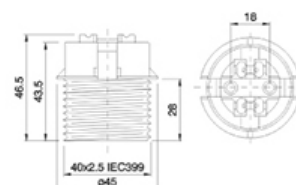


E26 Lampholder Set

Thermoplastic Lampholder Set



- **Description:** Spring type for cable $0.5 \times 2.5\text{mm}^2$
- **Material:** Thermoplastic
- **Country:** United States
- **Rating:** 600W-250V, T150
- **Standard:** cRUus
- **Mark:** 

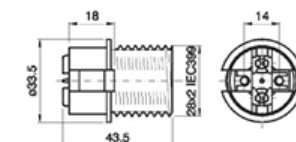


E14 Lampholder Set

Thermoplastic Lampholder Set



- **Description:** Spring type for cable $0.5 \times 2.5\text{mm}^2$
- **Material:** Thermoplastic
- **Country:** Europe
- **Rating:** 4A-250V, T210
- **Standard:** ENEC03
- **Mark:** 

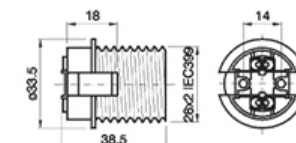


E12 Lampholder Set

Thermoplastic Lampholder Set



- **Description:** Spring type for cable $0.5 \times 2.5\text{mm}^2$
- **Material:** Thermoplastic
- **Country:** United States
- **Rating:** 600W-250V, T150
- **Standard:** cRUus
- **Mark:** 

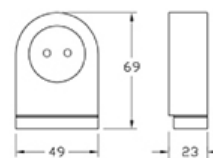




LWS

Spring-Loaded Type Lampholder

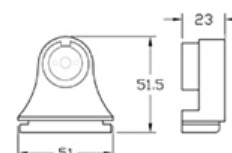
- **Description:** For T8 fluorescent lamp
- **Housing:** Polycarbonate
- **Cable:** Terminal 0.5 - 1mm²
- **Operating Temperature:** 130°C
- **Voltage Rating:** 2A/250V
- **Standard:** TIS 344-1987



LWN

Spring-Loaded Type Lampholder

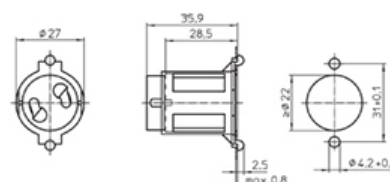
- **Description:** For T8 fluorescent lamp
- **Housing:** Polycarbonate
- **Cable:** Terminal 0.5 - 1mm²
- **Operating Temperature:** 130°C
- **Voltage Rating:** 2A/250V
- **Standard:** TIS 344-1987



ST1

Starter Socket

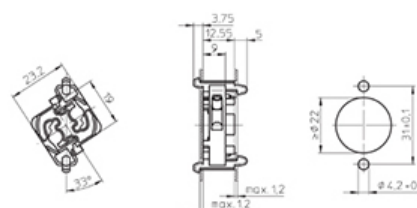
- **Description:** For starter
- **Housing:** Polycarbonate
- **Cable:** Terminal 0.5 - 1mm²
- **Operating Temperature:** 100°C
- **Voltage Rating:** 2A/300V
- **Standard:** TIS 344-1987



ST2

Starter Holder

- **Description:** For starter
- **Housing:** Polycarbonate
- **Cable:** Terminal 0.5 - 1mm²
- **Operating Temperature:** 100°C
- **Voltage Rating:** 2A/300V
- **Standard:** TIS 344-1987

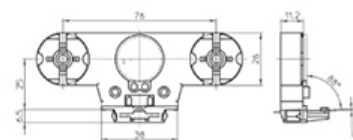




G13-TW-S0

G13 Twin Lampholder For T8

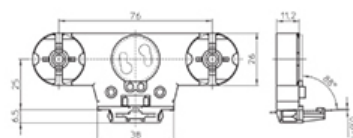
- **Material:** PC, white, roter: PBT GF, white
- **Rating:** T130, 2/500
- **Contact:** Rotary-lock Type
- **Base-fit Terminals:** Push-fit foot for wall thickness 1mm.
- **Push-in Terminals:** 0.5 - 1.0 mm²



G13-TW-S1

G13 Twin Lampholder with Starter Holder For T8

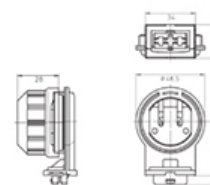
- **Material:** PC, white, roter: PBT GF, white
- **Rating:** T130, 2/500
- **Contact:** Rotary-Lock Type
- **Base-fit Terminals:** Push-fit foot for wall thickness 1mm.
- **Push-in Terminals:** 0.5 - 1.0 mm²



G13-WP-1

G13 Rotary Waterproof Lampholder

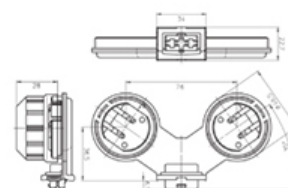
- **Material:** PC, white, roter: PBT GF, white
- **Rating:** T140, 2/500
- **Terminal Rating:** T_m 110°C
- **Contact:** Rotary-lock Type
- **Push-in Terminals:** 0.5 - 1.0 mm²



G13-WP-2

G13 Rotary Waterproof Lampholder

- **Material:** PC, white, roter: PBT GF, white
- **Rating:** T140, 2/500
- **Terminal Rating:** T_m 110°C
- **Contact:** Rotary-lock Type
- **Push-in Terminals:** 0.5 - 1.0 mm²

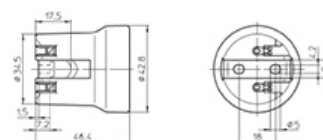




E27-VS

E27 Porcelain Ceramic Lampholder

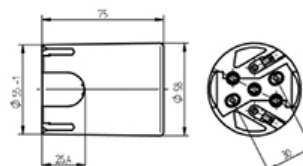
- **Material:** Porcelain
- **Rating:** T270, 4/500/5 kV
- **Contact:** Spring loaded central contact
- **Screw Size:** Fixing oblong holes for screws M4
- **Screw Terminals:** 0.5 - 2.5 mm²



E40-VS

E40 Porcelain Ceramic Lampholder

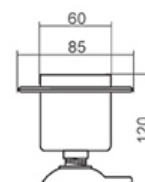
- **Material:** Porcelain
- **Rating:** T270, 18/500/5 kV
- **Contact:** Spring loaded central contact
- **Screw Size:** Fixing oblong holes for screws M5
- **Screw Terminals:** 1.5 - 4.0 mm²



LH-00-E27

E27 Porcelain With Metal Jacket

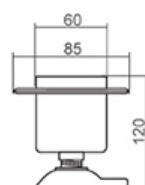
- **Material:** Porcelain E27 lamp holder
- **Housing:** Extruded aluminium
- **Rating:** T270, 4/500/5 kV
- **Contact:** Spring loaded central contact
- **Screw Size:** Fixing oblong holes for screws M4
- **Screw Terminals:** 0.5 - 2.5 mm²



LH-00-E40

E40 Porcelain With Metal Jacket

- **Material:** Porcelain E40 lamp holder
- **Housing:** Extruded aluminium
- **Rating:** T270, 18/500/5 kV
- **Contact:** Spring loaded central contact
- **Screw Size:** Fixing oblong holes for screws M5
- **Screw Terminals:** 1.5 - 4.0 mm²



21



Cordsets

SECO is one stop solution for new lighting developers and new lighting exporters. We have a wide range of cordsets which applicable for several standards worldwide. We also provide free advice for exporters to choose and develop new products that will be applicable to targeted overseas market.



VDE-2

VDE 2-pin Plug With Cordset

- Description: 2-rounding plug
- Cable: Flat 2-core cable (H03VVH2-F 2x0.75mm²)
- Country: Europe
- Rating: 2.5A - 250V
- Standard: VDE 0281
- Color: Black, White, Transparent
- Mark:



MODEL NO	COLOR	LENGTH (m.)
VDE-2 / BK / 200	Black	2.0
VDE-2 / BK / 300	Black	3.0
VDE-2 / WH / 200	White	2.0
VDE-2 / WH / 300	White	3.0
VDE-2 / TR / 200	Transparent	2.0
VDE-2 / TR / 300	Transparent	3.0



VDE-3

VDE 2-pin Plug With Ground Cordset

- Description: 2 round-pin plug with 1 hold earth
- Cable: Round 3-core cable (H03VV-F 3Gx0.75mm²)
- Country: Europe
- Rating: 16A - 250V
- Standard: VDE 0281
- Color: Black, White
- Mark:



MODEL NO	COLOR	LENGTH (m.)
VDE-3 / BK / 200	Black	2.0
VDE-3 / BK / 300	Black	3.0
VDE-3 / WH / 200	White	2.0
VDE-3 / WH / 300	White	3.0



UK-2

UK 3-pin Plug With Cordset

- Description: 3 UK-pin plug
- Cable: Flat 2-core cable (H03VVH2-F 2x0.75mm²)
- Country: England
- Rating: 13A - 250V (Fuse 3A)
- Standard: BS 1363, KM 7079
- Color: Black, White
- Mark:



MODEL NO	COLOR	LENGTH (m.)
UK-2 / BK / 200	Black	2.0
UK-2 / BK / 300	Black	3.0
UK-2 / WH / 200	White	2.0
UK-2 / WH / 300	White	3.0



UK-3

UK 3-pin Plug With Ground Cordset

- Description: 3 UK-pin plug
- Cable: Round 3-core cable (H03VV-F 3Gx0.75mm²)
- Country: England
- Rating: 13A - 250V (Fuse 3A)
- Standard: BS 1363, KM 7079
- Color: Black, White
- Mark:




MODEL NO	COLOR	LENGTH (m.)
UK-3 / BK / 200	Black	2.0
UK-3 / BK / 300	Black	3.0
UK-3 / WH / 200	White	2.0
UK-3 / WH / 300	White	3.0

US-2

US 2-pin Polarized Plug With Cordset



- **Description:** Flat 2-core with one polarize plug
- **Cable:** Flat 2-core cable (SPT-2 AWG18)
- **Country:** United States
- **Rating:** 13A - 125V
- **Standard:** UL
- **Color:** Black, White, Transparent
- **Mark:** 

MODEL NO	COLOR	LENGTH (m.)
US-2 / BK / 200	Black	2.0
US-2 / BK / 300	Black	3.0
US-2 / WH / 200	White	2.0
US-2 / WH / 300	White	3.0
US-2 / TR / 200	Transparent	2.0
US-2 / TR / 300	Transparent	3.0

US-3

US 3-pin Plug With Ground Cordset



- **Description:** Flat 2-core with ground
- **Cable:** Flat 2-core cable (SPT-2 AWG18)
- **Country:** United States
- **Rating:** 13A - 125V
- **Standard:** UL
- **Color:** Black, White
- **Mark:** 

MODEL NO	COLOR	LENGTH (m.)
US-3 / BK / 200	Black	2.0
US-3 / BK / 300	Black	3.0
US-3 / WH / 200	White	2.0
US-3 / WH / 300	White	3.0

AUS-2

Australia 2-pin Plug With Cordset



- **Description:** 2 AUS-pin plug
- **Cable:** Flat 2-core cable (H03VVH2-F 2x0.75mm²)
- **Country:** Australis, New Zealand
- **Rating:** 7.5A - 250V
- **Standard:** AS / NZS 3112
- **Color:** Black, White
- **Mark:** 

MODEL NO	COLOR	LENGTH (m.)
AUS-2 / BK / 200	Black	2.0
AUS-2 / BK / 300	Black	3.0
AUS-2 / WH / 200	White	2.0
AUS-2 / WH / 300	White	3.0

AUS-3

Australia 3-pin Plug With Ground Cordset




- **Description:** 3 AUS-pin plug
- **Cable:** Round 3-core cable (H03VV-F 3Gx0.75mm²)
- **Country:** Australis, New Zealand
- **Rating:** 7.5A-250V
- **Standard:** AS / NZS 3112
- **Color:** Black, White
- **Mark:** 

MODEL NO	COLOR	LENGTH (m.)
AUS-3 / BK / 200	Black	2.0
AUS-3 / BK / 300	Black	3.0
AUS-3 / WH / 200	White	2.0
AUS-3 / WH / 300	White	3.0



JP-2

Japan 2-pin Plug With Cordset

- **Description:** Flat 2-core plug
- **Cable:** Flat 2-core cable (VFF 2x0.75mm²)
- **Country:** Japan
- **Rating:** 10A - 125V
- **Standard:** T-Mark
- **Color:** Black, White
- **Mark:** 

MODEL NO	COLOR	LENGTH (m.)
JP-2 / BK / 200	Black	2.0
JP-2 / BK / 300	Black	3.0
JP-2 / WH / 200	White	2.0
JP-2 / WH / 300	White	3.0

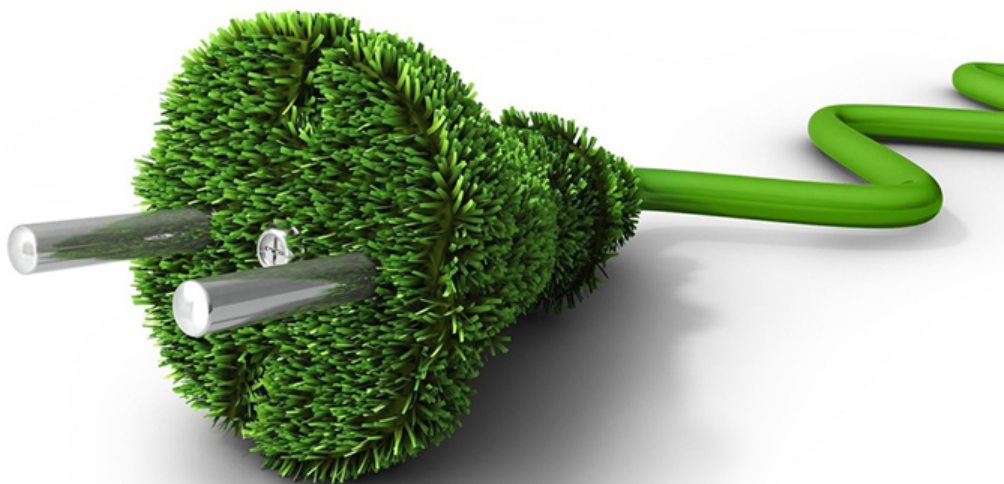


TH-2

Thai 2-pin Plug With Cordset

- **Description:** Flat 2-core plug
- **Cable:** Flat 2-core cable (VFF 2x0.75mm²)
- **Country:** Thailand
- **Rating:** 10A - 250V
- **Standard:** TISI
- **Color:** Black
- **Mark:** 

MODEL NO	COLOR	LENGTH (m.)
TH-2 / BK / 200	Black	2.0
TH-2 / BK / 300	Black	3.0



22



Line Switches

SECO provides several types of line switches that are suitable for several usages. We offers hand switches, foot switches, and dimmer switches that accordance to several standards worldwide.



SW-303

European Standard Switch

- Country: Europe
- Dimension: L:61.0 x W:26.8 x H:17.9mm
- Cable: Flat 2-core cable (H03VVH2-F 2x0.75mm²)
- Rating: 2A - 250V
- Standard: ENEC 61058, VDE 0630
- Color: Black, White
- Mark:



MODEL NO	COLOR
SW-303 / BK	Black
SW-303 / WH	White



SW-304

Universal Standard Switch

- Country: Europe, United States, Canada, Japan, China
- Dimension: L:61.0 x W:26.8 x H:17.9mm
- Cable: Flat 2-core cable (SPT-1/2)
- Rating: 2A - 250V
- Standard: ENEC 61058, VDE 0630
- Color: Black, White
- Mark:



MODEL NO	COLOR
SW-304 / BK	Black
SW-304 / WH	White



SW-305

UL Standard Switch

- Country: United States, Canada
- Dimension: L:59.0 x W:23.0 x H:19.5mm
- Cable: Flat 2-core cable (SPT-1/2)
- Rating: 2A - 250V
- Standard: UL 1054
- Color: Black, White, Transparent
- Mark:



MODEL NO	COLOR
SW-305 / BK	Black
SW-305 / WH	White
SW-305 / TR	Transparent



SW-475

UL Standard Switch

- Country: United States, Canada
- Dimension: L:55.0 x W:24.0 x H:15.0mm
- Cable: Flat 2-core cable (SPT-1/2)
- Rating: 2A - 125V
- Standard: UL 1054, CSA C22.2
- Color: Black, White
- Mark:



MODEL NO	COLOR
SW-475 / BK	Black
SW-475 / WH	White

SW-436

European and Australian Standard Switch



- Country: Europe, Australia, New Zealand
- Dimension: L:58.1 x W:24.6 x H:17.5mm
- Cable: Flat 2-core cable (H03VVH2-F 2x0.75mm²)
- Rating: 2[2]A - 250V
- Standard: EN 61058, AS 3127
- Color: Black, White
- Mark:



MODEL NO	COLOR
SW-436 / BK	Black
SW-436 / WH	White

SW-439

European and Australian Standard Switch



- Country: Europe, Australia, New Zealand
- Dimension: L:58.1 x W:24.6 x H:17.5mm
- Cable: Round 3-core cable (H03VV-F 3Gx0.75mm²)
- Rating: 2[2]A - 250V
- Standard: EN 61058, AS 3127
- Color: Black, White
- Mark:



MODEL NO	COLOR
SW-439 / BK	Black
SW-439 / WH	White

KS-32

Japanese Standard Switch



- Country: Japan
- Dimension: L:60.1 x W:23.0 x H:15.0mm
- Cable: Flat 2-core cable (VFF)
- Rating: 3A - 250V, 6A/125V
- Standard: JET
- Color: Black, White, Transparent
- Mark:



MODEL NO	COLOR
KS-32 / BK	Black
KS-32 / WH	White
KS-32 / TR	Transparent

KS-30

US Standard Switch



- Country: United States, Canada
- Dimension: L:35.0 x W:21.4 x H:15.4mm
- Cable: Flat 2-core cable (SPT-1)
- Rating: 3A - 250V, 6A/125V
- Standard: E214722, LR64464
- Color: Black, White
- Mark:



MODEL NO	COLOR
KS-30 / BK	Black
KS-30 / WH	White



SW-555

US Standard Foot Switch

- Country: United States, Canada
- Dimension: D:25.0mm (Button), D:60.5mm (body)
- Cable: Flat 2-core cable (SPT-2)
- Rating: 3A - 250V, 6A/125V
- Standard: UL 1054, CSA C22.2
- Color: Black, White
- Mark:



MODEL NO	COLOR
SW-555 / BK	Black
SW-555 / WH	White



SW-565

European and Japanese Foot Switch

- Country: United States, Canada
- Dimension: D:31.0mm (Button), D:50mm (body)
- Cable: Flat 2-core cable or Round 2 or 3 core cable
- Rating: 2[2]A - 250V
- Standard: EN 61058
- Color: Black, White
- Mark:



MODEL NO	COLOR
SW-565 / BK	Black
SW-565 / WH	White



SW-317

Universal Foot Switch

- Country: Europe, United States, Canada, China
- Dimension: D:25.0mm (Button), D:70mm (body)
- Cable: Flat 2-core cable or Round 2 or 3 core cable
- Rating: 6A - 125V, 3A - 250V
- Standard: UL 1054, CSA C22.2
- Color: Black, Transparent
- Mark:



MODEL NO	COLOR
SW-317 / BK	Black
SW-317 / TR	Transparent



ZE-04

US Dimmer Hand Switch

- Country: United States, Canada
- Dimension: L:68.0 x W:36.0 x H:32.5mm.
- Cable: SPI-1/2
- Rating: 120V/240V (200W max.)
- Standard: E136609
- Color: Black
- Mark:



MODEL NO	COLOR
ZE-04 / BK	Black

23

Lamps & Gear

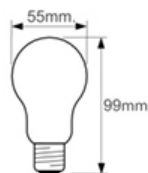
SECO, as OEM partner of PHILIPS, provides all ranges of PHILIPS's products such as lamp, control gears, modules, etc. Please contact us for more information on PHILIPS's products.



GLS

Pear-Shaped Incandescent Lamps

- Clear or frosted lamps sparkling
- Excellent color rendering (Ra = 100)
- 1000hrs Life hours
- Color Temperature 2,700K
- E27 Lamp holder
- Dimmable when using with Dimmable switch



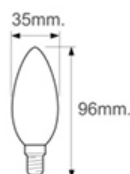
MODEL NO	WATT	Luminous Flux (lm)
GLS-CL-E27-25	25w.	230
GLS-CL-E27-40	40w.	430
GLS-CL-E27-60	60w.	730
GLS-CL-E27-100	100w.	1,380



Candle

Candle-Shaped Incandescent Lamps

- Clear or frosted lamps sparkling
- Excellent color rendering (Ra = 100)
- 1000hrs Life hours
- Color Temperature 2,700K
- E14 Lamp holder
- Dimmable when using with Dimmable switch



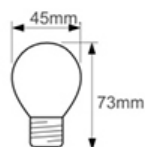
MODEL NO	WATT	Luminous Flux (lm)
CAN-CL-E14-25	25w.	215
CAN-CL-E14-40	40w.	415
CAN-FR-E14-25	25w.	215
CAN-FR-E14-40	40w.	415



Lustre

Spherical Incandescent Lamps

- Clear or frosted lamps sparkling
- Excellent color rendering (Ra = 100)
- 1000hrs Life hours
- Color Temperature 2,700K
- E27 Lamp holder
- Dimmable when using with Dimmable switch



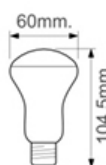
MODEL NO	WATT	Luminous Flux (lm)
LUS-CL-E27-25	25w.	205
LUS-CL-E27-40	40w.	395
LUS-FR-E27-25	25w.	205
LUS-FR-E27-40	40w.	395



Superlux

Mushroom-Shaped Incandescent Lamps

- Up to 35% more light
- Frosted lamps sparkling
- Excellent color rendering (Ra = 100)
- 1000hrs Life hours
- Color Temperature 2,700K
- E27 Lamp holder
- Dimmable when using with Dimmable switch



MODEL NO	WATT	Luminous Flux (lm)
SPL-FR-E27-25	25w.	215
SPL-FR-E27-40	40w.	400
SPL-FR-E27-60	60w.	670
SPL-FR-E27-100	100w.	1280



PAR38

Conventional Reflector Lamps

- Excellent color rendering (Ra = 100)
- 2000hrs Life hours
- Color Temperature 2,700K
- E27 Lamp holder
- Available in flood (FL) 30° or spot (SP) 12° light distribution



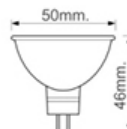
MODEL NO	WATT	Luminous Flux (lm)
PAR38-SP-E27-80	80w.	-
PAR38-FL-E27-80	80w.	-
PAR38-SP-E27-120	120w.	1150
PAR38-FL-E27-120	120w.	1150

MR16

Conventional MR16 Essential Lamp



- Low-voltage operation with 12V supply
- Excellent color rendering (Ra = 100)
- 2000hrs Life hours
- Color Temperature 3,000K
- GU5.3 Lamp holder
- 36° degree of light distribution
- Available with (O) or without (C) front glass
- Use with transformer
- Dimmable when using with Dimmable switch



MODEL NO	WATT	Light Out-put (cd)
MR16-ESS-O-G53-20	20w.	510
MR16-ESS-O-G53-50	50w.	1500
MR16-ESS-C-G53-20	20w.	480
MR16-ESS-C-G53-35	35w.	1000
MR16-ESS-C-G53-50	50w.	1450

GU10

Conventional GU10 Essential Lamp



- High-voltage operation at 230V
- Excellent color rendering (Ra = 100)
- 2000hrs Life hours
- Color Temperature 3,000K
- GU10 Lamp holder
- 40° degree of light distribution
- With front glass
- Dimmable when using with Dimmable switch



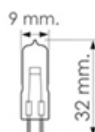
MODEL NO	WATT	Luminous Flux (lm)
GU10-ESS-C-35	35w.	400
GU10-ESS-C-50	50w.	650

Halogen Capsule

Halogen Capsule Lamp



- Low-voltage operation with 12V supply
- Excellent color rendering (Ra = 100)
- 2000hrs Life hours
- Color Temperature 3,000K
- G4 lamp holder for 10w and 20w and GY6.35 for 50w.
- Use with transformer
- Dimmable when using with Dimmable switch



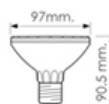
MODEL NO	WATT	Luminous Flux (lm)
CAP-ESS-G4-10	10w.	100
CAP-ESS-G4-20	20w.	250
CAP-ESS-GY6.35-50	50w.	700

PAR HalogenA

Halogen PAR Lamp



- Excellent color rendering (Ra = 100)
- 2000hrs Life hours
- Color Temperature 2,700K
- E27 Lamp holder
- Available in flood (FL) 30° or spot (SP) 12° light distribution



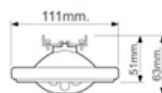
MODEL NO	WATT	Light Out-put (cd)
PAR20-HAL-25-E27-50	50w.	850
PAR30-HAL-10-E27-75	75w.	5525
PAR30-HAL-30-E27-75	75w.	1700
PAR38-HAL-30-E27-100	120w.	2550

QR111

Halogen Aluline QR111 Lamp



- Low-voltage operation with 12V supply
- Excellent color rendering (Ra = 100)
- 3000hrs Life hours
- Color Temperature 3,000K
- GU5.3 Lamp holder
- Available with spot (SP) 8° or flood (FL) 24° light distribution
- Use with transformer
- Dimmable when using with Dimmable switch



MODEL NO	WATT	Light Out-put (cd)
QR111-SP-G53-50	50w.	23000
QR111-FL-G53-50	50w.	4000
QR111-SP-G53-75	75w.	30000
QR111-FL-G53-75	75w.	5300
QR111-SP-G53-100	100w.	48000
QR111-FL-G53-100	100w.	8500

Double End

Halogen Double End Line Lamp



- High-voltage operation at 230V
- Excellent color rendering (Ra = 100)
- 2000hrs Life hours
- Color Temperature 2,900K
- R7x Lamp holder
- With front glass
- Ideal for floodlighting construction sites, buildings, outdoor bars. etc



TYPE	A
100w, 150w	78.3
200w, 300w	117.6
500w	117.6
1000w	189.1
1500w	254.1

MODEL NO	WATT	Luminous Flux (lm)
PSL-C-R7s-100	100w.	1550
PSL-C-R7s-150	150w.	2400
PSL-S-R7s-200	200w.	3000
PSL-S-R7s-300	300w.	5600
PSL-S-R7s-500	500w.	9900
PSL-L-R7s-1000	1000w.	24200
PSL-L-R7s-1500	1500w.	36300

Transformer

Transformer for Low-Voltage Halogen



- One universal driver 220-24-V, 50/60Hz
- Overload, short circuit & overheating protection
- Quick ignition time (<0.8s)
- Long life time (30,000 hours @ Tc=65° with 90% survival)
- >0.98 Power Factor
- Screw Connector

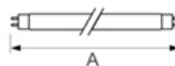
MODEL NO	WATT
ET-S-60	20-60
ET-S-105	35-105
ET-S-150	50-105
ET-C-60	20-60

T8 TL-D

Fluorescent T8 TL-D Lamp



- Diameter 26 mm.
- 13,000hrs Life hours
- Color Temperature available in 2 options: 4100K, 6200K
- G13 Lamp holder
- High Color Rendering (Ra) = 63 for 4100K and (Ra) = 72 for 6300K



TYPE	A
TL-D 18w	604
TL-D 36w	1213.6
TL-D 58w	1514.2

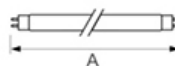
MODEL NO	WATT	Luminous Flux (lm)
TLD-640-G13-18	18w.	1150
TLD-765-G13-18	18w.	1030
TLD-640-G13-36	36w.	2850
TLD-765-G13-36	36w.	2600
TLD-640-G13-58	58w.	4600
TLD-765-G13-58	58w.	4000

T8 Super TL-D

Fluorescent T8 Super TL-D Lamp



- Diameter 26 mm.
- 15,000hrs Life hours
- Color Temperature available in 3 options: 3000K, 4000K, 6500K
- G13 Lamp holder
- High Color Rendering (Ra) = 85



TYPE	A
STL-D 18w	604
STL-D 36w	1213.6

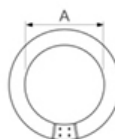
MODEL NO	WATT	Luminous Flux (lm)
STLD-830-G13-18	18w.	1350
STLD-840-G13-18	18w.	1350
STLD-865-G13-18	18w.	1300
STLD-830-G13-36	36w.	3350
STLD-840-G13-36	36w.	3350
STLD-865-G13-36	36w.	3250

T8 TL-E

Circular Fluorescent T8 TLD Lamp



- Diameter 28mm.
- 8,000hrs Life hours
- Color Temperature available in 2 options: 4100K, 6200K
- G10q Lamp holder
- High Color Rendering (Ra) = 72



TYPE	A
TL-E 22w	199
TL-E 30w	209
TL-E 32w	288
TL-E 40w	390

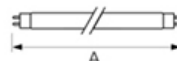
MODEL NO	WATT	Luminous Flux (lm)
TLE-765-G10q-22	22w.	1050
TLE-765-G10q-30	30w.	1410
TLE-640-G10q-32	32w.	2050
TLE-765-G10q-32	32w.	1810
TLE-765-G10q-40	40w.	2470

T5 Essential

Fluorescent T5 Essential Lamp



- Diameter 17 mm.
- 20,000hrs Life hours
- Color Temperature available in 3 options: 3000K, 4000K, 6500K
- G5 Lamp holder
- Color Rendering (Ra) = 82
- Use with electronic ballast only



TYPE	A
TL-5 14w	545
TL-5 21w	845
TL-5 28w	1140

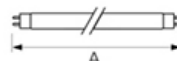
MODEL NO	WATT	Luminous Flux (lm)
TL5-ESS-830-G5-14	14w.	1350
TL5-ESS-840-G5-14	14w.	1350
TL5-ESS-865-G5-14	14w.	1260
TL5-ESS-830-G5-21	21w.	2100
TL5-ESS-840-G5-21	21w.	2100
TL5-ESS-865-G5-21	21w.	1900
TL5-ESS-830-G5-28	28w.	2900
TL5-ESS-840-G5-28	28w.	2900
TL5-ESS-865-G5-28	28w.	2700

T5 Master HE

Fluorescent T5 Master Lamp



- Diameter 17 mm.
- 24,000hrs Life hours
- Color Temperature available in 3 options: 3000K, 4000K, 6500K
- G5 Lamp holder
- Color Rendering (Ra) = 85
- Use with electronic ballast only



TYPE	A
TL-5 14w	545
TL-5 21w	845
TL-5 28w	1140
TL-5 35w	845
TL-5 54w	1140

MODEL NO	WATT	Luminous Flux (lm)
TL5-MAS-830-G5-14	14w.	1350
TL5-MAS-840-G5-14	14w.	1350
TL5-MAS-865-G5-14	14w.	1260
TL5-MAS-830-G5-21	21w.	2100
TL5-MAS-840-G5-21	21w.	2100
TL5-MAS-865-G5-21	21w.	1900
TL5-MAS-830-G5-28	28w.	2900
TL5-MAS-840-G5-28	28w.	2900
TL5-MAS-865-G5-28	28w.	2700
TL5-MAS-830-G5-35	35w.	3650
TL5-MAS-840-G5-35	35w.	3650
TL5-MAS-865-G5-35	35w.	3400
TL5-MAS-830-G5-54	54w.	5000
TL5-MAS-840-G5-54	54w.	5000
TL5-MAS-865-G5-54	54w.	4750





PLS

Compact Fluorescent PLS

- 16% improve on lumen maintenance
- 8,000hrs Life hours
- Color Temperature available in 3 options: 2700K, 4000K, 6500K
- G23 Lamp holder
- High Color Rendering (Ra) = 82
- Built-in starter and must use with ballast



TYPE	AxB
7w	28x135
9w	28x167
11w	28x236

MODEL NO	WATT	Luminous Flux (lm)
PLS-827-G23-7	7w.	400
PLS-840-G23-7	7w.	400
PLS-865-G23-7	7w.	400
PLS-827-G23-9	9w.	600
PLS-840-G23-9	9w.	600
PLS-865-G23-9	9w.	600
PLS-827-G23-11	11w.	900
PLS-840-G23-11	11w.	900
PLS-865-G23-11	11w.	900



PLC

Compact Fluorescent PLC

- 12% improve on lumen maintenance
- 10,000hrs Life hours
- Color Temperature available in 3 options: 2700K, 4000K, 6500K
- G24 Lamp holder
- High Color Rendering (Ra) >80
- Built-in starter and must use with ballast



TYPE	AxB
10w.	28x118
13w.	28x140
18w.	28x152
26w.	28x173

MODEL NO	WATT	Luminous Flux (lm)
PLC-827-G241-2P-10	10w.	600
PLC-840-G241-2P-10	10w.	600
PLC-865-G241-2P-10	10w.	600
PLC-827-G241-2P-13	13w.	900
PLC-840-G241-2P-13	13w.	900
PLC-865-G241-2P-13	13w.	900
PLC-827-G242-2P-18	18w.	1200
PLC-840-G242-2P-18	18w.	1200
PLC-865-G242-2P-18	18w.	1200
PLC-827-G243-2P-26	26w.	1800
PLC-840-G243-2P-26	26w.	1800
PLC-865-G243-2P-26	26w.	1800

PLL

Compact Fluorescent PLL

- 80% Energy Saving more than conventional lamps
- 15,000hrs Life hours
- Color Temperature available in 3 options: 3000K, 4000K, 6500K
- 2G11 Lamp holder
- High Color Rendering (Ra) > 80



TYPE	AxB
18w	38x227
36w	38x417

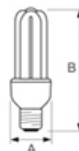
MODEL NO	WATT	Luminous Flux (lm)
PLL-830-2G11-4P-18	18w.	1200
PLL-840-2G11-4P-18	18w.	1200
PLL-865-2G11-4P-18	18w.	1200
PLL-830-2G11-4P-36	36w.	2900
PLL-840-2G11-4P-36	36w.	2900
PLL-865-2G11-4P-36	36w.	2900



Essential

Compact Fluorescent Essential

- 80% Energy Saving more than conventional lamps
- 8,000hrs Life hours
- Color Temperature available in 2 options: 2700K, 6500K
- E27 Lamp holder
- High Color Rendering (Ra) = 82 for 2700K and (Ra) = 80 for 6500K



TYPE	AxB
5w	44x125
8w	44x140
11w	44x155
14w	44x170
18w	52x165
23w	52x175

MODEL NO	WATT	Luminous Flux (lm)
ESS-WW-E27-5	5w.	275
ESS-CD-E27-5	5w.	260
ESS-WW-E27-8	8w.	460
ESS-CD-E27-8	8w.	440
ESS-WW-E27-11	11w.	650
ESS-CD-E27-11	11w.	620
ESS-WW-E27-14	14w.	860
ESS-CD-E27-14	14w.	820
ESS-WW-E27-18	18w.	1170
ESS-CD-E27-18	18w.	1100
ESS-WW-E27-23	23w.	1460
ESS-CD-E27-23	23w.	1420



Genie

Compact Fluorescent Genie

- 80% Energy Saving more than conventional lamps
- 8,000hrs Life hours
- Color Temperature available in 3 options: 2700K, 4100K, 6500K
- E27 Lamp holder
- High Color Rendering (Ra) = 82 for 2700K and (Ra) = 80 for 4100K and 6500K



TYPE	AxB
5w.	37x105
8w.	44x105
11w.	44x115
14w.	44x130
18w.	48x133

MODEL NO	WATT	Luminous Flux (lm)
GENIE-WW-E27-5	5w.	250
GENIE-CW-E27-5	5w.	235
GENIE-CD-E27-5	5w.	235
GENIE-WW-E27-8	8w.	440
GENIE-CW-E27-8	8w.	415
GENIE-CD-E27-8	8w.	415
GENIE-WW-E27-11	11w.	610
GENIE-CW-E27-11	11w.	600
GENIE-CD-E27-11	11w.	600
GENIE-WW-E27-14	14w.	840
GENIE-CW-E27-14	14w.	790
GENIE-CD-E27-14	14w.	790
GENIE-WW-E27-18	18w.	1100
GENIE-CW-E27-18	18w.	1040
GENIE-CD-E27-18	18w.	1040



Tornado

Compact Fluorescent Tornado

- 80% Energy Saving more than conventional lamps
- 8,000hrs Life hours
- Color Temperature available in 3 options: 2700K, 6500K
- E27 Lamp holder
- High Color Rendering (Ra) = 82



TYPE	AxB
5w	45x76
8w	45x83
11w	45x90
14w	50x104
18w	55x108
24w	60x115

MODEL NO	WATT	Luminous Flux (lm)
TND-WW-E27-5	5w.	300
TND-CD-E27-5	5w.	280
TND-WW-E27-8	8w.	500
TND-CD-E27-8	8w.	460
TND-WW-E27-12	12w.	725
TND-CD-E27-12	12w.	690
TND-WW-E27-15	15w.	950
TND-CD-E27-15	15w.	900
TND-WW-E27-20	20w.	1350
TND-CD-E27-20	20w.	1250
TND-WW-E27-24	24w.	1550
TND-CD-E27-24	24w.	1450

Mercury - ML

HID Mercury Lamp



- 10,000hrs Life hours
- 220-230 Voltage
- E27 Lamp holder
- Non-dimmable
- Color Rendering (Ra) = 65
- Built-in ballast



TYPE	AxB
160w	75x168
250w	90x211
500w	120x282

MODEL NO	WATT	Luminous Flux (lm)
E27 lamp holder		
ML-E27-160	160w.	3000
ML-E27-250	250w.	3400
E40 lamp holder		
ML-E40-250	250w.	5500
ML-E40-500	500w.	13000

Mercury - HPL-N

HID Mercury Lamp



- 20,000hrs Life hours for E27 lamp holder and 15,000 for E40 lamp holder
- 220-230 Voltage
- E27, E40 Lamp holder
- Color Rendering (Ra) = 45
- Use with BHL ballast (no ignitor needed)



TYPE	AxB
80w	71x135
125w	76x171.5
250w	91x228
400w	121.5x290
1000w	166.5x299

MODEL NO	WATT	Luminous Flux (lm)
E27 lamp holder		
HPL-N-E27-80	80w.	4200
HPL-N-E27-125	125w.	4100
E40 lamp holder		
HPL-N-E40-250	250w.	4100
HPL-N-E40-400	400w.	3900
NPL-N-E40-1000	1000w.	3900



SON

HID High Pressure Sodium Lamp



- 28,000hrs Life hours
- Color Temperature = 2000K
- E27, E40 Lamp holder
- Color Rendering (Ra) = 25
- SON 70w is built-in ignitor
- Use with BSN ballast



TYPE	AxB
70w	77x56
150w	91x227
250w	91x227
400w	122x290

MODEL NO	WATT	Luminous Flux (lm)
SON-E27-70	70w.	5600
SON-E40-150	150w.	14500
SON-E40-250	250w.	27000
SON-E40-400	400w.	31000

SON-T

HID Tubular High Pressure Sodium Lamp

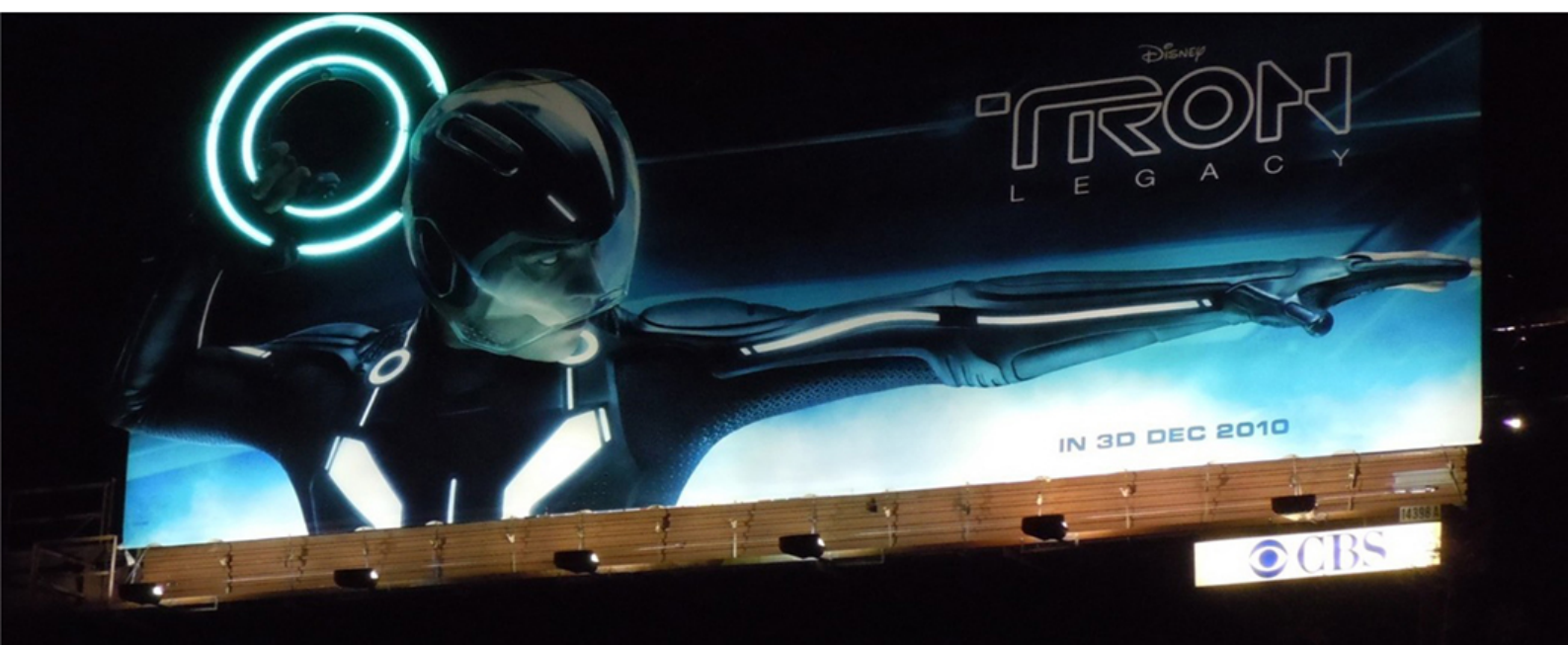


- 28,000hrs Life hours
- Color Temperature = 2000K
- E27, E40 Lamp holder
- Color Rendering (Ra) = 25
- Use with BSN ballast



TYPE	AxB
70w	32x156
150w	47x211
250w	47x257
400w	47x283
1000w	122x290

MODEL NO	WATT	Luminous Flux (lm)
SON-T-E27-70	70w.	6000
SON-T-E40-150	150w.	15000
SON-T-E40-250	250w.	28000
SON-T-E40-400	400w.	48000
SON-T-E40-1000	1000w.	130000



HPI

HID Metal Halide Lamp



- 20,000hrs Life hours
- Color Temperature =
(BU) 4500K with BHL ballast
(BU) 4000K with BSN ballast
(SLV) 6700K with BHL ballast
(SLV) 5400K with BSN ballast
- E40 Lamp holder
- Color Rendering (Ra) = 69
- Use with BSN or BHL ballast



TYPE	AxB
250w	91x226
400w	122x290

MODEL NO	WATT	Luminous Flux (lm)
With BHL Ballast		
HPI-PLUS-E40-BU-250	250w	18000
HPI-PLUS-E40-SLV-250	250w	18000
HPI-PLUS-E40-BU-400	400w	35000
HPI-PLUS-E40-SLV-400	400w	35000
With BSN Ballast		
HPI-PLUS-E40-BU-250	250w	25500
HPI-PLUS-E40-SLV-250	250w	25500
HPI-PLUS-E40-BU-400	400w	42500
HPI-PLUS-E40-SLV-400	400w	42500

HPI-T

HID Metal Halide Tubular Lamp



- 20,000hrs Life hours
- Color Temperature = 4500K
- E40 Lamp holder
- Color Rendering (Ra) = 65
- Use with BSN or BHL ballast



TYPE	AxB
250w	47x257
400w	47x386
1000w	66x382
2000w	102x430

MODEL NO	WATT	Luminous Flux (lm)
With BHL Ballast		
HPI-T-E40-SLV-250	250w.	19000
HPI-T-E40-SLV-400	400w.	35000
HPI-T-E40-863-1000	1000w.	85000
HPI-T-E40-646-2000	2000w.	189000
HPI-T-E40-642-2000	2000w.	200000
With BSN Ballast		
HPI-T-E40-SLV-250	250w.	23000
HPI-T-E40-SLV-400	400w.	38000

MHN-TD

HID Metal Halide Lamp



- 9,000hrs Life hours
- Color Temperature = 4500K
- Rx7x Double-end Lamp holder
- Color Temperature available in 3 options:
3000K, 4200K, 5200K
- High Color Rendering (Ra) = 70-85
- Use with ballast
BSN + Ignitor SN58 for 150w, 250w lamp
BMH + Ignitor SN58 for 70w lamp



TYPE	AxB
70w	115x20
150w	115x20

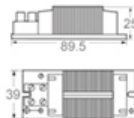
MODEL NO	WATT	Luminous Flux (lm)
MHN-TD-Rx7s-730-70	70w.	6200
MHN-TD-Rx7s-842-70	70w.	5700
MHN-TD-Rx7s-852-70	70w.	5000
MHN-TD-Rx7s-730-150	150w.	13800
MHN-TD-Rx7s-842-150	150w.	12900
MHN-TD-Rx7s-852-150	150w.	11000

BPL

Magnetic Ballast for Compact Fluorescent



- Magnetic ballast for compact fluorescent (PL-S, PL-C)
- 220 Volt, 50 Hz for switch-start
- $T_w = 130^{\circ}\text{C}$



MODEL NO	WATT	Loss (Watt)
BPL 10L04	PL-S 7,9,11w / 2P	5
BPL 13L04	PL-C 10,13w/2P	4
BPL 18L04	PL-C 18w/2P	6

BTA

Magnetic Ballast for T8 Fluorescent Lamps



- Magnetic ballast for T8 fluorescent lamp 18, 32, 36, and 58w.
- 220 Volt, 50 Hz for switch-start
- $T_w = 130^{\circ}\text{C}$



MODEL NO	WATT	Loss (Watt)
BTA 18L04	TLD 18w	8
BTA 18L04 P	TLD 18w	8
BTA 36L04	TLD 36w	8.5
BTA 36L04 P	TLD 36w	8.5
BTA 32L04	TLE 32w	8.5
BTA 58L04	TLD 58w	12

BTA-LW

Low Loss Magnetic Ballast for T8 Fluorescent Lamps



- Low loss magnetic ballast
- For T8 fluorescent lamp 18 and 36w
- 220 Volt, 50 Hz for switch-start
- $T_w = 130^{\circ}\text{C}$



MODEL NO	WATT	Loss (Watt)
BTA 18L04 LW	TLD 18w	5.7
BTA 18L04 LW	TLD 36w	5.5

S2, S10 Starter

Starter for T8 Fluorescent Lamp S2, S10



- Switch Starter
- Using with T8 fluorescent lamp
- $-20^{\circ}\text{C} - 80^{\circ}\text{C}$ working temperature
- 220-240 Voltage



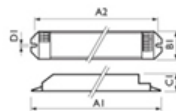
MODEL NO	WATT	Use With
S2	4-22	1lamp / 2lamp
S10	4-65	1lamp

EB-Certalume

Electronic Ballast for Fluorescent Lamp



- Electronic ballast for fluorescent lamp 18, 36w. 1 or 2 lamps
- 30% saving energy more than magnetic ballast
- 25,000hrs Life hours



TYPE	AxBxC
118	150x40x28
218	150x40x28
136	150x40x28
236	210x40x30

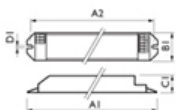
MODEL NO	WATT	Qty of lamp	Power Factor (PF)
EB-C 118 TLD	18w.	1	>0.95
EB-C 218 TLD	18w.	2	>0.95
EB-C 136 TLD	36w.	1	>0.95
EB-C 236 TLD	36w.	2	>0.95

EB-S EasiDim

Electronic Ballast for Fluorescent Lamp

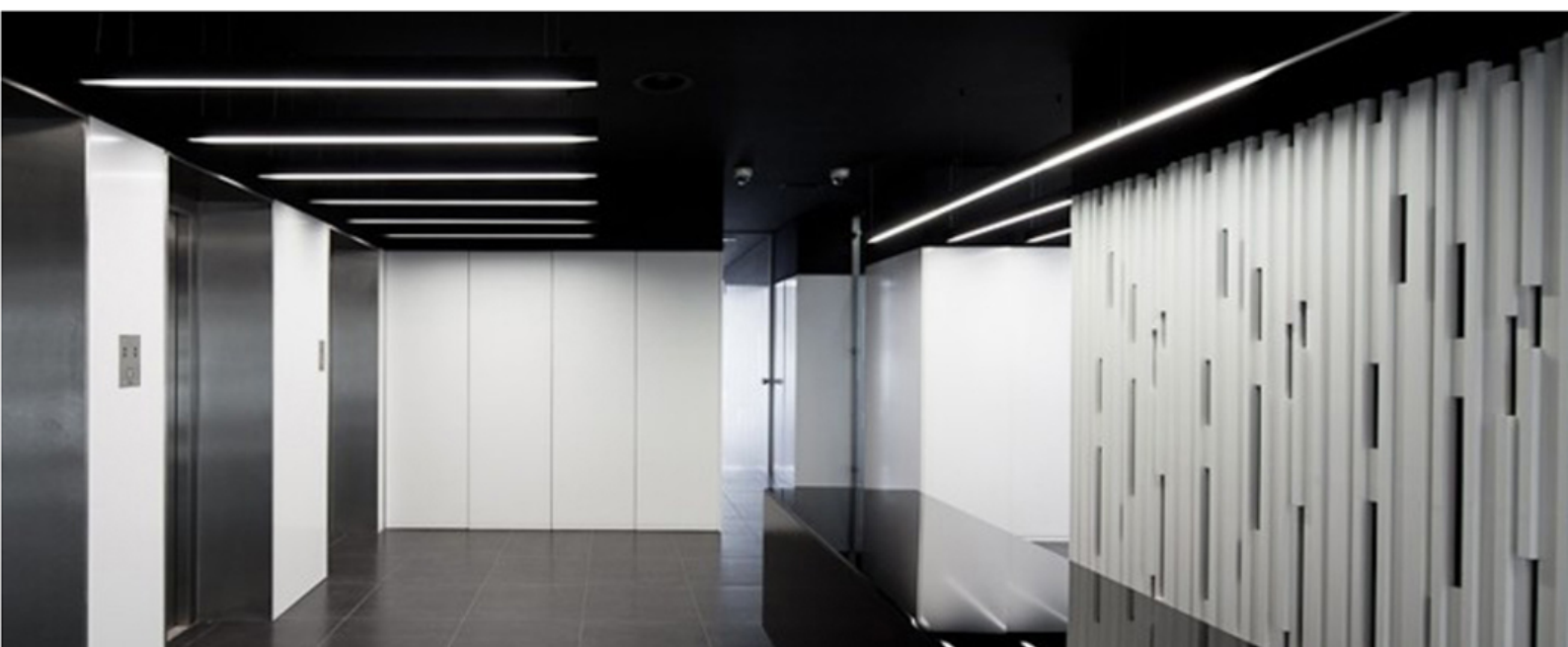


- Electronic ballast for T8 fluorescent lamp 18, 36, 58w for 1 or 2 lamps and T5 fluorescent lamp 14, 28w for 1 or 2 lamps
- Dimmable when using with dimmable switch
- 50,000hrs Life hours
- 30% Energy saving than magnetic ballast



TYPE	AxBxC
114,128	360x30x28
214,228	425x30x28
118,136,158	360x30x28
218,236,258	425x30x28

MODEL NO	WATT	Qty of lamp	Power Factor (PF)
EB-S ED 118 TLD	18w.	1	>0.95
EB-S ED 218 TLD	18w.	2	>0.95
EB-S ED 136 TLD	36w.	1	>0.95
EB-S ED 236 TLD	36w.	2	>0.95
EB-S ED 158 TLD	58w.	1	>0.95
EB-S ED 258 TLD	58w.	2	>0.95
EB-S ED 114 TLD	14w.	1	>0.95
EB-S ED 214 TLD	14w.	2	>0.95
EB-S ED 128 TLD	28w.	1	>0.95
EB-S ED 228 TLD	28w.	2	>0.95

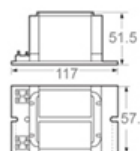


BMH

Magnetic Ballast for HID Lamp



- Magnetic ballast for low wattage metal halide lamps, such as MHN-TD, CDM-TD, CDM-T, MH
- $T_w = 130^{\circ}\text{C}$
- Use with ignitor SN58
- Automatic thermal switch



MODEL NO	LAMP	WATT	Luminous Flux (lx)	IGNOTIR	CAP ($\mu\text{F/V}$)
BMH 35L302ITS	CDM-T 35w/830	38	3300	SN58	6/250
BMH 70L302ITS	MHN-TD 70w	75	5700	SN58	12/250
	CDM-T 70/830	71	6600		
	CDM-T 70/942	72	6600		
	MT 70	72	5600		

BSN

Magnetic Ballast for HID Lamp



- Magnetic ballast for SON and MH lamps
- 30% saving energy more than magnetic ballast
- $T_w = 130^{\circ}\text{C}$



TYPE	AxBxC
BSN 70w	117 x 57.1 x 51.5
BSN 150w	125 x 75.5 x 64.5
BSn 250w	150 x 75.5 x 64.5
BSN 400w L300I	165 x 96.5 x 82

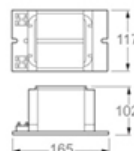
MODEL NO	LAMP	WATT	Luminous Flux (lx)	IGNITOR	CAP ($\mu\text{F/V}$)
BSN 70L300I	SON-T 70w	70	6000	SN57	12/250
BSN 150L300II	SON-T 150w	150	15000	SN58	18/250
	CDM-T 150w/830	147	14000	SN58	18/250
	CDM-T 150w/842	146	12700	SN58	18/250
BSN 250L300I	SON-T 250w	250	28000	SN58	32/250
	SON-PLUS 150w	150	16000	SN58	18/250
	HPI PLUS 400w BUS	454	42500	-	50/250
	MHN-TD 250w	252	20000	SN58	32/250
	SON-T 250w	250	28000	SN58	32/250
	SON-PLUS 150w	150	16000	SN58	18/250
	HPI PLUS 400 BUS	454	42500	-	50/250
	MHN-TD 250w	252	20000	SN58	32/250
	SON-T 400w	392	48000	SN58	50/250
BSN 400L300I	HPI PLUS 250w BU	302	25500	SN58	32/250
	HPI PLUS 400w BU	454	42500	SN58	50/250
	HPI PLUS 400 BUS-P	454	42500	SN58	50/250
	HPI-T PLUS 250w	295	23000	SN58	32/250
	HPI-T PLUS 400w	445	38000	SN58	50/250

BHL

Magnetic Ballast for HID Lamp



- Magnetic ballast for HPL and HPI lamps
- 30% saving energy more than magnetic ballast
- $T_w = 130^\circ\text{C}$



MODEL NO	LAMP	WATT	Luminous Flux (lx)	IGNITOR	CAP ($\mu\text{F/V}$)
BHL 80L200	HPL-N 80w	80	3700	-	8/250
BHL 125L200	HPL-N 125w	125	6200	-	10/250
BHL 1000L202	HPL-N 1000w (230V)	1000	58500	-	30/250 x2
BHL 1000L202	HPI-T 1000w	985	85000	SI52	32/250 x2
BHL 1000L202 x2	HPI-T 2000w (230-240V)	1960	189000	SI52	125/250

Capacitor

Capacitor for HID Lamp circuit



- Correct the power factor of transformers and magnetic ballast in discharge lamps
- Allow for an improvement of the luminaire's power factor to -0.85
- Up to 250v 50H/60Hz $-40^\circ\text{C} \sim 85^\circ\text{C}$



TYPE	AxB
CP 4 MFD	80x25
CP 5 MFD	80x25
CP 6.5 MFD	80x29
CP 8 MFD	90x28
CP 10 MFD	90x29
CP 12 MFD	95x29
CP 18 MFD	120x29
CP 25 MFD	120x34
CP 32 MFD	120x38

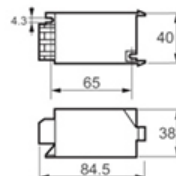
MODEL NO	LAMP	MATERIAL
CP 4 MFD	FL 18w	PLASTIC
CP 5 MFD	FL 36w	PLASTIC
CP 6.5 MFD	CDM 35w	PLASTIC
CP 8 MFD	HPL-N 80w	PLASTIC
CP 10 MFD	HPL-N 125w	PLASTIC
CP 12 MFD	MH 70w, SON 70w	PLASTIC
CP 18 MFD	MH 150w, SON 150w	PLASTIC
	HPL-N 250w, HPI 250w	PLASTIC
CP 25 MFD	HPL-N 400w, HPI400w	PLASTIC
CP 30 MFD x2	HPL-N 1000w	PLASTIC
CP 32 MFD	SON 250w	PLASTIC
CP 32 MFD x2	HPI-T 1000w	PLASTIC
CP 50 MFD	SON 400w	ALUMINIUM

Ignitor

Electronic Ignitor for HID Lamp circuits



- Electronic ignitors for (ceramic discharge) metal halide and high pressure sodium lamps
- Ensure reliable and smooth starting behavior













MODEL NO	LAMP
SN 51 PLUS	HPI 250-1000w
SI 52	HPI 2000w
SN 58	SON 70-400w
	MH 35-150w
SN 58 T5	SON 70-1000w
SN 58 T15	CDM/MH 35-150w














Appendix












Lamp Designation

	CODE	WATT	BASE	COLOR TEMP (K)	LIFE SPAN	CRI	LUMINOUS INTENSITY (cd)	DIMENSION	OSRAM	PHILIPS
Incandescent lamps										
	GLS	40W	E27	2700	1000	100	415 lm	99 mm / ø 55 mm	CLASS A CL 40	354860
	GLS	60 W	E27	2700	1000	100	710 lm	99 mm / ø 55 mm	CLASS A CL 60	354863
	GLS	75 W	E27	2700	1000	100	935 lm	99 mm / ø 55 mm	CLASS A CL 75	354594
	PAR 38	120 W	E27	2700	1000	100	3100 - 9300 cd	136 mm / ø 121 mm	CONCENTRA	PAR 38
	PAR 56	300 W	GX16d	3000	2000	100	10000 cd	127 mm / ø 178 mm	ALU PAR56	PAR 56
Halogen Capsule										
	JC	10 W	G4	3000	2000	100	140 lm	32 mm / ø 9 mm	HALOSTAR	CAPSULELINE
	JC	20 W	G4	3000	2000	100	320 lm	32 mm / ø 9 mm	HALOSTAR	CAPSULELINE
	JC	50 W	GY6.35	3000	2000	100	910 lm	44 mm / ø 12 mm	HALOSTAR	CAPSULELINE
	JC	90 W	GY6.35	3000	2000	100	1800 lm	44 mm / ø 12 mm	HALOSTAR	CAPSULELINE
Halogen Dichroic Reflector (12V)										
	MR 11	20 W	GU4	3000	2000	100	500 - 3200 cd	35 mm / ø 34.5 mm	DECOSTAR 35	ACCENTLINE
	MR 11	35 W	Gx5.3	3000	2000	100	900 - 5000 cd	35 mm / ø 34.5 mm	DECOSTAR 35	ACCENTLINE
	MR 16	35 W	Gx5.3	3000	2000-3000	100	1050 - 6300 cd	46 mm / ø 50 mm	DECOSTAR 51	ACCENTLINE
	MR 16	50 W	Gx5.3	3000	2000-3000	100	1500 - 8200 cd	46 mm / ø 50 mm	DECOSTAR 51	ACCENTLINE
Halogen aluminium reflector (12V)										
	QR 70	50 W	BA15d	3000	3000	100	2600 - 12500 cd		HALOSPOT 70	ALULINE
	QR 111	75 W	G53	3000	3000	100	2000 - 30000 cd	65 mm / ø 111 mm	HALOSPOT 111	ALULINE
	QR 111	100 W	G53	3000	3000	100	2800 - 30000 cd	65 mm / ø 111 mm	HALOSPOT 111	ALULINE
Halogen dichroic PAR (220V)										
	PAR 16	50 W	GU10	2900	2000	100	900 cd	55 mm / ø 50 mm	HALOPAR 16	TWISTLINE ALU
	PAR 20	50 W	E27	2900	2000	100	1000 - 3200 cd	91 mm / ø 64 mm	HALOPAR 20	HALOGENA
	PAR 30	75 W	E27	2900	2000	100	2200 - 7500 cd	90 mm / ø 97 mm	HALO PAR 30	HALOGENA PAR
	PAR 30	100 W	E27	2900	2000	100	3500 - 10000 cd	90 mm / ø 97 mm	HALO PAR 30	HALOGENA PAR
	PAR 38	50 W	E27	2900	2000	100	1200 cd	139 mm / ø 123 mm	HALOPAR 38	HALOGENA
	PAR 38	75 W	E27	2900	2000	100	2400 - 7200 cd	139 mm / ø 123 mm	HALOPAR 38	-
	PAR 38	100 W	E27	2900	2000	100	3100 - 8200 cd	139 mm / ø 123 mm	HALOPAR 38	HALOGENA
Tungsten halogen lamps										
	HAL-DE	100 W	R7s	2900	2000	100	1550 lm	78.3 mm	HALOLINE	PLUSLINE C
	HAL-DE	150 W	R7s	2900	2000	100	2400 lm	78.3 mm	HALOLINE	PLUSLINE C
	HAL-DE	200 W	R7s	2900	2000	100	3000 lm	117.6 mm	HALOLINE	PLUSLINE S
	HAL-DE	300 W	R7s	2900	2000	100	5600 lm	117.6 mm	HALOLINE	PLUSLINE S
	HAL-DE	500 W	R7s	2900	2000	100	9900 lm	117.6 mm	HALOLINE	PLUSLINE S
	HAL-DE	1000 W	R7s	2900	2000	100	24200 lm	189.1 mm	HALOLINE	PLUSLINE L
	HAL-DE	15000 W	R7s	2900	2000	100	36300 lm	254.1 mm	HALOLINE	PLUSLINE L
	HAL	25 W	G9	2900	2000	100	200 lm	43 mm	HALOPIN	Cicline G9
	HAL	40 W	G9	2900	2000	100	460 lm	43 mm	HALOPIN	Cicline G9
	HAL	60 W	G9	2900	2000	100	980 lm	51 mm	HALOPIN	Cicline G9
	HAL-T	40 W	E27	2900	2000	100	1050 lm	67 lm	HALOLUX	-
	HAL-T	60 W	E27	2900	2000	100	1470 lm	67 lm	HALOLUX	-
	HAL-T	70 W	E27	2900	2000	100	2400 lm	86 lm	HALOLUX	-
	HAL-T	100 W	E27	2900	2000	100	4210 lm	86 lm	HALOLUX	-

Lamp Designation

	CODE	WATT	BASE	COLOR TEMP (K)	LIFE SPAN	CRI	LUMINOUS INTENSITY (cd)	DIMENSION	OSRAM	PHILIPS
Metal halide lamps										
	MH-E	70 W	E27	3700 - 4000	10000	65	5300 - 5600 lm	141 mm / ø 56 mm	POWERBALL-TT	CMH
	MH-E	100 W	E27	3700 - 4000	10000	65	8800 - 9000 lm	141 mm / ø 56 mm	POWERBALL-TT	CMH
	MH-E	150 W	E27	3700	10000	65	13500 lm	141 mm / ø 56 mm	POWERBALL-TT	CMH
	MH-E	250 W	E40	4500	20000	69	18000 - 25500 lm	226 mm / ø 91 mm		HPI PLUS BU
	MH-E	400 W	E40	4500	20000	69	35000 - 42500 lm	290 mm / ø 122 mm		HPI PLUS BU
	MH-T	250 W	E40	4500	20000	65	19000 - 23000 lm	257 mm / ø 47 mm		HPI-T PLUS
	MH-T	400 W	E40	4500	20000	65	35000 - 38000 lm	286 mm / ø 47 mm		HPI-T PLUS
	MH-T	1000 W	E40	4300	10000	65	85000 lm	382 mm / ø 66 mm		HPI-T
	MH-T	2000 W	E40	4600	10000	65	189000 lm	430 mm / ø 102 mm		HPI-T
	MH-T	70 W	G12	3000 - 4200	9000	80-89	5800 lm		HQI-T	
	MH-T	150 W	G12	3000 - 4200	9000	80-89	13000 lm		HQI-T	
	MH-DE	70 W	RX7s	3000 - 4200 - 5200	9000	80	5000 - 6200 lm	20 mm x 115 mm	HQI-TS	MHN-TD
	MH-DE	150 W	RX7s	3000 - 4200 - 5200	9000	85	11000 - 13800 lm	20 mm x 115 mm	HQI-TS	MHN-TD
	MH-DE	250 W	FC2	4200	9000	80	20000 lm	27.5 mm x 161.6 mm	HQI-TS	MHN-TD
Metal halide ceramic lamp										
	HIT-T-CE	35 W	G12	3000 - 4200	12000	86	3300 lm	103 mm / ø 20 mm	HCI-T	CDM-T
	HIT-T-CE	70 W	G12	3000 - 4200	12000	92	6600 lm	103 mm / ø 20 mm	HCI-T	CDM-T
	HIT-T-CE	100 W	G12				9500 lm	103 mm / ø 20 mm	HCI-T	-
	HIT-T-CE	150 W	G12	3000 - 4200	12000	96	14000 lm	103 mm / ø 20 mm	HCI-T	CDM-T
	HIT-TC-CE	35 W	G8.5	3000 - 4200	6000	87	3500 lm	85 mm / ø 15 mm	HCI-TC	CDM-TC
	HIT-TC-CE	70 W	G8.5	3000 - 4200	6000	90	6900 lm	85 mm / ø 15 mm	HCI-TC	CDM-TC
	HIT-DE	70 W	Rx7s	3000 - 4200	16000	92	6800 lm	22 mm x 119.63 mm	HCI-TS	CDM-TD
	HIT-DE	150 W	Rx7s-24	3000 - 4200	16000	96	14500 lm	25 mm / 137.43 mm	HCI-TS	CDM-TD
High pressure sodium lamps										
	HST-DE	70 W	Rx7s	2000	28000	25	6800 lm	120 mm	NAV-TS SUPER	-
	HST-DE	150 W	Rx7s	2000	32000	25	15000 lm	138 mm	NAV-TS SUPER	-
	HST-DE	250 W	Fc2	2000	24000	25	25500 lm	206 mm	NAV-TS	-
	HST-DE	400 W	Fc2	2000	24000	25	48000 lm		NAV-TS	-
	HSE-E	70 W	E27	2000	24000	25	5600 lm	56 mm / ø 71 mm	NAV-E	SON
	HSE-E	150 W	E40	2000	28000	25	14500 lm	227 mm / ø 91 mm	NAV-E	SON
	HSE-E	250 W	E40	2000	28000	25	27000 lm	227 mm / ø 91 mm	NAV-E	SON
	HSE-E	400 W	E40	2000	28000	25	31000 lm	290 mm / ø 122 mm	NAV-E	SON
	HST-T	70 W	E27	2000	24000	25	6000 lm	156 mm / ø 32 mm	NAV-T	SON-T
	HST-T	150 W	E40	2000	28000	25	15000 lm	211 mm / ø 47 mm	NAV-T	SON-T
	HST-T	250 W	E40	2000	28000	25	28000 lm	257 mm / ø 47 mm	NAV-T	SON-T
	HST-T	400 W	E40	2000	28000	25	48000 lm	283 mm / ø 47 mm	NAV-T	SON-T
	HST-T	1000 W	E40	2000	16000	25	130000 lm	390 mm / ø 66 mm	NAV-T	SON-T
High pressure mercury lamps										
	MV	80 W	E27	4000	20000	40-50	3800 lm	135 mm / ø 71 mm	HQL DE LUXE	HPL-N
	MV	125 W	E27	4000	20000	40-50	6300 lm	171.5 mm / ø 76 mm	HQL DE LUXE	HPL-N
	MV	250 W	E40	4000	15000	40-50	13000 lm	228 mm / ø 91 mm	HQL DE LUXE	HPL-N
	MV	400 W	E40	4000	15000	40-50	22000 lm	290 mm / ø 121.5 mm	HQL DE LUXE	HPL-N
	MV	1000 W	E40	4000	15000	40-50	58000 lm	399 mm / ø 166.5 mm	HQL DE LUXE	HPL-N

Lamp Designation

	CODE	WATT	BASE	COLOR TEMP (K)	LIFE SPAN	CRI	LUMINOUS INTENSITY (cd)	DIMENSION	OSRAM	PHILIPS
Fluorescent lamps										
	T5	14 W	G5	3000-4000-6500	20000	82	1260 - 1350 lm	545 mm / ø 17 mm	T5 HE	TL5 Essential
	T5	21 W	G5	3000-4000-6500	20000	82	1900 - 2100 lm	845 mm / ø 17 mm	T5 HE	TL5 Essential
	T5	28 W	G5	3000-4000-6500	20000	82	2700 - 2900 lm	1140 mm / ø 17 mm	T5 HE	TL5 Essential
	T5	35 W	G5	3000-4000-6500	24000	85	3400 - 3650 lm		T5 HO	TL5 Master HE
	T5	49 W	G5	3000-4000-6500	24000	85			T5 HO	TL5 Master HE
	T5	54 W	G5	3000-4000-6500	24000	85	4750 - 5000 lm	1140 mm / ø 17 mm	T5 HO	TL5 Master HE
	T8	10 W	G13	6200	5000	72	425 lm	345 mm / ø 26 mm	Basic T8	TL-D Standard
	T8	15 W	G13	6200	13000	72	830 lm	345 mm / ø 26 mm	Basic T8	TL-D Standard
	T8	18 W	G13	4100-6200	13000	63-72	1030 - 1150 lm	604 mm / ø 26 mm	Basic T8	TL-D Standard
	T8	30 W	G13	6200	13000	72	1825 lm	908 mm / ø 26 mm	Basic T8	TL-D Standard
	T8	36 W	G13	6000-6500	15000	63-72	2600 - 2850 lm	1213 mm / ø 26 mm	Basic T8	TL-D Standard
	T8	58 W	G13	6500	15000	63-72	4000 - 4600 lm	1514 mm / ø 26 mm	Basic T8	TL-D Standard
	T8	18 W	G13	3000-4000-6500	15000	85	1300 - 1350 lm	604 mm / ø 26 mm	Lumilux T8	TL-D Super 80
	T8	30 W	G13	3000-4000-6500	15000	85	2300 - 2400 lm	908 mm / ø 26 mm	Lumilux T8	TL-D Super 80
	T8	36 W	G13	3000-4000-6500	15000	85	3250 - 3350 lm	1213 mm / ø 26 mm	Lumilux T8	TL-D Super 80
	T8	58 W	G13	3000-4000-6500	15000	85	5000 - 5200 lm	1514 mm / ø 26 mm	Lumilux T8	TL-D Super 80
Circular fluorescent lamps										
	TL-E	22 W	G10q	6200	8000	72	1050 lm	199 mm	Basic Circular	TL-E
	TL-E	30 W	G10q	6200	8000	72	1410 lm	209 mm	-	TL-E
	TL-E	32 W	G10q	4100-6200	8000	72	1810 - 2050 lm	288 mm	-	TL-E
	TL-E	40 W	G10q	6200	8000	72	2470 lm	390 mm	-	TL-E
Compact Fluorescent lamps										
	PLS	7 W	G23	2700-4000-6500	8000	82	400 lm	114 mm	DULUX S	PL-S 2P
	PLS	9 W	G23	2700-4000-6500	8000	82	600 lm	144 mm	DULUX S	PL-S 2P
	PLS	11 W	G23	2700-4000-6500	8000	82	900 lm	214 mm	DULUX S	PL-S 2P
	PLC	10 W	G24d-1	3000-4000-6500	10000	82	600 lm	118 mm	DULUX D	PL-C 2P
	PLC	13 W	G24d-1	3000-4000-6500	10000	82	900 lm	140 mm	DULUX D	PL-C 2P
	PLC	18 W	G24d-2	3000-4000-6500	10000	82	1200 lm	152 mm	DULUX D	PL-C 2P
	PLC	26 W	G24d-3	3000-4000-6500	10000	82	1800 lm	173 mm	DULUX D	PL-C 2P
	PLL	18 W	2G11	3000-4000-6500	15000	82	1200 lm	217 mm	DULUX L	PL-L 4P
	PLL	24 W	2G11	3000-4000-6500	15000	82	1800 lm	317 mm	DULUX L	PL-L 4P
	PLL	36 W	2G11	3000-4000-6500	15000	82	2900 lm	411 mm	DULUX L	PL-L 4P
Compact fluorescent lamps (For electronic ballast)										
	PLC-E	10 W	G24q-1	3000-4000-6500	10000	82	600 lm	118 mm	DULUX D/E	PL-C/4P
	PLC-E	13 W	G24q-1	3000-4000-6500	10000	82	900 lm	140 mm	DULUX D/E	PL-C/4P
	PLC-E	18 W	G24q-2	3000-4000-6500	10000	82	1200 lm	152 mm	DULUX D/E	PL-C/4P
	PLC-E	26 W	G24q-3	3000-4000-6500	10000	82	1800 lm	173 mm	DULUX D/E	PL-C/4P
Compact fluorescent lamps (Self electronic ballast)										
	TC-DSE	11 W	E27	3000-4000-6500	6000	80-89	600 lm	-	DULUX EL	PLE-U
	TC-TSE	15 W	E27	3000-4000-6500	6000	80-89	900 lm	128 mm	DULUX EL	PLE-U
	TC-TSE	20 W	E27	3000-4000-6500	6000	80-89	1080 lm	141 mm	DULUX EL	PLE-U
	Essential	8 W	E27	2700-6500	8000	80-82	440 - 460 lm	140 mm / ø 44 mm	-	Essential
	Essential	11 W	E27	2700-6500	8000	80-82	620 - 650 lm	155 mm / ø 44 mm	-	Essential
	Essential	14 W	E27	2700-6500	8000	80-82	820 - 860 lm	170 mm / ø 44 mm	-	Essential
	Essential	18 W	E27	2700-6500	8000	80-82	1100 - 1170 lm	165 mm / ø 52 mm	-	Essential
	Essential	23 W	E27	2700-6500	8000	80-82	1420 - 1460 lm	175 mm / ø 52 mm	-	Essential
	Genie	8 W	E27	2700-4100-6500	8000	80-82	415 - 440 lm	105 mm / ø 44 mm	-	Genie
	Genie	11 W	E27	2700-4100-6500	8000	80-82	600 - 610 lm	115 mm / ø 44 mm	-	Genie
	Genie	14 W	E27	2700-4100-6500	8000	80-82	790 - 840 lm	130 mm / ø 44 mm	-	Genie
	Genie	18 W	E27	2700-4100-6500	8000	80-82	1040 - 1100 lm	133 mm / ø 48 mm	-	Genie
	Tornado	8 W	E27	2700-6500	8000	80-82	460 - 500 lm	83 mm / ø 45 mm	-	Tornado
	Tornado	12 W	E27	2700-6500	8000	80-82	690 - 725 lm	90 mm / ø 45 mm	-	Tornado
	Tornado	15 W	E27	2700-6500	8000	80-82	900 - 950 lm	104 mm / ø 50 mm	-	Tornado
	Tornado	20 W	E27	2700-6500	8000	80-82	1250 - 1350 lm	108 mm / ø 55 mm	-	Tornado
	Tornado	24 W	E27	2700-6500	8000	80-82	1450 - 1550 lm	115 mm / ø 60 mm	-	Tornado

Glossary

Ambient Temperature (Ta)

The surrounding temperature within an environment

Binning

During fabrication, LEDs grow in the form of a crystal wafer. A 2-inch diameter wafer can carry more than 20,000 LED chips. Color and intensity variations are common across a wafer. LEDs can be "binned" into various groups by wavelength, luminous intensity, voltage drops, and other characteristics.

Candela

A unit of luminous intensity equal to 1/60th of the normal intensity of one square centimeter of a blackbody radiating at the temperature of solidification of platinum

CIE Chromaticity Diagram

In 1931 (Commission Internationale de l'Eclairage CIE) established the X-Y-Z tristimulus system for measuring color properties, based on the assumption that every color is a combination of three primary colors: red, green, and blue. The CIE Chromaticity Diagram is a two dimensional color space that defines all of the colors perceived by the human eye. Pure colors are located on the extreme outer edges of the diagram and white is located in the center.

Color Rendering Index (CRI)

The color rendering gives the quality of lighting. It is between 0 and 100; The higher the CRI is, the higher the quality of the light is good.

Color Spectrum / Visible Spectrum

The visible spectrum is the portion of the electromagnetic spectrum that is visible to the human eye, typically between 390nm and 750nm.

Color Temperature

White light can take different tones: warm, neutral, cold... The light color temperature characterized this variable. It is expressed in Kelvin. The higher the temperature is, the higher the light is cold.

1800K:	Red
2000K:	Yellow-orange
2500-3000K:	sunset, warm light
4000-5000K:	sunlight on a clear weather
6000-8000K:	overcast
10000K:	light in the shade in altitude (blue)
	Less it is illuminated, the more light must be warm,
	More it is illuminated, the more light can be cold.

Controller

A device that controls the output of color-changing and tunable white light fixtures. Controllers typically have software component for configuring fixtures and designing and editing light shows, and hardware components for sending control data to fixtures.

Digital Addressable Lighting Interface (DALI)

A digital communications protocol for controlling and dimming lighting fixtures, originally developed in Europe

DMX

A digital communications protocol for controlling lighting fixtures, originally developed to control stage lighting.

Driver

Electronics used to power illumination source.

Efficacy

The light output of a light source divided by the total electrical power input that source, expressed in lumens per watt (lm/w).

Forward Voltage (Vf)

The operating voltage of the LED. The typical rating is the voltage at which the LED will light. The maximum rating is the voltage that, if exceeded, will diminish LED lifetime.

Flux

It is the amount of light emitted by a luminous source.

LED

LED (acronym of Light Emitting Diode) is an electronic component able to emit light when cross by an electric current.

Light Distribution curve

A polar diagram shows the shape of a light beam. It depicts both the light output (lm) and the direction of the light (Cd) at the certain angle. Lighting distribution always remains the same, regardless of which lamp is used.

Light Intensity / Lumen

The lumen (lm) measures the total "amount" of visible light emitted by a source

Luminance

The luminance is the amount of light reflected from a surface to the eye of an observer. It is expressed in candela per square meter.

Level of Illumination

This is the amount of light received per unit area. Some current values: Full moon night: 0.2 lux, Full sun at noon: up to 10000lux in out latitudes, Overcast: 10000 lux

Luminous efficiency

The luminous efficiency of a source is characterized by the ratio flux emitted / power needed for its working. This ratio is expressed in lm/w. For each type of source, the efficiency Generally increases with the power.

Lumen Maintenance

The luminous flux at a given time in the life of the LED. This is expressed as a percentage of the initial luminous flux.

Lux

International System of Unit measuring the luminous flux per unit

Operating Current

The amount of the current an LED is designed to draw from the power source.

Operating Temperature

The temperature range over which an LED is designed to operate safely.

Optics

System composed of reflectors or refractors that direct the light, emitted by the lamps in a luminaire, in the desired direction.

Power Factor

The active power divided by the apparent power

URG

The URG (Unified Glare Rating) is a worldwide unified method for rating the glare of a lamp

Illuminance Level

Recommendation illuminance for general building areas. Reference: IES Lighting Handbook

GENERAL BUILDING AREAS	AVG LUX
CIRCULATION AREA	
Corridor, Passageway	100
Lift	150
Stairs	150
Escalator	150
External Covered Ways	30
ENTRANCES	
Entrance halls, lobbies	150
Enquiry desk	500
Gate houses	300
KITCHENS	
Foods stores	150
General	500
OUTDOOR	
Controlled entrance halls or exit gate	150
Entrance and exit car park	30
Stores, stock yards	30
Industrial covered ways	50
STAFF RESTAURANTS	
Centre cafeterias, dining room	300
MEDICAL AND FIRST AIDS CENTRE	
Consultant room, treatment areas	500
Medical stores	100
Rest room	150
STAFF ROOM	
Changing locker and cleaner's room	150
Rest rooms	150
STORE AND STOCK ROOMS	
Telecommunication board, switch board rooms	300
Cordless switchboard	300
Teleprinter rooms	500
AIRCRAFT MAINTENANCE HANGERS	
Aircraft engine testing	750
Inspection and repairs (hanger)	500
BOILER HOUSE GENERAL	
	150
FIRE STATIONS	
Appliance room	300
External apron	30

GENERAL BUILDING AREAS	AVG LUX
GARAGES	
External apron general	50
Pumps	300
Parking areas (interior) general repairs servicing	30
Greasing, pits washing, polishing	500
GAS WORKS	
Exterior walkways and platforms	
Exterior stairs and ladders	
Retort house, oil gas plants, water gas plant purifier, indoor coke, screening and handling plants	100
Booster and exhaustor houses	150
GAUGE TOOLS ROOMS	
General	1000
INSPECTION & TESTING SHOP	
Rough work e.g. counting rough Checking of stock parts	300
Medium work gauges sub-assemblies	500
Fine work e.g. radio and telecommunication equipment, calibrated scales, precision mechanism, instruments	1000
Very fine work e.g. gauging and inspection of small intricate parts	1500
Minute work e.g. very small instruments	3000
LABORATORIES	
(GENERAL)	750
LAUNDRIES & DRY CLEANING WORKS	
Receiving, sorting, washing, drying, ironing (cleaning) dispatch, drying cleaning, bulk machine work	300
Hand ironing, pressing, inspection, mending, spotting	300
MACHINE & FITTING SHOP	
Rough bench and machine work	300
Medium bench and machine work, ordinary automatic machines, rough grinding, medium buffing, polishing	500
Fine bench and machine work, ordinary automatic machines, rough grinding, medium buffing, polishing	1000
PHARMACEUTICAL & FINE CHEMICAL WORKS	
Inspection	750

GENERAL BUILDING AREAS	AVG LUX
Grinding, granulating mixing and drying, tabling, sterilizing and washing, preparation of solutions and filling, labeling capping, cartoning, warping	500
Fine chemical manufacture, plant processing	300
Fine chemical finishing	500
Raw material store	300
Inspection	750
PRINTING WORKS TYPE FOUNDRIES	
Matrix making, dressing type hand and machine casting	300
Front assembly sorting	750
COMPOSING PRESS	
Hand composing, imposition and distribution	750
Machine, Composition-keyboard	750
Machine composition-casting	300
Proof press	500
Illuminated tables general lighting	300
PRINTING MACHINE ROOM	
Presses	500
Premade ready	500
Printed-sheet inspection	1000
GRAPHIC REPRODUCTION	
General	500
Precision proofing, retouching, etching	1000
RUBBER PROCESSING FACTORIES	
Preparation needs, dipping molding, compounding calendaring	300
Tire and tube making	500
SHEET METAL WORKS	
Bench work, scribing, inspection	750
Pressing, punching, shearing stamping, spinning, folding	500
WELDING & SOLDERING SHOP	
Gas and arc welding rough spot welding	300
Medium soldering, brazing spot welding e.g. domestic hand ware	500
Fine soldering, spot welding e.g. instrument	1000
Very fine soldering, spot welding e.g. radio valves	1500

Illuminance Level

Recommendation illuminance for general building areas. Reference: IES Lighting Handbook

GENERAL BUILDING AREAS	AVG LUX	GENERAL BUILDING AREAS	AVG LUX	GENERAL BUILDING AREAS	AVG LUX
SLAUGHTER HOUSE		Reading table	300	Enquiry desk	500
General	500	Reading rooms, newspaper and magazines	300	Laboratories	500
Inspection	750	Reference libraries	500	Operating theatre suits general	400
WOOD WORKING SHOP		Counters	500	Operating area	400
Rough sawing, benchwork	300	Cataloging and sorting	500	Recovery room and intensive care units	30-50
Sizing, planning, rough sanding medium and bench work gluing cooperage	500	Binding	500	X-ray department radio-diagnostic and rooms fluoroscopy	500
Fine bench and machine work fine sanding, finishing	750	Closed book store	100	Dental surgeries	500
OFFICE		MUSEUM AND ART GALLERIES GENERAL		HOMES	
Executive office	500	Exhibits insensitive to light	300	Living rooms general	50
Computer rooms	500	Light sensitive exhibits	150	Casual reading	150
Punch card rooms	750	Specially light sensitive exhibit	50	Sewing darning studies desk	300
Drawing offices drawing boards	750	SCHOOL		Bedroom general	50
Reference table and general	500	Assembly halls general	300	Bed lead kitchen	150
Print room	300	Platform and stage	Special	Kitchen working area	150
SHOP		Teaching spaces general	300	Bathrooms	100
Conventional with counters	500	General where also used for further education	500	Halls and landings	150
Conventional with wall display	500	Chalkboard	500	Stairs	100
Self service	500	Needlework rooms	500	Workshops	300
Supermarkets	500	Laboratories	500	Garages	50
Hypermarkets	500	Workshop	300	INDOOR SPORTS AND RECREATIONAL BUILDING	
General	500	Gymnasium	300	MULTIPURPOSE SPORT HALLS	
PUBLIC AND EDUCATIONAL BUILDING ASSEMBLY AND CONCERT HALL		Music practice rooms	300	Athletics, basketball, bowls, judo	300
Theater and concert halls	100	TRANSPORTS TERMINAL BUILDING		Hockey	700
Cinema	50	Airport coach and railway station	500	BADMINTON COURTS	300
Multipurpose	500	Reception areas (desk) customs and immigration halls	500	BILLBOARD ROOMS	
EDUCATION ESTABLISHMENT		Railway stations booking offices	500	General	100
Lecture theatres general	500	Railway station parcel and left luggage offices counters	300	Table	Special
Chalkboard	500	Circulation area	150	CARD ROOMS	300
Demonstration benches	500	Waiting area	300	GYMNASIA GENERAL	500
Examination halls, seminar rooms, teaching spaces	500	HOSPITAL		SWIMMING POOL	
Laboratories	500	Ward unit bed heads general	30-50	Top pool	500
Workshop	300	General	150	Spectator areas	150
Staffrooms, student rooms, students hostel etc.	300	Night	0.1	Club recreational	300
Gymnasium	300	Nurse station evening	300	GENERAL	
LIBRARIES		Pharmacies dispensing bench	500	Changing rooms showers lockers rooms	150
Shelves, book stack	150	Shelves	150	TABLE TENNIS	
		Reception general	300	Club	300
				Recreational	200




IP degrees of Protection

A two-digit number is used to provide a Ingress Protection rating to a piece of electronic equipment or to an enclosure for electronic equipment. The protection class after EN60529 are indicated by short symbols that consist of the two code letter IP and a code numerical for the amount of the protection.

IP numeral	First Digital IP Protection vs. Solid Bodies	Second Digit IP Protection vs. Water
0	Non protected.	Non protected
1	A large surface of the body, such as a hand (but no protection against deliberate access) Solid objects exceeding 50mm in diameter.	Dripping water (vertically falling drops) shall have no harmful effect.
2	Finger or similar objects not exceeding 80mm in length. Solid objects exceeding 12mm in diameter	Vertically dripping water shall have no harmful effect when the enclosure is tilted at any angle up to 15° from its normal position.
3	Tools, wires, etc. of diameter thickness greater than 2.5mm. Solid objects exceeds 2.5mm in diameter.	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect.
4	Wires or strips of thickness greater than 1.0mm. Solid objects exceeding 1.0mm diameter.	Water splashed against the enclosure from any direction shall have no harmful effect.
5	Ingress of dust is not prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect.
6	No ingress of dust.	Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities.
7		Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time.
8		The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer.




















Protection Class

All electrical appliances using mains voltage have to provide at least 2 levels of protection to the user. This is to ensure that if one of the protection layers were to fail, there is the backup of the second layer still in place. This makes electrical equipment very safe to use.

Protection Class	Symbol	Definition
Class I		Luminaires in this class are electrically insulated and provided with connection with earth. Exposed metal parts that could become live in the event of basic insulation failure are protected by earthing.
Class II		Class II luminaires are designed and constructed so that protection against electric shock does not rely on basic insulation only. This can be achieved by means of reinforced by double insulation. No provision for earthing is provided.
Class III		Protection against electric shock relied on supply at Safety Extra - Low Voltage (SELV) and in which voltages higher than those of SELV are not generated (max. 50V AC rms).
F		Luminaires applicable on normally inflammable surfaces

Safety Inspection Marks

Below is a listing of the various safety marks from several countries. Many SECO products and their components such as power cords are also certified to appropriate international standards EN60598 / EN60570 indicated by the following symbols.

Mark	Country Compliant	Mark	Country Compliant
	B.S.I. Kite Mark (UK)		VDE (Germany)
	NEMKO (Norway)		KEMA (Holland)
	DEMKO (Denmark)		CEBEC (Belgium)
	SEMKO (Sweden)		IMQ (Italy)
	SETI (Finland)		GOSSTANDART (Russia)
	ENEC		UL (USA)
	SEV (Switzerland)		CSA (Canada)
	TUV (Germany)		PSE (Japan)
	TISI (Thailand)		CCC (China)
	<p>The CE mark signifies that a product conforms with the relevant ECC directives requirements. The CE marking is compulsory to indicate LVD and EMC conformity. The CE mark is also a self certification that the manufacturer claims that the product is safe. The value of such claim is directly related to the standing of the manufacturer. In the case of SECO Lighting: All products are designed, developed, manufactured under the scope of the ISO 9001:2008 quality systems and TISI product standards.</p>		

This image shows a full page of a handwriting practice worksheet. It consists of numerous horizontal dotted lines spaced evenly across the page, providing a guide for letter height and placement. The background is plain white, and there are no other markings or text present.



Morbang Soi



Traimit
Temple

Karnchanapisak Rd.

Bangkok
Prapadang
Hospital



Bangpakok3
Hospital



Suksawad Rd.



Kasikornthai
Bank



BigC
Prapadang

Prapadang Rd.

Prachauthit Rd.

Chaloem Maha Nakhon Expressway

Ream2 Rd.



Tesco
Lotus



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