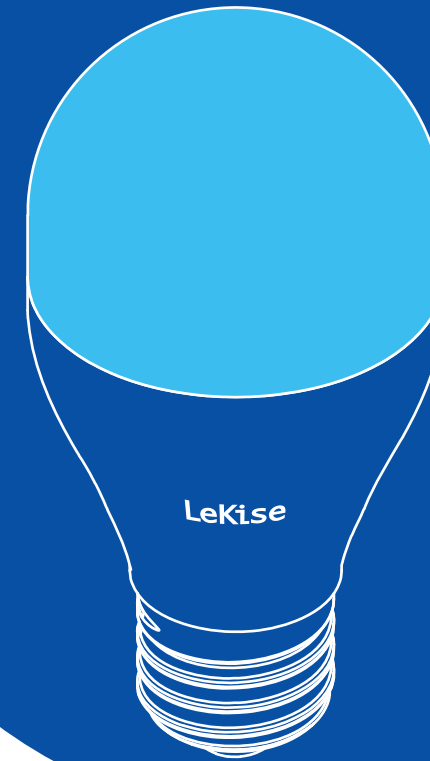
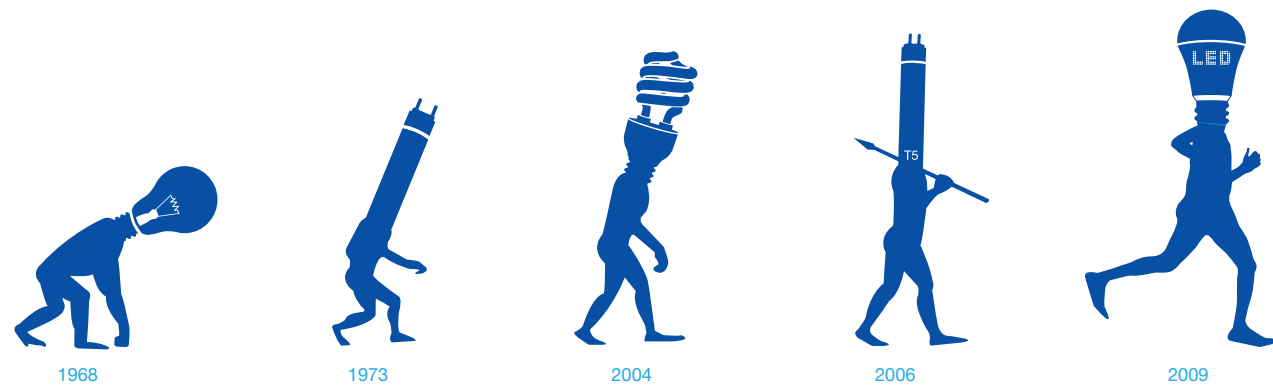


LeKise
TURN THE LIFE ON

TURN THE LIFE ON
LeKise LED CATALOGUE 2015



LeKise
TURN THE LIFE ON
EXPERIENCE SINCE 1968



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LeKise

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Important Notice: The values given in this material for the technical parameters are only for statistic values that do not necessarily correspond to the actual parameters of an individual lamp. This information may be updated and changed at any time without notice as new manufacturing process and technology is developed.



About us

Lekise Lighting Co.,Ltd.(Thailand) formerly known as the LKS Electric Products Co., (Thailand) Co., Ltd. was established in 2550 Lee kitjhareonseang Co. Ltd., which is a growth business. manufacturer of lamps for over 40 years of cooperation techniques with HITACHI LIGHTING Japan to manufacture and sale of lamps and lighting for the other domestic and foreign countries in 2550, the company has worked with. Electricity, Thailand. Fluorescent tubes and compact to St.. Light chopsticks under the number 5 and in 2551 the company has also worked with the Electricity Generating Authority, Thailand. New thin tube to tube # 5, or T5 to T8 to T5 campaign to change the thin tube through a Thai company that produces one of the largest in number 5.

Year 2552 the company began to expand the project. The project established a sales team spread across all regions. Along with research and development. New products. To meet market demand in the first group of projects, such as lamps, Fluorescent lamps St. LED Exit Sign Replacement lamp for the company focuses on energy efficiency and expanding group of architects, engineers, owners, contractors.

Year 2553, the company wants to create a unique and different from the project. To become a market leader in the project rapidly. The team expanded to a full-service lighting concept, which consists of ONE STOP LIGHTING SERVICE.

1. Products research team develops and manufactures a full range of lighting. The energy saving devices.
2. Lighting Solution design team to suit individual optical applications. Conform to international standards. This will result in savings.
3. PowerServe before and after-sales service team. Install the light and energy before real trading.
4. CSR & CRM team are knowledgeable about energy conservation. And social activities with clients as well.

Simultaneously, the company has expanded its facilities for the project covers all regional centers across the country such as province of Chiang Mai, Surat Thani Province and Udon Thani Province.

Year 2554 the company has developed a wide variety of LED products. In response to customers. Market for renewable energy products in the market.

Under the One Stop Lighting Service and the project team continued. And attention to after-sales service within two years, the company that can do large projects throughout the project, which covers more than 2,000 customers. Group of schools, hospitals, hotels, office buildings, factories, shopping malls. As a result, the company has received many awards, including the establishment of good.

Year 2556, LeKise explores the international markets by establishing oversea operations in Cambodia, China, Laos, Malaysia/Singapore/Brunei, Philippines/Papua New Guinea, Vietnam includes extending the sales and service networks around the world.

We are the leading manufacture of evolution of innovative energy saving light products.

LeKise will be Leader of replacement for energy saving luminaire.

LeKise will be professional and service oriented team player when comes to professional project around the region.

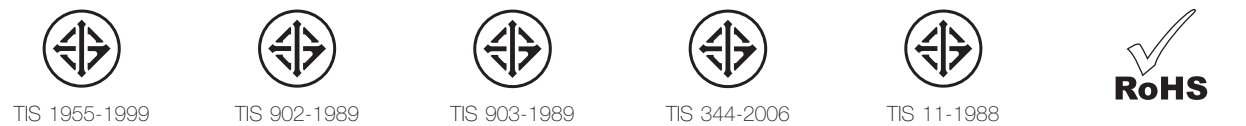
LeKise that connect, resonance and compete to international market.

LeKise is continuously improving to be confident to Stake Holder.

Company certificate



Thai company Works in collaboration with Electrical Generating Authority of Thailand (EGAT) to manufacture energy efficient products.



Fluorescent T5

Electronic Ballast T5



LED NO.5



BRAND	TYPE	MODEL	WATT.	COLOR	EFFICACY
LEKISE	E27	A60 5W/D	5	DAY LIGHT	86
LEKISE	E27	A60 8W/D	8	DAY LIGHT	91
LEKISE	E27	LED A60 5W/WW	5	WARM WHITE	80
LEKISE	E27	LED A60 8W/WW	8	WARM WHITE	75
LEKISE	MR16	LED MR16 3W/CW	3	COOL WHITE	78
LEKISE	PAR38	LED PARLIGHT PAR38	13	WARM WHITE	57
LEKISE	T8	LED TUBE 9W/D	9	DAY LIGHT	99
LEKISE	T8	LED TUBE 9W/WW	9	WARM WHITE	90
LEKISE	T8	LED TUBE T8 18W/D-CLEAR	18	DAY LIGHT	114
LEKISE	T8	LED TUBE T8 18W/D-MILKY	18	DAY LIGHT	106
LEKISE	T8	LED TUBE T8 18W/WW-CLEAR	18	WARM WHITE	99
LEKISE	T8	LED TUBE T8 18W/WW-MILKY	18	WARM WHITE	93



Indoor & Signage

Lamp



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LED MR16 SPOTLUX™ (SMD)

LeKise LED MR16 SPOTLUX is SMD technology and designed for direct replacement of traditional halogen lamps. Spotlux comes with full arrays of high performance power perfectly replacing to most popular traditional halogen lamps. Housing is made from thermoplastic material giving the advantage over other products. Spotlux offers the energy saving upto 80% in comparison with traditional halogen lamps. LeKise LED MR16 Spotlux is an ideal choice for hospitality and commercial application.



Features

- ✓ Built using high quality SMD 2835.
- ✓ Lifetime upto 30,000 hours.
- ✓ Thermoplastic housing for excellent heat dissipation properties.
- ✓ Ideal replacements for 20W, 35W and 50W halogen lamps.
- ✓ Compatible with all leading Magnetic and Electronic transformers in the market.
- ✓ No Flickering, No UV and No IR under specifically tested conditions.
- ✓ CE/ErP/GS Certified and approved.
- ✓ Excellent CRI >80.

Applications

- ✓ Typical indoor luminaires
- ✓ Exhibition halls and department stores
- ✓ Hospitality
- ✓ Museums
- ✓ Shops
- ✓ Downlight for marking walkways, doors, stairs, etc.



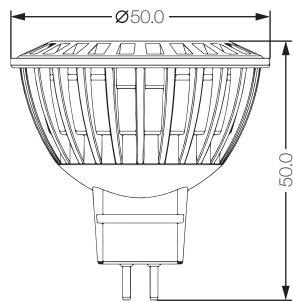
Product Code	Product Description	Nominal Wattages ¹	Initial Lumen(lm)	Base	CCT ² (K)	Beam angle(°)	CRI (Ra)	Operating Voltage	Dimmable	Rated Avg. Life@L70 ³ (hrs)
LED MR16 Spotlux™ (SMD)										
1050009	LED4/MR16SLX/SMD/830/GU5.3 12V	4	250	GU5.3	3000	38	>80	12V	NO	30,000
1050010	LED4/MR16SLX/SMD/840/GU5.3 12V	4	255	GU5.3	4000	38	>80	12V	NO	30,000
1050011	LED4/MR16SLX/SMD/865/GU5.3 12V	4	260	GU5.3	6500	38	>80	12V	NO	30,000
1050012	LED5/MR16SLX/SMD/830/GU5.3 12V	5	360	GU5.3	3000	38	>80	12V	NO	30,000
1050013	LED5/MR16SLX/SMD/840/GU5.3 12V	5	370	GU5.3	4000	38	>80	12V	NO	30,000
1050014	LED5/MR16SLX/SMD/865/GU5.3 12V	5	380	GU5.3	6500	38	>80	12V	NO	30,000
1050015	LED6/MR16SLX/SMD/830/GU5.3 12V	6	500	GU5.3	3000	38	>80	12V	NO	30,000
1050016	LED6/MR16SLX/SMD/840/GU5.3 12V	6	510	GU5.3	4000	38	>80	12V	NO	30,000
1050017	LED6/MR16SLX/SMD/865/GU5.3 12V	6	550	GU5.3	6500	38	>80	12V	NO	30,000

¹Not include power losses magnetic/electronic ballast.

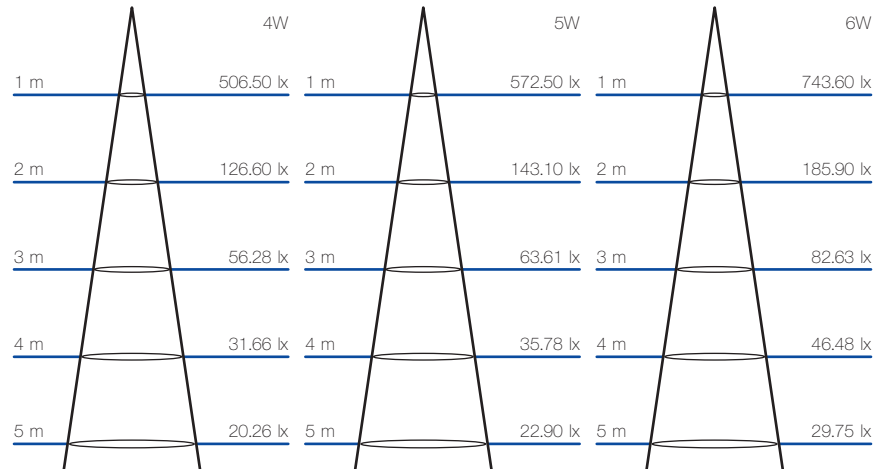
²With a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

³According to LM-80 test report from LED manufacturer. Contact LeKise's representative for more information.

Drawing



Illuminance

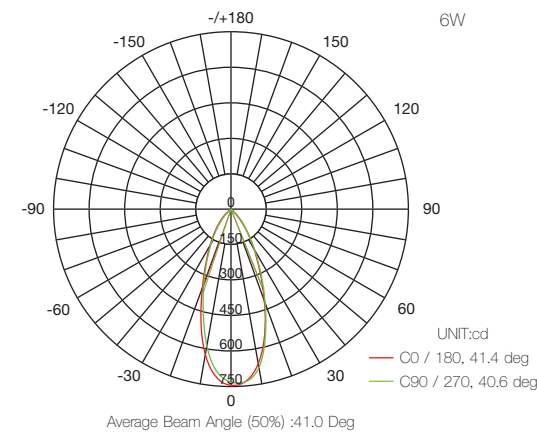
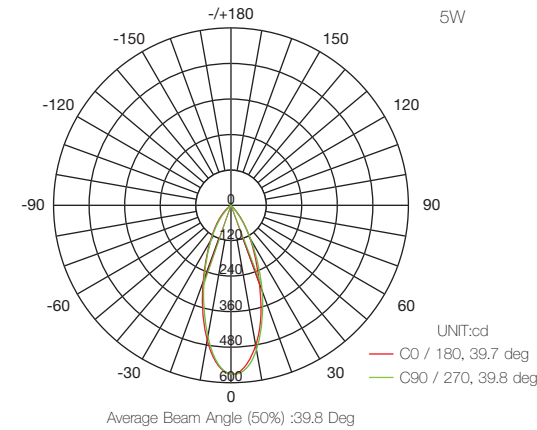
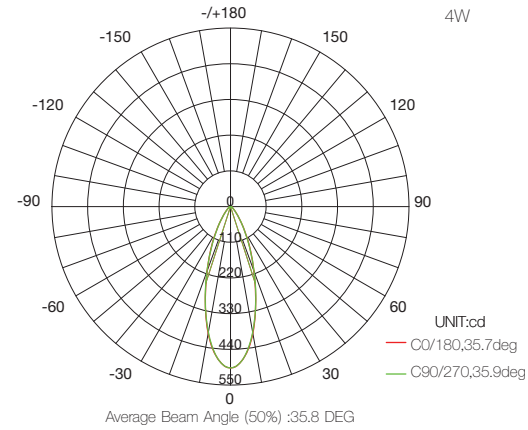


Photometric data

Following intensity distribution for cool white model. Contact LeKise's representative for photometric information of each individual model.

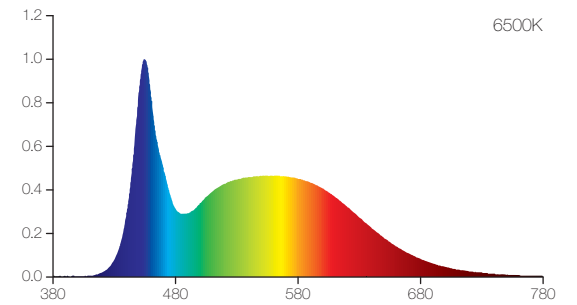
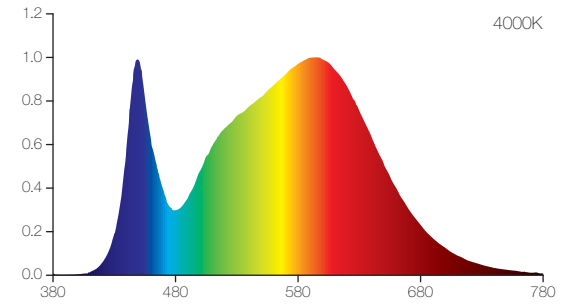
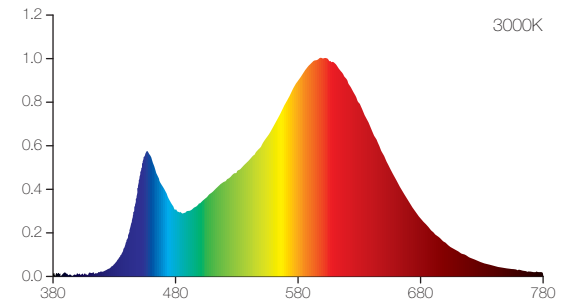
Luminous Intensity Distribution Diagram

The following images depict the luminous intensity distribution characteristics of the lamps:



Spectral Power Distribution

The following images depict the absolute spectral power distribution characteristics of the lamps:



CAUTION

1. Switch off the main supply before inspection and installation.
2. Not suitable for use in totally enclosed fixtures.
3. Store and use the lamps the same way as traditional lamps.
4. Appropriated low voltage at 12V.
5. Ambient temperature range -10°C to 40°C

Replacement Chart

Spotlux Replacement Wattage	Traditional Halogen Wattage
4W	20W
5W	35W
6W	50W

LED A60 - Classic Plus

LeKise Classic Plus is one of the new generation led lamps which offers 30,000 hours lifetime and have considerable amount of energy savings in comparison with traditional incandescent bulbs. Classic Plus bulb is made of high quality thermo plastic material with Aluminum inside for better heat dissipation. Classic Plus offers frosted PC cover with better light transmittance in comparison with bulbs available in the market. Classic Plus is an ideal replacement for general lighting applications in hospitality and residential area where high reliable products are considered.



Features

- ✓ Built using high quality SMD 2835 chip.
- ✓ Thermo Plastic housing with Aluminum inside for better heat dissipation.
- ✓ PC frosted cover with good light transmittance offering beam angle of 180 degree.
- ✓ Lifetime upto 30,000 hours.
- ✓ Higher Lumen efficiency of >90lm/W and CRI >80.
- ✓ Power factor ranging from >0.5 to >0.70.
- ✓ No Flickering, No UV and No IR under specifically tested conditions.
- ✓ CE/ErP/GS certified and approved.

Applications

- ✓ All typical household luminaries
- ✓ Hotels
- ✓ Offices
- ✓ Hospitals
- ✓ Facilities
- ✓ Commercial areas

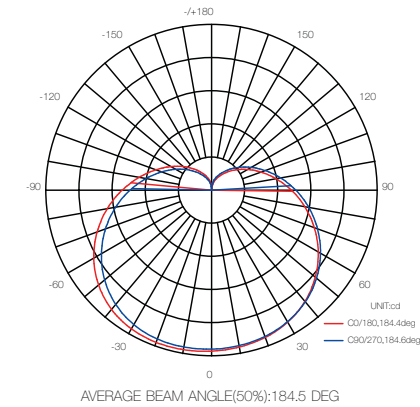


Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

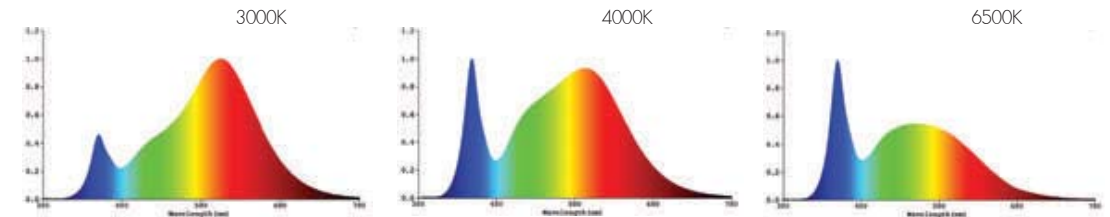
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the lamp:



Spectral Power Distribution

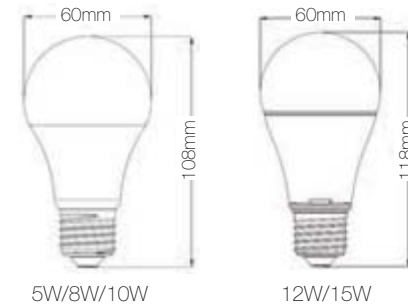
The following images depict relative spectral power distribution characteristics of the lamp:



Product Code	Product Description	Nom. Watts	Initial Lumen(lm)	Beam angle(°)	CCT ¹ (K)	CRI (Ra)	Base	Rated Avg. Life@L70 ² (hrs)	Length (mm)	Diameter (mm)
LED A60 - Classic Plus										
1030057	LED5/A60KLASSICPLUS/830/E27 220-240V	5	450	>180	3000	>80	E27	30,000	108	60
1030058	LED5/A60KLASSICPLUS/840/E27 220-240V	5	460	>180	4000	>80	E27	30,000	108	60
1030059	LED5/A60KLASSICPLUS/865/E27 220-240V	5	470	>180	6500	>80	E27	30,000	108	60
1030060	LED8/A60KLASSICPLUS/830/E27 220-240V	8	650	>180	3000	>80	E27	30,000	108	60
1030061	LED8/A60KLASSICPLUS/840/E27 220-240V	8	670	>180	4000	>80	E27	30,000	108	60
1030062	LED8/A60KLASSICPLUS/865/E27 220-240V	8	700	>180	6500	>80	E27	30,000	108	60
1030063	LED10/A60KLASSICPLUS/830/E27 220-240V	10	790	>180	3000	>80	E27	30,000	108	60
1030064	LED10/A60KLASSICPLUS/840/E27 220-240V	10	800	>180	4000	>80	E27	30,000	108	60
1030065	LED10/A60KLASSICPLUS/865/E27 220-240V	10	806	>180	6500	>80	E27	30,000	108	60
1030066	LED12/A60KLASSICPLUS/830/E27 220-240V	12	1000	>180	3000	>80	E27	30,000	118	60
1030067	LED12/A60KLASSICPLUS/840/E27 220-240V	12	1020	>180	4000	>80	E27	30,000	118	60
1030068	LED12/A60KLASSICPLUS/865/E27 220-240V	12	1055	>180	6500	>80	E27	30,000	118	60
1030069	LED15/A60KLASSICPLUS/830/E27 220-240V	15	1300	>180	3000	>80	E27	30,000	118	60
1030070	LED15/A60KLASSICPLUS/840/E27 220-240V	15	1325	>180	4000	>80	E27	30,000	118	60
1030071	LED15/A60KLASSICPLUS/865/E27 220-240V	15	1350	>180	6500	>80	E27	30,000	118	60

¹A60 with a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)
²According to LM-80 test report from LED manufacturer. Contact LeKise's representative for more information.

Drawing



Replacement chart

Klassic PLUS Replacement	Traditional Incandescent Lamp
5W	40W
8W	50W
10W	60W
12W	75W
15W	100W

CAUTION

1. Switch off the main supply before inspection and installation.
2. Not suitable for use in totally enclosed fixtures.
3. Store and use the lamps the same way as traditional lamps.
4. Suitable for voltage fluctuations of 220-240VAC ±10%.
5. Ambient temperature range -10 °C to 40 °C.

LED A60 - Klassic Pro

LeKise LED A60 Klassic Pro use the new Ceramic Independent Heat Management (IHM) technology to ensure the long life service and benefiting to eliminate typical metal heat sink leading to less materials and light weight for bulb. LED A60 Klassic Pro has the simple design similar with typical A60 bulb offering the low energy saving vs. traditional GLS lamps. High lumen efficiency up to 100lm/W and comply with IEC standards. LED A60 Klassic Pro is ideal replacement for general lighting applications in hospitality and residential where high reliability is in concern.



Features

- ✓ Simple design and aesthetic similar with traditional GLS bulb.
- ✓ New high efficiency of heat dissipation technology Ceramic IHM¹ without big heat sink and ensure for long life.
- ✓ Good light distribution with wide beam angle up to 300 degree.
- ✓ High lumen efficiency up to 100lm/W with CRI >80
- ✓ Low energy consumption; 5.5W equivalent to 40W GLS and 8W equivalent to 60W GLS.
- ✓ Long life up to 25,000 hours.
- ✓ No UV and No IR radiation in the light beam.
- ✓ Non-dimmable, Instant on and flicker free.
- ✓ Power Factor >0.5

Applications

- ✓ All typical household luminaries
- ✓ Hotels
- ✓ Offices
- ✓ Hospitals
- ✓ Facilities
- ✓ Commercial areas



¹IHM stands for Independent Heat Management.



LED A60 - FILASTAR™

LeKise LED A60 FILASTAR™ offers the new generation of light source with latest COB Filament LED in the traditional A60 shaped clear bulb emitting the light distribution same as ordinary incandescent at 360 degree. FILASTAR™ comes with correlated color temperature at 2700K and 3000K perfectly to applications where specific warm light is in concern. Easy to replace E27 incandescent lamp with low power consumption up to 85% energy saving. FLASTAR™ is ideal choice of energy saving in hospitality industry with warm light ambience as close as general light source.



Features

- ✓ New COB filament LED bulb replicating traditional incandescent lamp.
- ✓ 290 beam angle with 100lm/W efficacy.
- ✓ Perfect light distribution with CRI >80.
- ✓ CCT available at 2700K and 3000K for specific ambient light requirement.
- ✓ Light decay <8% after 30000 hrs.
- ✓ Long life up to 25000 hrs.
- ✓ No hazard of mercury and fully comply with CE and RoHS directive.
- ✓ Non-dimmable.
- ✓ Power Factor >0.5

Applications

- ✓ Hotels
- ✓ Restaurants & Bars
- ✓ Corridor
- ✓ Museums & Galleries
- ✓ High-End Residential / Commercial Decorative Lighting
- ✓ Marquees and Signs

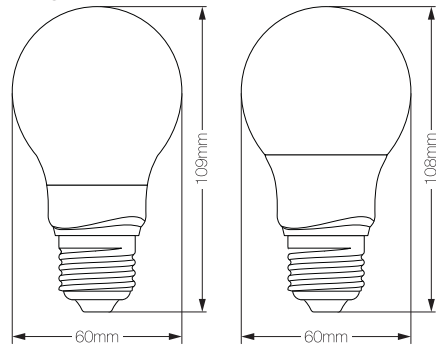


Product Code	Product Description	Nom. Watts	Initial Lumen(lm)	Beam angle(°)	CCT ¹ (K)	CRI (Ra)	Base	Rated Avg. Life ² (hrs.)	Length (mm)	Diameter (mm)	Product Code	Product Description	Nom. Watts	Initial Lumen(lm)	Beam angle(°)	CCT ¹ (K)	CRI (Ra)	Base	Rated Avg. Life ² (hrs.)	Length (mm)	Diameter (mm)
LED A60 - Klassic Pro											LED A60 - FILASTAR™										
1030007	LED55/A60KLASSICPRO/827/E27 220-240V	5.5	470	300	2700	80	E27	25,000	109	60	1030011	LED4/A60FILASTAR/827/E27 220-240V	4	400	290	2700	>80	E27	25,000	107	60
1030008	LED55/A60KLASSICPRO/865/E27 220-240V	5.5	490	300	6500	80	E27	25,000	109	60	1030012	LED4/A60FILASTAR/830/E27 220-240V	4	400	290	3000	>80	E27	25,000	107	60
1030009	LED8/A60KLASSICPRO/827/E27 220-240V	8	800	270	2700	80	E27	25,000	108	60	1030013	LED6/A60FILASTAR/827/E27 220-240V	6	550	290	2700	>80	E27	25,000	107	60
1030010	LED8/A60KLASSICPRO/865/E27 220-240V	8	850	270	6500	80	E27	25,000	108	60	1030014	LED6/A60FILASTAR/830/E27 220-240V	6	550	290	3000	>80	E27	25,000	107	60

¹With a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)
²According to LM-80 test report from LED manufacturer. Contact LeKise's representative for more information.

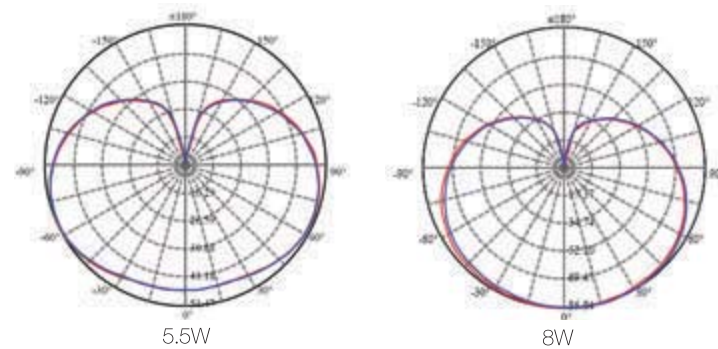
¹With a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)
²According to LM-80 test report from LED manufacturer. Contact LeKise's representative for more information.

Drawing

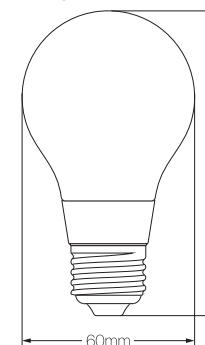


Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the lamp:

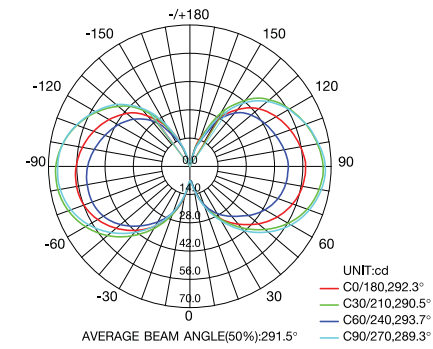


Drawing



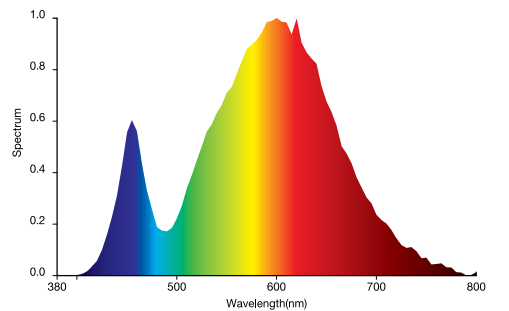
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the lamp:



Spectral Power Distribution

The following images depict relative spectral power distribution characteristics of the lamp:



CAUTION

1. Switch off the main supply before inspection and installation.
2. Not suitable for use in totally enclosed fixtures.
3. Store and use the lamps the same way as traditional lamps.
4. Suitable for voltage fluctuations of 220-240VAC ±10%.
5. Ambient Temperature range -10 °C to 40 °C
6. Not suitable for dimming.

CAUTION

1. Switch off the main supply before inspection and installation.
2. Not suitable for use in totally enclosed fixtures.
3. Store and use the lamps the same way as traditional lamps.
4. Suitable for voltage fluctuations of 220-240VAC ±10%.
5. Ambient Temperature range -10 °C to 40 °C
6. Not suitable for dimming.

LED Decorative - CandleStar

LeKise CandleStar is the most popular lighting suitable for decorative applications. CandleStar are perfect replacements for traditional halogen & incandescent lamps. They Save 80% energy as compared with incandescent lamps. LeKise offers wide range of CandleStar products suitable with Dimming and Non Dimming options. LeKise CandleStar is available in clear shape and also frosted milky bulb shape depending on consumers requirements.



Features

- ✓ Exhibits Halogen - incandescent like sparkling light effects.
- ✓ Available in both E14 and E27 bases.
- ✓ Inhibits high quality cooling systems with Stylish appearance.
- ✓ Significant energy savings of more than 80% if compared with traditional lamps.
- ✓ Specially designed lens cover for wide beam angle.
- ✓ Exceptional lifetime of more than 36,000¹ hours.
- ✓ Available in both Dimmable and Non Dimmable version.
- ✓ Available in both clear and frosted bulb shapes.
- ✓ Dimmable level is defined from 5% to 100% on the dimmable series.

¹Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Applications

- ✓ Hospitality industry
- ✓ Chandeliers and modern luminaires
- ✓ Pendant applications
- ✓ Wall Sconce and table lamps



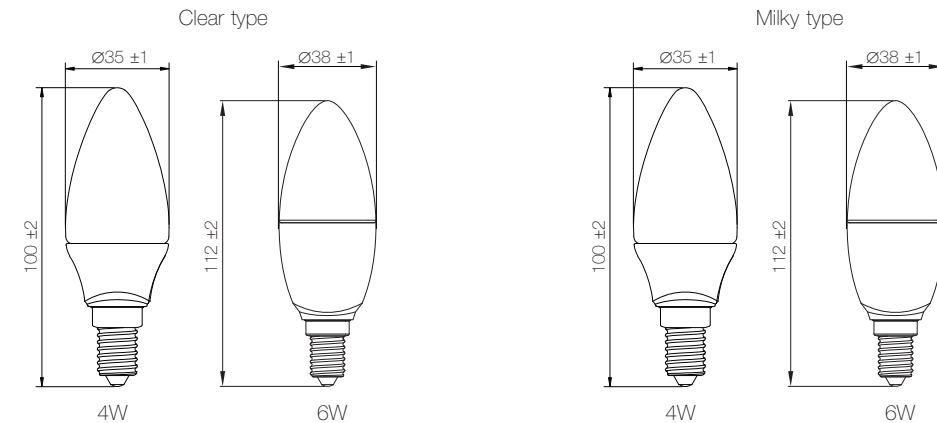
Product Code	Product Description	Wattage (W)	Lumen (lm)	Wattage Equivalent to (W)	Base	Color Temp.	Rated Avg. Life@L70 ¹ (hrs.)	CRI (Ra)	Dimmable
CandleStar - Clear Bulb with E14 Base									
1040053	LED4/C35C/827/E14 220-240V	4	250	25	E14	2700	36,000	>80	No
1040054	LED4/C35C/865/E14 220-240V	4	260	25	E14	6500	36,000	>80	No
1040055	LED6/C35C/827/E14 220-240V	6	470	50	E14	2700	36,000	>80	No
1040056	LED6/C35C/865/E14 220-240V	6	540	50	E14	6500	36,000	>80	No
1040061	LED4D/C35C/827/E14 220-240V	4	250	25	E14	2700	36,000	>80	Yes
1040062	LED4D/C35C/865/E14 220-240V	4	280	25	E14	6500	36,000	>80	Yes
1040063	LED6D/C35C/827/E14 220-240V	6	470	50	E14	2700	36,000	>80	Yes
1040064	LED6D/C35C/865/E14 220-240V	6	490	50	E14	6500	36,000	>80	Yes

Product Code	Product Description	Wattage (W)	Lumen (lm)	Wattage Equivalent to (W)	Base	Color Temp.	Rated Avg. Life@L70 ¹ (hrs.)	CRI (Ra)	Dimmable
CandleStar - Clear Bulb with E27 Base									
1040001	LED4/C35C/827/E27 220-240V	4	250	25	E27	2700	36,000	>80	No
1040002	LED4/C35C/865/E27 220-240V	4	260	25	E27	6500	36,000	>80	No
1040003	LED6/C35C/827/E27 220-240V	6	470	50	E27	2700	36,000	>80	No
1040004	LED6/C35C/865/E27 220-240V	6	540	50	E27	6500	36,000	>80	No
1040009	LED4D/C35C/827/E27 220-240V	4	250	25	E27	2700	36,000	>80	Yes
1040010	LED4D/C35C/865/E27 220-240V	4	280	25	E27	6500	36,000	>80	Yes
1040011	LED6D/C35C/827/E27 220-240V	6	470	50	E27	2700	36,000	>80	Yes
1040012	LED6D/C35C/865/E27 220-240V	6	490	50	E27	6500	36,000	>80	Yes

Product Code	Product Description	Wattage (W)	Lumen (lm)	Wattage Equivalent to (W)	Base	Color Temp.	Rated Avg. Life@L70 ¹ (hrs.)	CRI (Ra)	Dimmable
CandleStar - Milky Bulb with E14 Base									
1040057	LED4/C35M/827/E14 220-240V	4	250	25	E14	2700	36,000	>80	No
1040058	LED4/C35M/865/E14 220-240V	4	280	25	E14	6500	36,000	>80	No
1040059	LED6/C35M/827/E14 220-240V	6	470	50	E14	2700	36,000	>80	No
1040060	LED6/C35M/865/E14 220-240V	6	540	50	E14	6500	36,000	>80	No
1040065	LED4D/C35M/827/E14 220-240V	4	250	25	E14	2700	36,000	>80	Yes
1040066	LED4D/C35M/865/E14 220-240V	4	280	25	E14	6500	36,000	>80	Yes
1040067	LED6D/C35M/827/E14 220-240V	6	470	50	E14	2700	36,000	>80	Yes
1040068	LED6D/C35M/865/E14 220-240V	6	490	50	E14	6500	36,000	>80	Yes

Product Code	Product Description	Wattage (W)	Lumen (lm)	Wattage Equivalent to (W)	Base	Color Temp.	Rated Avg. Life@L70 ¹ (hrs.)	CRI (Ra)	Dimmable
CandleStar - Milky Bulb with E27 Base									
1040005	LED4/C35M/827/E27 220-240V	4	250	25	E27	2700	36,000	>80	No
1040006	LED4/C35M/865/E27 220-240V	4	280	25	E27	6500	36,000	>80	No
1040007	LED6/C35M/827/E27 220-240V	6	470	50	E27	2700	36,000	>80	No
1040008	LED6/C35M/865/E27 220-240V	6	540	50	E27	6500	36,000	>80	No
1040013	LED4D/C35M/827/E27 220-240V	4	250	25	E27	2700	36,000	>80	Yes
1040014	LED4D/C35M/865/E27 220-240V	4	280	25	E27	6500	36,000	>80	Yes
1040015	LED6D/C35M/827/E27 220-240V	6	470	50	E27	2700	36,000	>80	Yes
1040016	LED6D/C35M/865/E27 220-240V	6	490	50	E27	6500	36,000	>80	Yes

Drawing



Dimmer Info

- ★ Dimmable Candlestar products works smoothly with most of the leading dimmers available in the market.
- ★ Dimmers can control maximum of 8 pcs CandleStar led bulbs.

⚠ CAUTION

1. Switch off the main supply before inspection and installation.
2. Not suitable for use in totally enclosed fixtures.
3. Store and use the lamps the same way as traditional lamps.
4. Suitable for voltage fluctuations of 220-240VAC ±10%.
5. Ambient temperature range -10 °C to 40 °C.

LED PAR Reflector Series – COMPAZ™

LeKise Compaz PAR led lamps comes with robust design and combines a high intensity light with substantial energy savings. There aluminum body is suitably designed for long hour lighting applications. LeKise Compaz PAR led lamps are available in both dimmable and non-dimmable versions. These lamps are easily retrofittable and compatible with existing fixtures having E27 base. They are perfect replacements for halogen and incandescent spots. LeKise Compaz PAR lamps delivers huge energy savings and minimize maintenance cost without reduction in brightness. 35,000 hours burning lifetime at L70. They are especially suitable for public areas such as lobbies, corridors, stairwells, where the light is always on.



Features

- ✓ Built in with high quality SMD 3030 chip.
- ✓ Aluminum body designed for long hour lighting and heat dissipation.
- ✓ Lifetime support of 35,000 hours at L70.
- ✓ Available in both dimmable and non-dimmable series.
- ✓ Offers UV and IR free light.
- ✓ Power factor >0.9.
- ✓ Retrofittable and compatible with existing fixtures with E27 holder.
- ✓ Smooth dimming upto 10% of the actual light level*

Applications

- ✓ Hotel/Restaurant/Supermarket
- ✓ Commercial building
- ✓ Architectural/spot lighting
- ✓ Retail
- ✓ Residential



Product Code	Product Description	Nom. Watts	Initial Lumen(lm)	Beam angle ¹ (°)	CCT ² (K)	CRI (Ra)	Power Factor	Rated Avg. Life@L70 ³ (hrs)	Dimmable	Base
Led PAR Reflector Series – Compaz (Non-Dimmable)										
1050018	LED7/PAR20AL/SMD/830/E27 220-240V	7	420	40	3000	>80	0.9	35,000	No	E27
1050019	LED7/PAR20AL/SMD/840/E27 220-240V	7	430	40	4000	>80	0.9	35,000	No	E27
1050020	LED7/PAR20AL/SMD/865/E27 220-240V	7	450	40	6500	>80	0.9	35,000	No	E27
1050021	LED11/PAR30AL/SMD/830/E27 220-240V	11	720	30	3000	>80	0.9	35,000	No	E27
1050022	LED11/PAR30AL/SMD/840/E27 220-240V	11	740	30	4000	>80	0.9	35,000	No	E27
1050023	LED11/PAR30AL/SMD/865/E27 220-240V	11	760	30	6500	>80	0.9	35,000	No	E27
1050024	LED13/PAR30AL/SMD/830/E27 220-240V	13	820	30	3000	>80	0.9	35,000	No	E27
1050025	LED13/PAR30AL/SMD/840/E27 220-240V	13	840	30	4000	>80	0.9	35,000	No	E27
1050026	LED13/PAR30AL/SMD/865/E27 220-240V	13	860	30	6500	>80	0.9	35,000	No	E27
1050027	LED18/PAR38AL/SMD/830/E27 220-240V	18	1050	30	3000	>80	0.9	35,000	No	E27
1050028	LED18/PAR38AL/SMD/840/E27 220-240V	18	1070	30	4000	>80	0.9	35,000	No	E27
1050029	LED18/PAR38AL/SMD/865/E27 220-240V	18	1090	30	6500	>80	0.9	35,000	No	E27
Led PAR Reflector Series – Compaz (Dimmable)										
1050030	LED7D/PAR20AL/SMD/830/E27 220-240V	7	420	40	3000	>80	0.9	35,000	Yes	E27
1050031	LED7D/PAR20AL/SMD/840/E27 220-240V	7	430	40	4000	>80	0.9	35,000	Yes	E27
1050032	LED7D/PAR20AL/SMD/865/E27 220-240V	7	450	40	6500	>80	0.9	35,000	Yes	E27
1050033	LED11D/PAR30AL/SMD/830/E27 220-240V	11	720	30	3000	>80	0.9	35,000	Yes	E27
1050034	LED11D/PAR30AL/SMD/840/E27 220-240V	11	740	30	4000	>80	0.9	35,000	Yes	E27
1050035	LED11D/PAR30AL/SMD/865/E27 220-240V	11	760	30	6500	>80	0.9	35,000	Yes	E27
1050036	LED13D/PAR30AL/SMD/830/E27 220-240V	13	820	30	3000	>80	0.9	35,000	Yes	E27
1050037	LED13D/PAR30AL/SMD/840/E27 220-240V	13	840	30	4000	>80	0.9	35,000	Yes	E27
1050038	LED13D/PAR30AL/SMD/865/E27 220-240V	13	860	30	6500	>80	0.9	35,000	Yes	E27
1050039	LED18D/PAR38AL/SMD/830/E27 220-240V	18	1050	30	3000	>80	0.9	35,000	Yes	E27
1050040	LED18D/PAR38AL/SMD/840/E27 220-240V	18	1070	30	4000	>80	0.9	35,000	Yes	E27
1050041	LED18D/PAR38AL/SMD/865/E27 220-240V	18	1090	30	6500	>80	0.9	35,000	Yes	E27

¹Beam angle ±10%

²PAR with a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

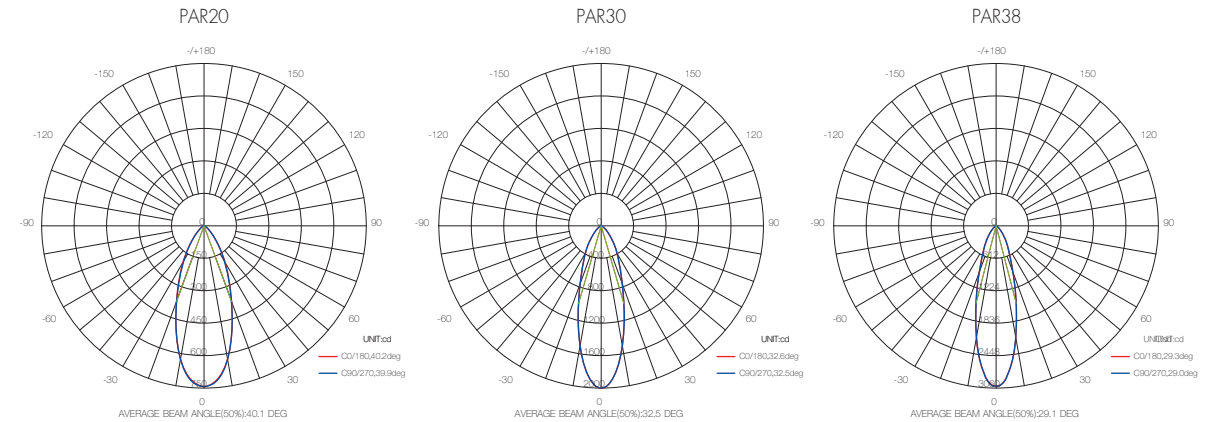
³According to LM-80 test report from LED manufacturer. Contact LeKise's representative for more information.

Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

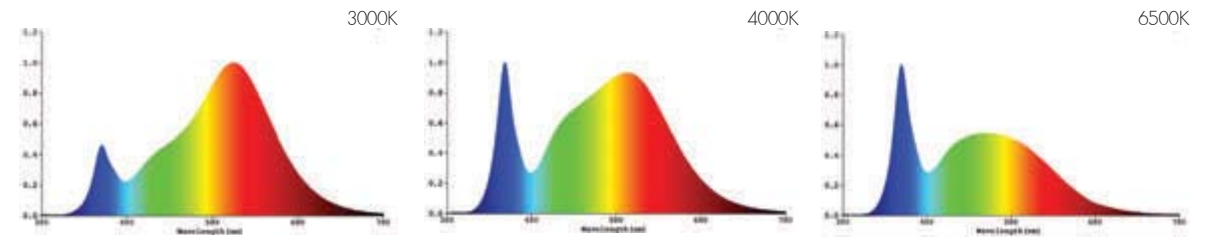
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the lamp:

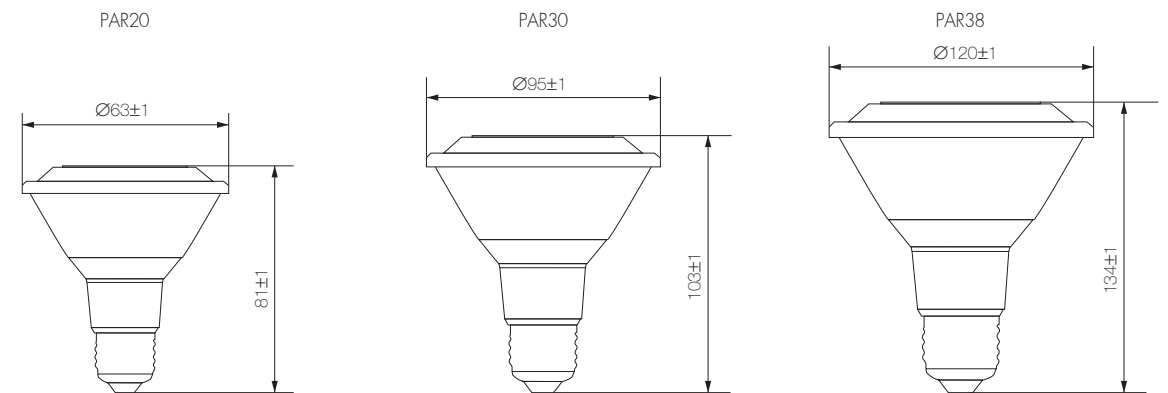


Spectral Power Distribution

The following images depict relative spectral power distribution characteristics of the lamp:



Drawing



CAUTION

1. Switch off the main supply before inspection and installation.
2. Store and use the lamps the same way as traditional lamps.
3. Suitable for voltage fluctuations of 220-240VAC ±10%.
4. Ambient temperature range -10 °C to 50 °C.
5. Indoor use only.
6. Please check the product description carefully in case of dimmable or non-dimmable lamps.

LED T8 QuickFIT™

LeKise LED T8 QuickFIT™ lamps are the innovative LED lamp in T8 shape with G13 base. They are the ideal energy saving choice that fit into existing linear fixtures. Come with the array of 3 different optical materials for preference; QuickFIT Glass, QuickFIT Guard and QuickFIT PC. No mercury allowing for non-hazardous waste disposal. LeKise LED T8 QuickFIT™ lamps are direct retrofit for linear fluorescent fixtures with G13 lamp holder and no re-wiring necessary for magnetic ballast system.



Features

- ✓ T8 shape with G13 base and integrated driver for easy installation.
- ✓ High luminous flux up to 100lm/W.
- ✓ Excellent light uniformity and unique heat dissipation technology.
- ✓ No dark spot on the edges of the lamp.
- ✓ 60% energy saving compared with LeKise T8 fluorescent and 40% compared with LeKise T5 fluorescent.
- ✓ Correlated color temperature: 3000K, 4000K, 6500K.
- ✓ Instant on, on flicker or buzz.

Applications

- ✓ Indoor lighting such as:
 - Supermarket
 - Underground parking lot
 - Office
 - Warehouse
- ✓ Signage lighting



Product Code	Product Description	Length (mm.)	Nominal Wattages	Lumen (lm)	CCT ¹ (K)	CRI (Ra)	Beam angle(°) ²	Base	Power Factor	Rated Avg. Life@L70 ³ (hrs)
LED T8 QuickFIT™ Glass										
1070001	LED9/T8G/600MM/I/730 200-240V	600	9	780	3000	≥70	>220	G13	>0.5	25,000
1070002	LED9/T8G/600MM/I/740 200-240V	600	9	790	4000	≥70	>220	G13	>0.5	25,000
1070003	LED9/T8G/600MM/I/765 200-240V	600	9	800	6500	≥70	>220	G13	>0.5	25,000
1070004	LED18/T8G/1200MM/I/730 200-240V	1200	18	1600	3000	≥70	>220	G13	>0.5	25,000
1070005	LED18/T8G/1200MM/I/740 200-240V	1200	18	1620	4000	≥70	>220	G13	>0.5	25,000
1070006	LED18/T8G/1200MM/I/765 200-240V	1200	18	1650	6500	≥70	>220	G13	>0.5	25,000
LED T8 QuickFIT™ Guard										
1070007	LED9/T8GP/600MM/I/830 200-240V	600	9	880	3000	≥80	>200	G13	>0.9	25,000
1070008	LED9/T8GP/600MM/I/840 200-240V	600	9	890	4000	≥80	>200	G13	>0.9	25,000
1070009	LED9/T8GP/600MM/I/865 200-240V	600	9	900	6500	≥80	>200	G13	>0.9	25,000
1070010	LED18/T8GP/1200MM/I/830 200-240V	1200	18	1750	3000	≥80	>200	G13	>0.9	25,000
1070011	LED18/T8GP/1200MM/I/840 200-240V	1200	18	1780	4000	≥80	>200	G13	>0.9	25,000
1070012	LED18/T8GP/1200MM/I/865 200-240V	1200	18	1800	6500	≥80	>200	G13	>0.9	25,000
LED T8 QuickFIT™ PC										
1070013	LED9/T8PC/600MM/I/830 200-240V	600	9	880	3000	≥80	>160	G13	>0.9	25,000
1070014	LED9/T8PC/600MM/I/840 200-240V	600	9	890	4000	≥80	>160	G13	>0.9	25,000
1070015	LED9/T8PC/600MM/I/865 200-240V	600	9	900	6500	≥80	>160	G13	>0.9	25,000
1070016	LED18/T8PC/1200MM/I/830 200-240V	1200	18	1750	3000	≥80	>160	G13	>0.9	25,000
1070017	LED18/T8PC/1200MM/I/840 200-240V	1200	18	1780	4000	≥80	>160	G13	>0.9	25,000
1070018	LED18/T8PC/1200MM/I/865 200-240V	1200	18	1800	6500	≥80	>160	G13	>0.9	25,000

¹T8 with a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

²Beam angle refer to side of the lamp. Angle ±10%.

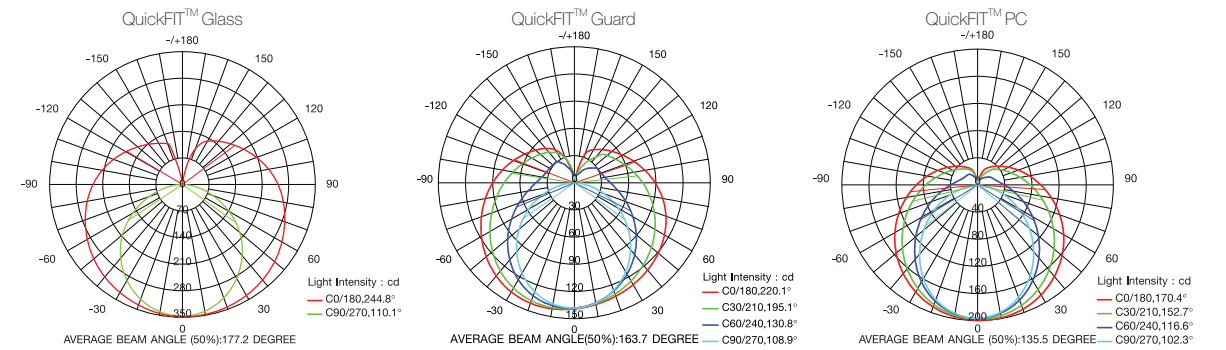
³Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

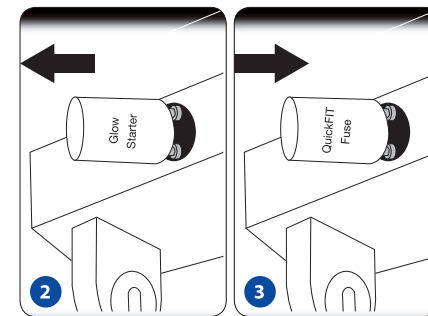
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:



Installation guideline

- 1 Turn off and remove conventional T8 fluorescent lamp.

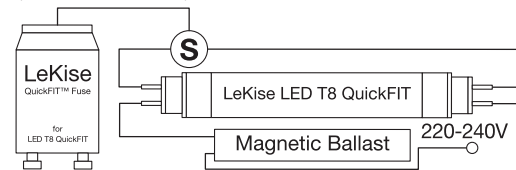


Remove starter and replace with QuickFIT fuse

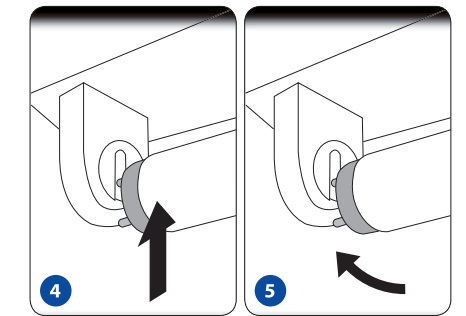
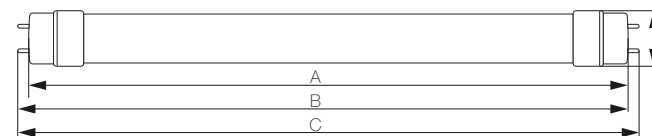
- 6 Turn on

Retrofit to fixture with electromagnetic ballast

Remove the starter (S) and replace it with the QuickFIT fuse provided with LED lamp



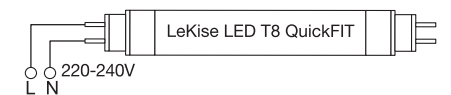
Drawing



Install LED T8 QuickFIT and rotate 90°

Retrofit to fixture with electronic ballast

Remove the electronic ballast and wire as shown in diagram



Dimension	LED T8 QuickFIT 600mm		LED T8 QuickFIT 1200mm	
	Min	Max	Min	Max
A		589.8		1199.4
B	594.5	596.9	1204.1	1206.5
C		604.0		1213.6
D		26.0		26.0

CAUTION

1. Turn power off before inspection, installation or removal.
2. Do not use excessive force when installing lamp.
3. LED T8 QuickFIT™ must not be damaged or operated in a damage condition.
4. When operating with magnetic ballast fixture, QuickFIT Fuse has to be inserted to replace conventional glow starter. If conventional glow starter is not replaced LED T8 QuickFIT will start blinking. Switch off immediately otherwise LED T8 QuickFIT™ can be damaged.
5. Follow LeKise LED T8 QuickFIT™ installation guideline before installing the lamp.
6. Do not use lamps in fixtures with worn sockets. Socket may not provide adequate support and lamp may fail.

LED T8 OVALINE™

LeKise LED T8 OVALINE™ lamps are the innovative LED lamp in T8 oval shape with G13 base. They are the ideal energy saving choice that fit into existing linear fixtures. Design for excellent thermal management with aluminium housing. No mercury allowing for non-hazardous waste disposal. NO UV or IR light radiation. LeKise LED T8 OVALINE™ lamps are direct retrofit for linear fluorescent fixtures with G13 lamp holder.



Features

- ✓ T8 oval shape with G13 base and integrated driver for easy installation.
- ✓ High luminous flux >100lm/W.
- ✓ Excellent light uniformity and unique heat dissipation technology.
- ✓ No dark spot on the edges of the lamp.
- ✓ 60% energy saving compared with LeKise T8 fluorescent and 40% compared with LeKise T5 fluorescent.
- ✓ Correlated color temperature: 3000, 4000, 6500K.
- ✓ Weight : 60CM are 200g ±10g
120CM are 345g ±10g

Applications

- ✓ Indoor lighting such as:
 - Supermarket
 - Underground parking lot
 - Office
 - Warehouse
- ✓ Signage lighting

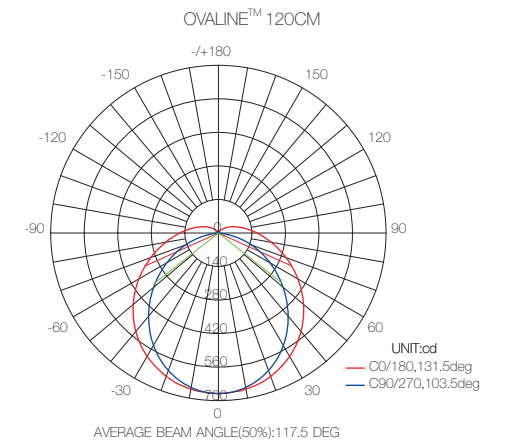
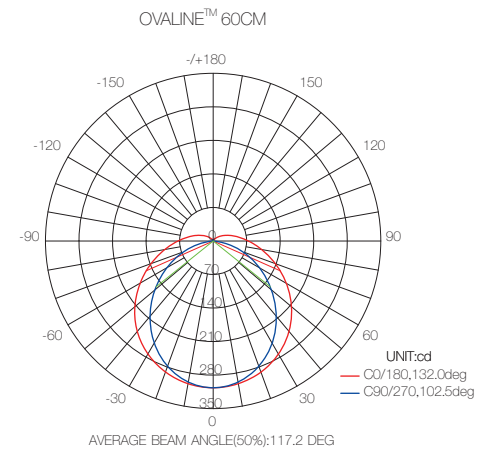


Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

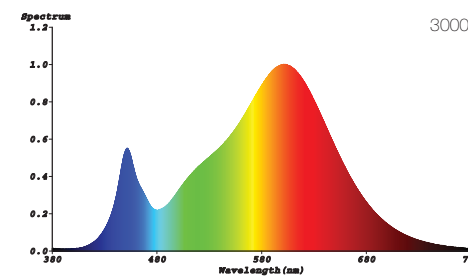
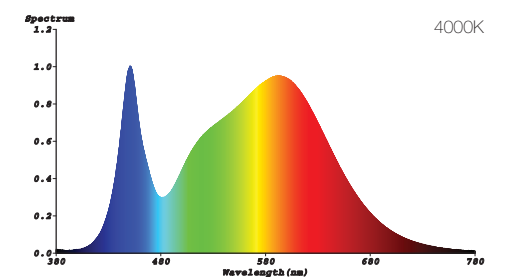
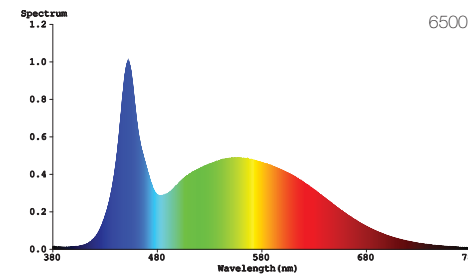
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the lamps:



Spectral Power Distribution

The following images depict the spectral power distribution characteristics of the lamps:



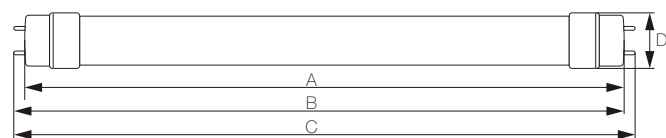
Product Code	Product Description	Length (mm.)	Nominal Wattages	Lumen (lm)	Nominal CCT ¹ (K)	CRI (Ra)	Beam angle ² (°)	THDi	Power Factor	Rated Avg. Life@L70 ³ (hrs)
LED T8 OVALINE™ Gold										
FG-PD-05-106	LED T8 OV 60CM 6500K	600	10	1000	6500	≥80	≥130	≤15	≥0.9	50,000
FG-PD-05-128	LED T8 OV 120CM 6500K	1200	20	2100	6500	≥80	≥130	≤15	≥0.9	50,000
LED T8 OVALINE™ Bronz										
FG-PD-05-124	LED T8 OV 60CM 6500K	600	10	800	6500	≥80	≥130	≤15	≥0.9	36,000
FG-PD-05-125	LED T8 OV 60CM 4000K	600	10	700	4000	≥80	≥130	≤15	≥0.9	36,000
FG-PD-05-126	LED T8 OV 60CM 3000K	1200	10	650	3000	≥80	≥130	≤15	≥0.9	36,000
FG-PD-05-121	LED T8 OV 120CM 6500K	1200	20	1800	6500	≥80	≥130	≤15	≥0.9	36,000
FG-PD-05-122	LED T8 OV 120CM 4000K	1200	20	1700	4000	≥80	≥130	≤15	≥0.9	36,000
FG-PD-05-123	LED T8 OV 120CM 3000K	1200	20	1600	3000	≥80	≥130	≤15	≥0.9	36,000

¹T8 with a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

²Beam angle refer to side of the lamp.

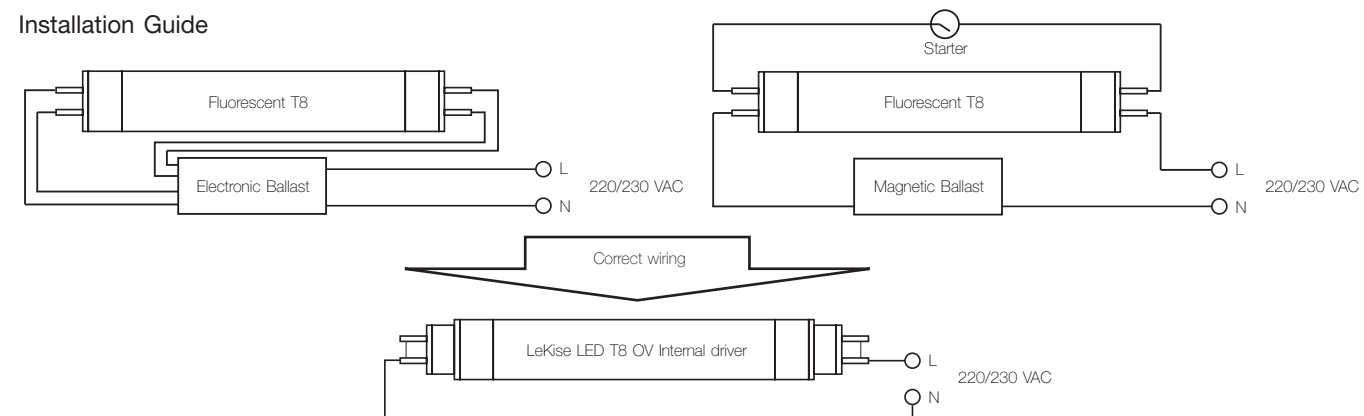
³Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Drawing



Dimension	LED T8 60CM	LED T8 120CM
A	589	1197
B	597	1205
C	604	1212
D	26	26

Installation Guide



CAUTION

1. Turn power off before inspection, installation or removal.
2. Do not use excessive force when installing lamp.
3. LED T8 OVALINE must not be damage or operated in a damage condition.
4. See diagram above for proper wiring information.

LED T8 DECLINE™

LeKise LED T8 DECLINE™ lamps are the innovative LED lamp in T8 end cap driver with G13 base. They are the ideal energy saving choice that fit into existing linear fixtures. Design for excellent thermal management with aluminium housing and given usable light angle more than 140 degree. No mercury allowing for non-hazardous waste disposal. NO UV or IR light radiation. LeKise LED T8 DECLINE™ lamps are direct retrofit for linear fluorescent fixtures with G13 lamp holder.



Features

- ✓ T8 shape with G13 base and integrated driver for easy installation.
- ✓ LED complies with the requirements of IEC62471.
- ✓ Excellent light uniformity and unique heat dissipation technology.
- ✓ No dark spot on the edges of the lamp.
- ✓ 60% energy saving compared with LeKise T8 fluorescent and 40% compared with LeKise T5 fluorescent.
- ✓ Correlated color temperature: 6500 ±500K.
- ✓ Instant on, on flicker or buzz.

Applications

- ✓ Indoor lighting such as:
 - Supermarket
 - Underground parking lot
 - Office
 - Warehouse
- ✓ Signage lighting



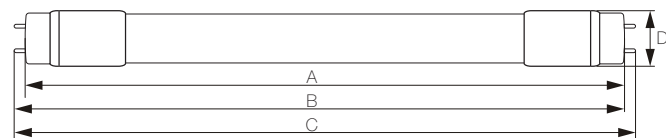
Product Code	Product Description	Length (mm.)	Nominal Wattages	Lumen (lm)	Nominal CCT ¹ (K)	CRI (Ra)	Beam angle ² (°)	THDi	Power Factor	Rated Avg. Life@L70 ³ (hrs)
LED T8 DECLINE™ Gold										
FG-PD-05-131	LED T8 DECLINE 60CM 6500K	600	10	1000	6500	≥80	>140	≤15	≥0.9	50,000
FG-PD-05-130	LED T8 DECLINE 120CM 6500K	1200	20	2100	6500	≥80	>140	≤15	≥0.9	50,000
LED T8 DECLINE™ Silver										
FG-PD-05-133	LED T8 DECLINE 60CM 6500K	600	10	900	6500	≥80	>140	≤15	≥0.9	36,000
FG-PD-05-132	LED T8 DECLINE 120CM 6500K	1200	20	1800	6500	≥80	>140	≤15	≥0.9	36,000
LED T8 DECLINE™ Bronz										
FG-PD-05-109	LED T8 DECLINE 60CM 6500K	600	10	800	6500	≥80	>140	≤15	≥0.9	36,000
FG-PD-05-108	LED T8 DECLINE 120CM 6500K	1200	20	1700	6500	≥80	>140	≤15	≥0.9	36,000

¹T8 with a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

²Beam angle refer to side of the lamp.

³Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Drawing



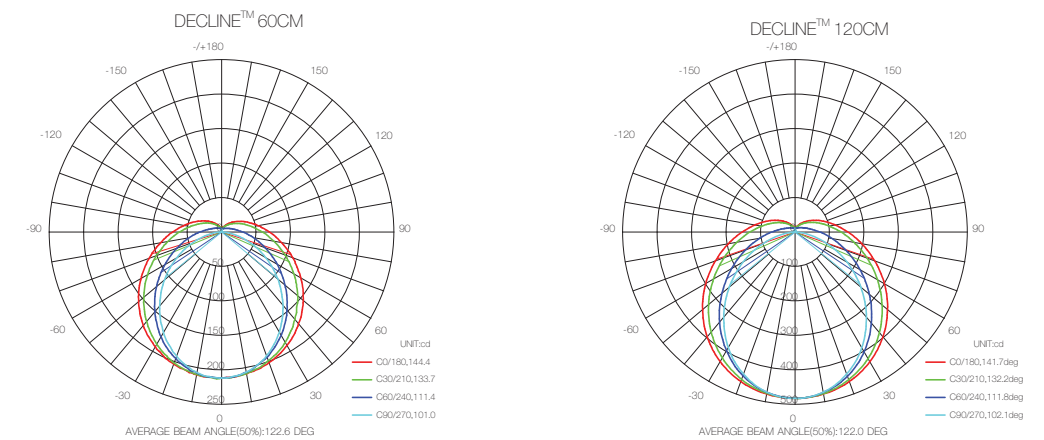
Dimension	LED T8 60CM	LED T8 120CM
A	589	1199
B	596	1206
C	604	1213
D	28	28

Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

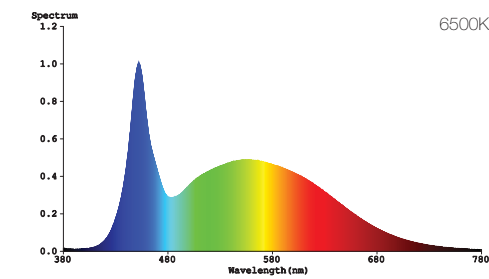
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the lamps:



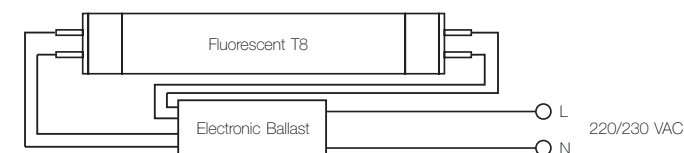
Spectral Power Distribution

The following images depict the spectral power distribution characteristics of the lamps:

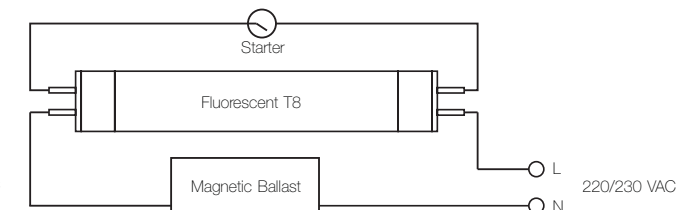


Installation Guide

T8 with electronic ballast wiring



T8 with magnetic ballast wiring



CAUTION

1. Turn power off before inspection, installation or removal.
2. Do not use excessive force when installing lamp.
3. LED T8 DECLINE must not be damage or operated in a damage condition.
4. Do not use lamps in fixtures with worn sockets. Socket may not provide adequate support and lamp may fail.

LED Recessed Downlight - VIVO™

LeKise Recessed Vivo Downlights are specially designed high performance lamps with excellent optical features and competitive costs. Vivo integrated led can easily replace the traditional lamp source making them easy for installation. Vivo downlights can save energy around 60-80% and has very high efficiency. They support long life span of 30,000 hours. Vivo engineering design protects with over-heat, over-current and over-load protection. Vivo 3W/7W/9W/15W can be easily used as replacement 13W/18W/26W CFL products.



Features

- ✓ Built with using Everlight SMD 5630 Led Chip.
- ✓ Integrated driver and lamp design with excellent heat dissipation.
- ✓ Long lifetime of more than 30,000 hours and CRI >80.
- ✓ No RF interference and with Anti-electromagnetic interference.
- ✓ Instant start, no flash, no abnormal noise.
- ✓ High-Efficiency with energy saving up to 60-80%.
- ✓ Convenient for installation and maintenance.
- ✓ Excellent uniform 3 color temperature options available.



Applications

- ✓ Hotels, conference and meeting rooms
- ✓ Factories and offices
- ✓ Commercial purpose including residential and institution buildings
- ✓ Schools, colleges and universities
- ✓ Hospitals
- ✓ Other lightings

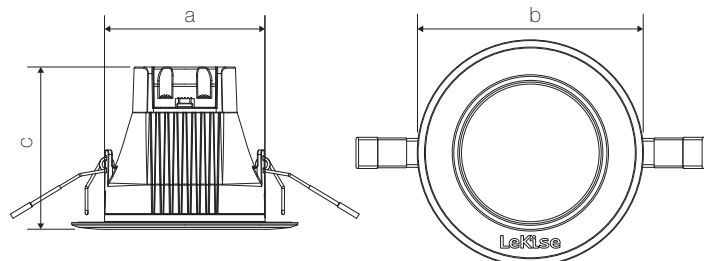


Product Code	Product Description	Power (W)	Current (A)	Lumen (lm)	CCT ¹ (K)	CRI (Ra)	Power Factor	Cut Out (mm)	Rated Avg. Life@L70 ² (hrs)
1060037	LED3/DL/VIVO/81//830/110/100-240V	3	0.18	180	3000	≥80	0.5	∅81	30,000
1060038	LED3/DL/VIVO/81//840/110/100-240V	3	0.18	200	4000	≥80	0.5	∅81	30,000
1060039	LED3/DL/VIVO/81//860/110/100-240V	3	0.18	210	6000	≥80	0.5	∅81	30,000
1060040	LED7/DL/VIVO/101//830/110/100-240V	7	0.24	420	3000	≥80	0.95	∅101	30,000
1060041	LED7/DL/VIVO/101//840/110/100-240V	7	0.24	470	4000	≥80	0.95	∅101	30,000
1060042	LED7/DL/VIVO/101//860/110/100-240V	7	0.24	490	6000	≥80	0.95	∅101	30,000
1060043	LED9/DL/VIVO/120//830/110/100-240V	9	0.24	630	3000	≥80	0.95	∅120	30,000
1060044	LED9/DL/VIVO/120//840/110/100-240V	9	0.24	700	4000	≥80	0.95	∅120	30,000
1060045	LED9/DL/VIVO/120//860/110/100-240V	9	0.24	720	6000	≥80	0.95	∅120	30,000
1060046	LED15/DL/VIVO/170//830/110/100-240V	15	0.24	1125	3000	≥80	0.95	∅170	30,000
1060047	LED15/DL/VIVO/170//840/110/100-240V	15	0.24	1260	4000	≥80	0.95	∅170	30,000
1060048	LED15/DL/VIVO/170//860/110/100-240V	15	0.24	1275	6000	≥80	0.95	∅170	30,000

¹With a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

²Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Drawing



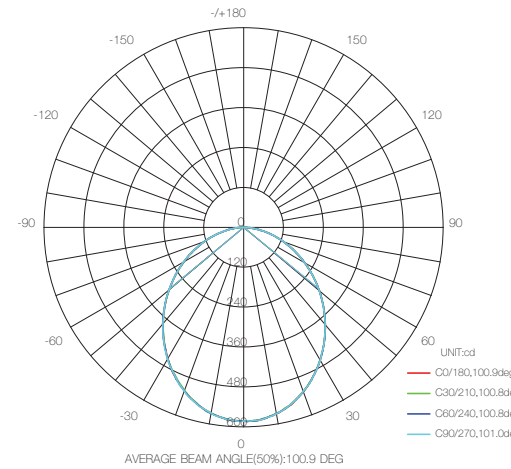
	a	b	c	Cut out
3W 2.5"	∅71mm	∅94mm	∅71.8mm	∅81mm
7W 3.5"	∅91mm	∅115mm	∅79.6mm	∅101mm
9W 4"	∅110mm	∅140mm	∅79.4mm	∅120mm
15W 6"	∅156mm	∅195mm	∅92mm	∅170mm

Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

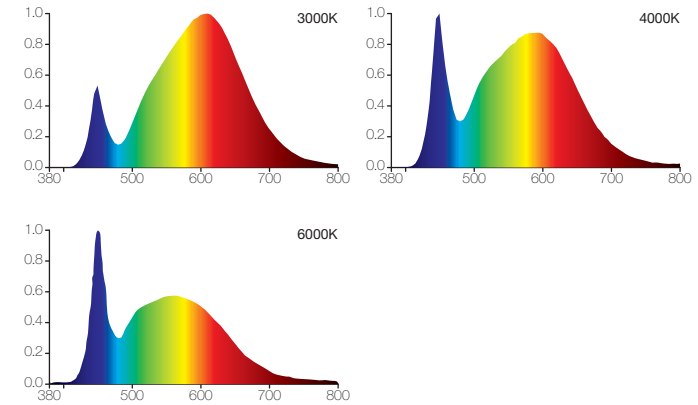
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:



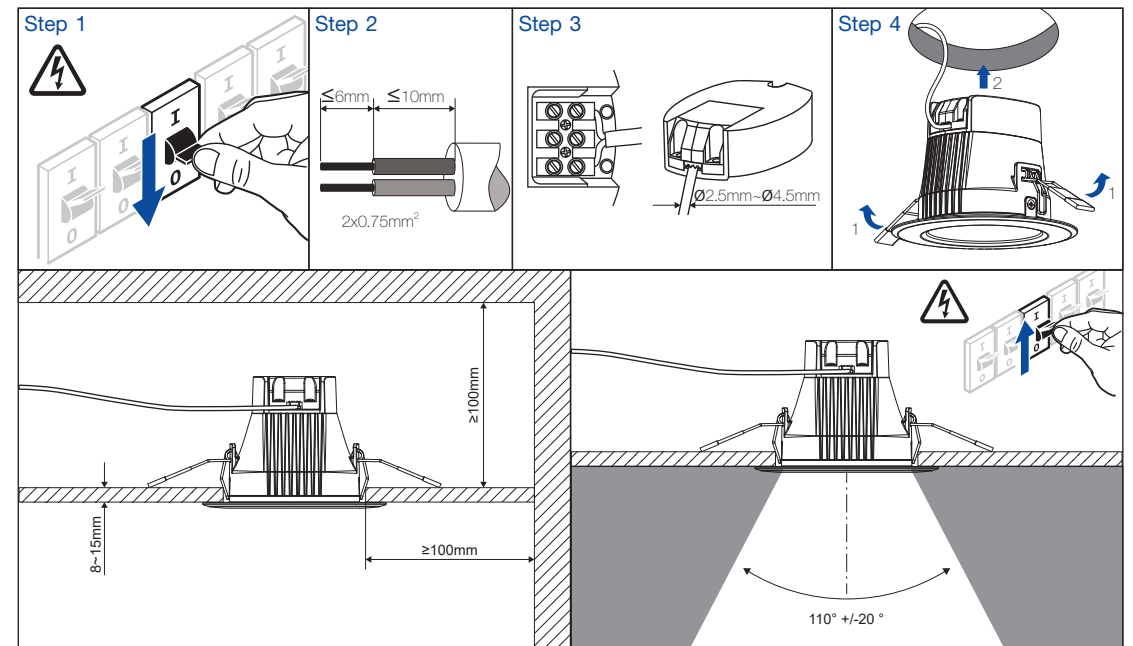
Spectral Power Distribution

The following images depict relative spectral power distribution characteristics of the luminaire:



Installation Guideline

1. Electrical appliances must only be connected by qualified Electrician.
2. Important! Before commencing installation work disconnect the mains cable from the power supply, always switch "OFF" the electricity supply at the mains. All fittings must be installed accordance with current IEE wiring regulations. If in doubt, consult a qualified electrician. The mains supply cable must be fixed before connecting with the lamp and do not use the cable to bear the loading.
3. This Lamp is suitable only for living accommodation premises and not for areas in which moisture-proofing is required.
4. This Lamp is suitable for installing on materials with normal flammability.
5. The installation shall be carried out by an electrician or electrically skilled person such that the basic insulated fixed wiring have to be prepared with supplementary insulation before the luminaire can be connected.
6. LED module is not replaceable.



CAUTION

1. In order to ensure proper operation, make sure to use the voltage under indicated range.
2. Please follow the correct way to install and use the product, cut off the electricity before installing or disassemble to prevent electric shock.
3. The product is not waterproof, indoor use only, and do not use it in the high humidity, or dusty environments.
4. The product is not suitable for working in frequent power-off situation, it will affect the life of the lamp;
5. Do not look directly into the LED light source for long time, high-intensity light source may cause eye injury.
6. Lamps operating temperature from -20°C to 45°C.
7. Not suitable for dimming.
8. Suitable for voltage fluctuations of 220-240VAC ±10%.

Led Slim Downlight – Ultraslim

LeKise Ultraslim downlight is the most versatile choice for indoor lighting solutions. LeKise Ultraslim downlights creates a far more pleasant, balanced and gentle illumination in comparison with other brand downlight products in the market. Ultraslim downlights reduces the need for an air sealed recessed housing or Fire-Rated boxes, reducing material and installation costs. Ultraslim downlight support very high burning hours of more than 35,000 hours. Ultraslim downlight body is made from aviation aluminum material with very good thermal management system. LeKise Ultraslim downlights are available in both Round and Square shape apertures for consumer and project markets.



Features

- ✓ Built with LM80 certified SMD 2835 chip.
- ✓ External Driver built with American Slivry IC technology.
- ✓ Aviation aluminum material with good thermal management.
- ✓ Light guide plate made with special PMMA grade material from Taiwan Qimei.
- ✓ Lifetime support of more than 35,000 hours.
- ✓ Easy installation with architecturally pleasing look.
- ✓ Choice of shape with square and round apertures.

Applications

- ✓ Residential application
- ✓ Factory and office
- ✓ Various hallways and corridor
- ✓ Basements, entry way, porches, stairway
- ✓ Conference and meeting room



Product Main Description	Input Voltage	Nom. Watts	CRI (Ra)	Initial Delivered Lumen			Beam Angle (°)	Rated Avg. Life@L70 ¹ (hrs)
				3000K	4000K	6500K		
Ultraslim								
LED3/DL	AC220-240V	3	≥80	120	130	150	110°	35,000
LED5/DL	AC220-240V	5	≥80	200	230	250	110°	35,000
LED7/DL	AC220-240V	7	≥80	300	330	350	110°	35,000
LED12/DL	AC220-240V	12	≥80	700	750	800	110°	35,000
LED18/DL	AC220-240V	18	≥80	1100	1190	1260	110°	35,000

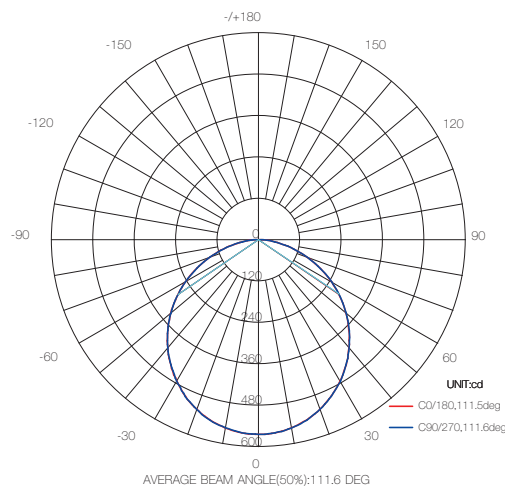
Corrected color temperature shall have the defined target CCT according to ANSI ANSLG C78.377-2011(table1)

¹Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

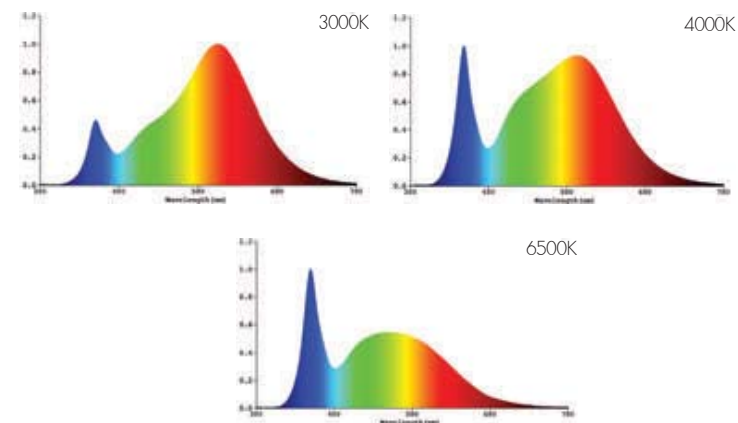
Photometric data

Below data for LED18/DL. Contact LeKise's representative for photometric information of each individual model.

Luminous Intensity Distribution



Spectral Power Distribution



Ordering Information

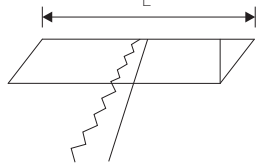
Product Code	Product Description	Product Code	Product Description
Ultraslim Round		Ultraslim Square	
1060049	LED3/DL/SLR/70/E/830/110/220-240V	1060064	LED3/DL/SLS/70/E/830/110/220-240V
1060050	LED3/DL/SLR/70/E/840/110/220-240V	1060065	LED3/DL/SLS/70/E/840/110/220-240V
1060051	LED3/DL/SLR/70/E/865/110/220-240V	1060066	LED3/DL/SLS/70/E/865/110/220-240V
1060052	LED5/DL/SLR/95/E/830/110/220-240V	1060067	LED5/DL/SLS/95/E/830/110/220-240V
1060053	LED5/DL/SLR/95/E/840/110/220-240V	1060068	LED5/DL/SLS/95/E/840/110/220-240V
1060054	LED5/DL/SLR/95/E/865/110/220-240V	1060069	LED5/DL/SLS/95/E/865/110/220-240V
1060055	LED7/DL/SLR/110/E/830/110/220-240V	1060070	LED7/DL/SLS/110/E/830/110/220-240V
1060056	LED7/DL/SLR/110/E/840/110/220-240V	1060071	LED7/DL/SLS/110/E/840/110/220-240V
1060057	LED7/DL/SLR/110/E/865/110/220-240V	1060072	LED7/DL/SLS/110/E/865/110/220-240V
1060058	LED12/DL/SLR/160/E/830/110/220-240V	1060073	LED12/DL/SLS/160/E/830/110/220-240V
1060059	LED12/DL/SLR/160/E/840/110/220-240V	1060074	LED12/DL/SLS/160/E/840/110/220-240V
1060060	LED12/DL/SLR/160/E/865/110/220-240V	1060075	LED12/DL/SLS/160/E/865/110/220-240V
1060061	LED18/DL/SLR/213/E/830/110/220-240V	1060076	LED18/DL/SLS/213/E/830/110/220-240V
1060062	LED18/DL/SLR/213/E/840/110/220-240V	1060078	LED18/DL/SLS/213/E/840/110/220-240V
1060063	LED18/DL/SLR/213/E/865/110/220-240V	1060079	LED18/DL/SLS/213/E/865/110/220-240V

Installation guide of Ultraslim Round

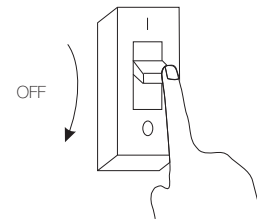
- 1** CUT A HOLE IN THE CEILING:
 2.5" cut diameter : Ø70-75mm
 3" cut diameter : Ø95-100mm
 4" cut diameter : Ø110-115mm
 6" cut diameter : Ø160-165mm
 8" cut diameter : Ø222-230mm
- 2** CUT OFF THE POWER.
- 3** CONNECT THE DRIVER TO ELECTRIC SUPPLY.
- 4** PUSH THE SPRINGS.
- 5** INSTALL THE DRIVER AND DOWNLIGHT INTO THE HOLE.
- 6** TURN ON THE POWER TO MAKE SURE THE DOWNLIGHT IS WELL INSTALLED.

Installation guide of Ultraslim Square

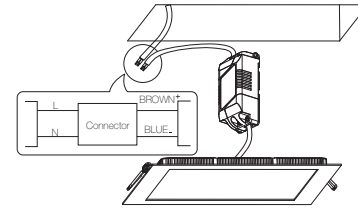
- 1** CUT A HOLE IN THE CEILING:
 2.5" cut hole : 70x70mm
 3" cut hole : 93x93mm
 4" cut hole : 107x107mm
 6" cut hole : 162x162mm
 8" cut hole : 213x213mm



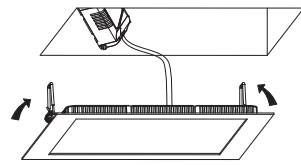
- 2** CUT OFF THE POWER.



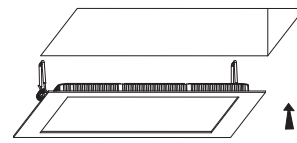
- 3** CONNECT THE DRIVER TO ELECTRIC SUPPLY.



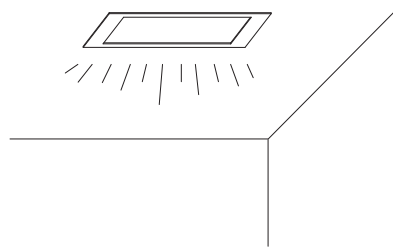
- 4** PUSH THE SPRINGS.



- 5** INSTALL THE DRIVER AND DOWNLIGHT INTO THE HOLE.



- 6** TURN ON THE POWER TO MAKE SURE THE DOWNLIGHT IS WELL INSTALLED.



Attention

1. Cut off the power before installing.
2. Do not cover the light with thermal insulation material.
3. For indoor use only.

Warning

1. In order to ensure proper operation, make sure that the voltage indicated range use;
2. Please follow the correct way to install and use the product, cut off the electricity before installing or disassemble to prevent electric shock
3. The product is not waterproof, indoor use only, and do not use it in the high humidity, or dusty environments.
4. The product is not suitable to working in frequent power-off situation, it will affect the life of the lamp.
5. Do not look directly into the LED light source for long time, high-intensity light source may cause eye injury.
6. Lamps operating temperature from -20°C to 55°C.
7. Not suitable for dimming.
8. Suitable for voltage fluctuations of 220-240VAC ±10%.



LED Downlight - LUXE HM™

LeKise LUXE HM Series Led Downlights is designed to capture market with high performance using dominant and excellent optical features along with competitive costs. LUXE HM have improved heat conduction rate adopting high tensile die casting aviation aluminum shell. The high reflective PC deep cavity reflector make efficient use of light that is possible to escape through this unique optical design and can emit more accurate light distribution and with excellent uniformity. LUXE HM offers high reliability and longer lifer span with lower maintenance and high efficiency.



Features

- ✓ Built with SMD 5630 LG led chip.
- ✓ High reflective PC with deep cavity reflector and optical PMMA diffusion shell.
- ✓ Life span of 30,000 hours offering increased lifetime.
- ✓ Varied appearance and rapid heat distribution.
- ✓ No infrared ray, No ultra violet ray and no mercury pollutions.
- ✓ Patent V type heat dissipation design increases air convection.
- ✓ Snap with heat shrinkable sleeve and also supports easy installation.
- ✓ Twin core cable for safety and prevents electric shocks.

Applications

- ✓ Home lighting
- ✓ Retail lighting
- ✓ Hotels
- ✓ Restaurants
- ✓ Corridors, hallways



Product Code	Product Description	Nom. Watts	Initial Lumen(lm)	CRI (Ra)	CCT (K) ¹	Beam Angle ² (°)	Diameter (mm)	Height (mm)	Cut Hole Size (mm)	Rated Avg. Life@L70 ³ (hrs)
LUXE HM™										
1060001	LED5/DL/LXM/80/E/830/75/220-240V	5	330	≥80	3000	75°	90	47	80	30,000
1060002	LED5/DL/LXM/80/E/840/75/220-240V	5	370	≥80	4000	75°	90	47	80	30,000
1060003	LED5/DL/LXM/80/E/865/75/220-240V	5	400	≥80	6500	75°	90	47	80	30,000
1060004	LED6/DL/LXM/100/E/830/75/220-240V	6	420	≥80	3000	75°	110	60	100	30,000
1060005	LED6/DL/LXM/100/E/840/75/220-240V	6	480	≥80	4000	75°	110	60	100	30,000
1060006	LED6/DL/LXM/100/E/865/75/220-240V	6	520	≥80	6500	75°	110	60	100	30,000
1060007	LED9/DL/LXM/120/E/830/80/220-240V	9	700	≥80	3000	80°	130	72	120	30,000
1060008	LED9/DL/LXM/120/E/840/80/220-240V	9	800	≥80	4000	80°	130	72	120	30,000
1060009	LED9/DL/LXM/120/E/865/80/220-240V	9	850	≥80	6500	80°	130	72	120	30,000
1060010	LED14/DL/LXM/175/E/830/80/220-240V	14	1100	≥80	3000	80°	185	94	175	30,000
1060011	LED14/DL/LXM/175/E/840/80/220-240V	14	1200	≥80	4000	80°	185	94	175	30,000
1060012	LED14/DL/LXM/175/E/865/80/220-240V	14	1400	≥80	6500	80°	185	94	175	30,000
1060013	LED29/DL/LXM/210/E/830/80/220-240V	29	2300	≥80	3000	80°	220	116	210	30,000
1060014	LED29/DL/LXM/210/E/840/80/220-240V	29	2500	≥80	4000	80°	220	116	210	30,000
1060015	LED29/DL/LXM/210/E/865/80/220-240V	29	2700	≥80	6500	80°	220	116	210	30,000
1060016	LED42/DL/LXM/210/E/830/80/220-240V	42	3300	≥80	3000	80°	220	116	210	30,000
1060017	LED42/DL/LXM/210/E/840/80/220-240V	42	3700	≥80	4000	80°	220	116	210	30,000
1060018	LED42/DL/LXM/210/E/865/80/220-240V	42	4200	≥80	6500	80°	220	116	210	30,000

¹With a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

²Minimum angle is 70 degree.

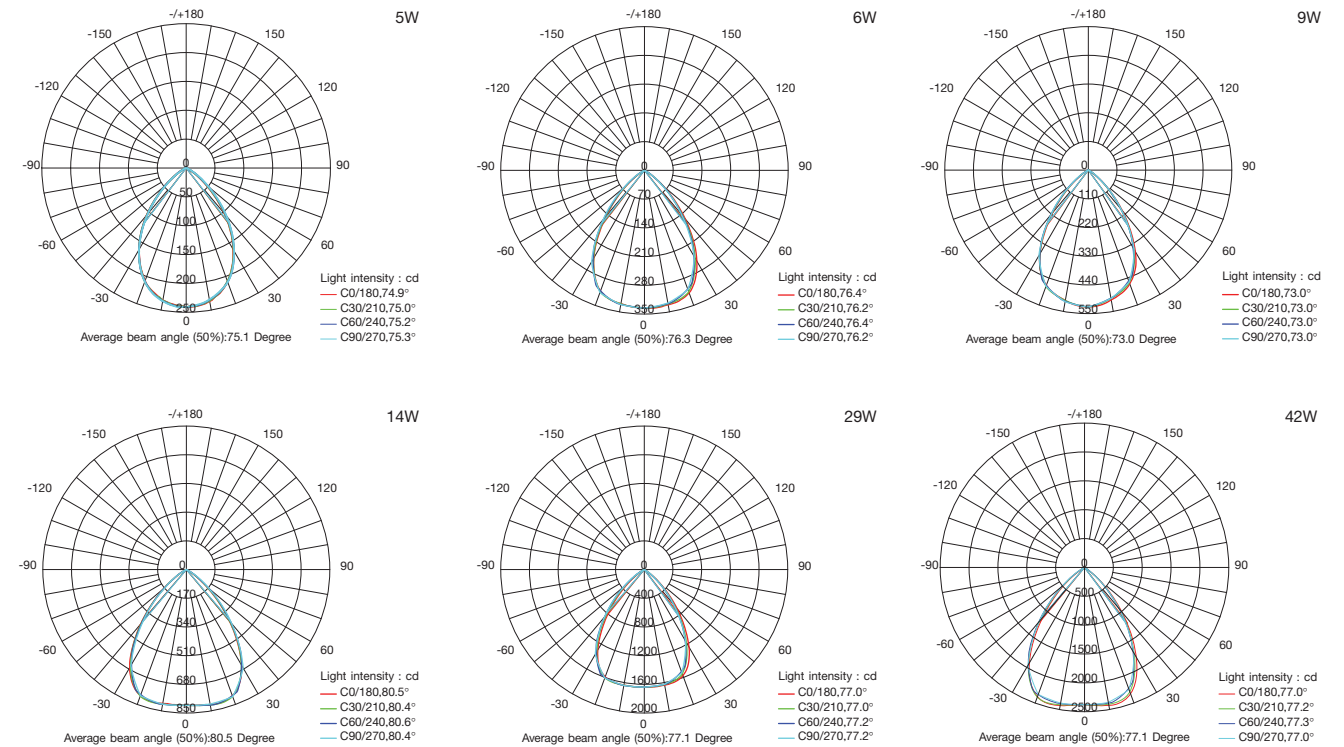
³Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

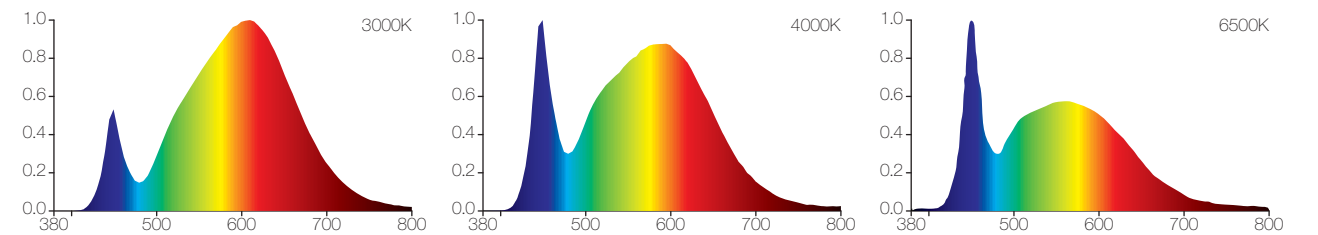
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:

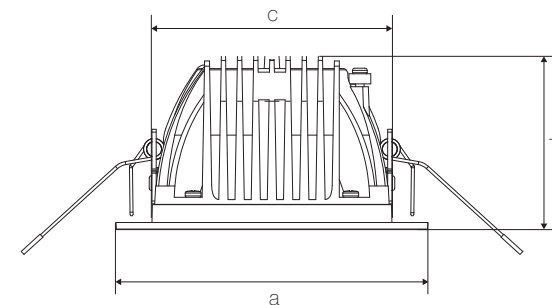


Spectral Power Distribution

The following images depict relative spectral power distribution characteristics of the luminaire:



Drawing



For dimension informations, please refer to LUXE HM specification table.

a = Diameter

b = Height

c = Cut size

Product Features



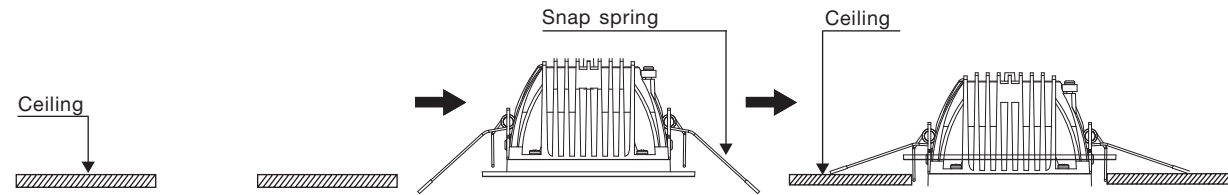
Specification

Nom. Watts	Input Voltage	Frequency	Rated Power	Rated Current	Power Factor	Light Source	Beam Angle (°)	Dimension (mm)	Cutout Hole (mm)	Life Time (hr)
LUXE HM™										
5	220-240V	50/60Hz	5W(8x0.5W/LEDemitters)	0.05A	0.70	LED	75	Ø90xH46.7	Ø82±2	30,000
6	220-240V	50/60Hz	6W(11x0.5W/LEDemitters)	0.05A	0.70	LED	75	Ø110xH61.7	Ø100±2	30,000
9	220-240V	50/60Hz	9W(16x0.5W/LEDemitters)	0.07A	0.70	LED	80	Ø130xH69.5	Ø120±2	30,000
14	220-240V	50/60Hz	14W(27x0.5W/LEDemitters)	0.09A	0.80	LED	80	Ø185xH90.3	Ø175±2	30,000
29	220-240V	50/60Hz	29W(54x0.5W/LEDemitters)	0.14A	0.95	LED	80	Ø220xH113.3	Ø210±2	30,000
42	220-240V	50/60Hz	42W(80x0.5W/LEDemitters)	0.21A	0.95	LED	80	Ø220xH113.3	Ø210±2	30,000

Warning

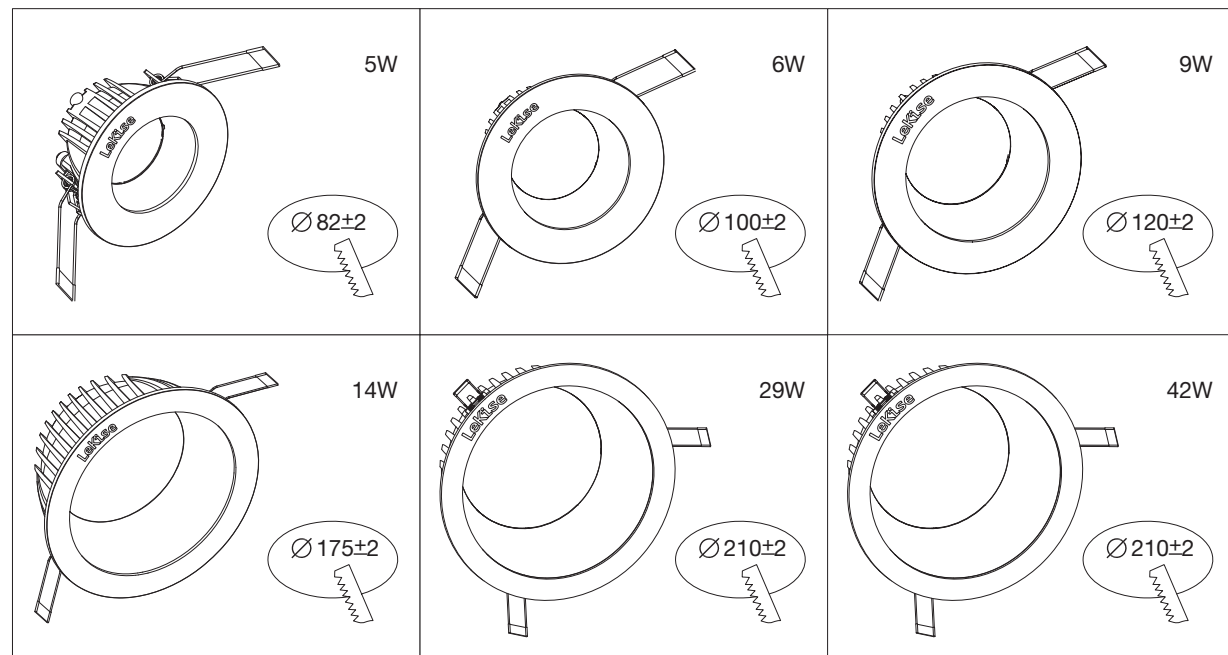
1. Please do the installation according to the manual. Any wrong installation may cause the accident like falling or electric shock.
2. LED lights should be installed in the firm ceiling.
3. LED lamp can never be covered by any heat insulation materials or other similar ones.
4. Please ask the service man to do the installation. The wire connection should comply with IEEE standards.
5. Non-Dimmable, not performing with the dimmer.
6. The input voltage is AC220-240V (±10%) and frequency is 50/60Hz. The higher input voltage may cause the damage as for overheat
7. Hot Plug-in is forbidden, LED lamp body should always perform with LED driver
8. If the outside flexible cable or wire of this lamp is damaged, replacement should be implemented by the manufactory or service agency or qualified person to avoid danger.

Main Parts Installation



1. Please drill the hole at the cutout size shown on manual.
2. Please open the cover of LED driver and take off the test wire. Then connect your own wires with LED driver correctly (connecting Live with L, Neutral with N) Finally, do remember to close the cover.
3. Please hold snap springs in the correct direction indicated here while inserting the lamp to the hole.
4. Please adjust the lamp in the middle and cover the hole entirely.

Product Drawing



LED T5 BATLINE™

LeKise LED T5 BATLINE™ is compact structure and the short-cap batten eliminating dark areas when joining end-to-end. BATLINE™ is made of high quality materials and offers the equivalent performance as T5 fluorescent batten and up to 30% lower energy consumption. LED T5 BATLINE™ is integrated driver design makes easy installation and available in three color temperatures in warmwhite, coolwhite and daylight. The range includes various lengths to mix and match for various applications such as coves, bench tops, under cupboard and display spaces. LED T5 BATLINE™ is T5 replaceable solution without compromise.



Features

- ✓ 2835 SMD Chip with LM80 certified.
- ✓ Body and diffuser cover made by Mitsubishi® PC material.
- ✓ Optimized extruded Aluminum heat sink inside to ensure proper working environment, also gives highly efficient reflection.
- ✓ Color temperatures available for 3000K, 4000K and 6500K.
- ✓ High efficacy up to 80lm/W with CRI >80.
- ✓ Support within 10 pcs. in series connection to lower wiring cost.
- ✓ Long life up to 35,000 hrs. with 2 year limited warranty.

Applications

- ✓ Showroom
- ✓ Shelf
- ✓ Cove
- ✓ Convenient Stores



Product Code	Product Description	Nominal Wattages	Operating Voltage(V)	Lumen (lm)	Beam angle(°)	CCT (K) ¹	CRI (Ra)	Power Factor	Rated Avg. Life@L70 ² (hrs)	
LED T5 BATLINE™										
1080001	LED5/T5BAT/300MM/L/830 100-240V	5	110-240	400	110-120	3000	>80	>0.9	35,000	
1080002	LED5/T5BAT/300MM/L/840 100-240V	5	110-240	420	110-120	4000	>80	>0.9	35,000	
1080003	LED5/T5BAT/300MM/L/865 100-240V	5	110-240	440	110-120	6500	>80	>0.9	35,000	
1080004	LED10/T5BAT/600MM/L/830 100-240V	10	110-240	800	110-120	3000	>80	>0.9	35,000	
1080005	LED10/T5BAT/600MM/L/840 100-240V	10	110-240	840	110-120	4000	>80	>0.9	35,000	
1080006	LED10/T5BAT/600MM/L/865 100-240V	10	110-240	880	110-120	6500	>80	>0.9	35,000	
1080007	LED15/T5BAT/900MM/L/830 100-240V	15	110-240	1200	110-120	3000	>80	>0.9	35,000	
1080008	LED15/T5BAT/900MM/L/840 100-240V	15	110-240	1250	110-120	4000	>80	>0.9	35,000	
1080009	LED15/T5BAT/900MM/L/865 100-240V	15	110-240	1300	110-120	6500	>80	>0.9	35,000	
1080010	LED20/T5BAT/1200MM/L/830 100-240V	20	110-240	1600	110-120	3000	>80	>0.9	35,000	
1080011	LED20/T5BAT/1200MM/L/840 100-240V	20	110-240	1650	110-120	4000	>80	>0.9	35,000	
1080012	LED20/T5BAT/1200MM/L/865 100-240V	20	110-240	1700	110-120	6500	>80	>0.9	35,000	

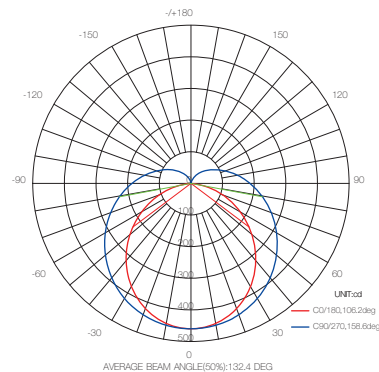
¹Nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

²Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

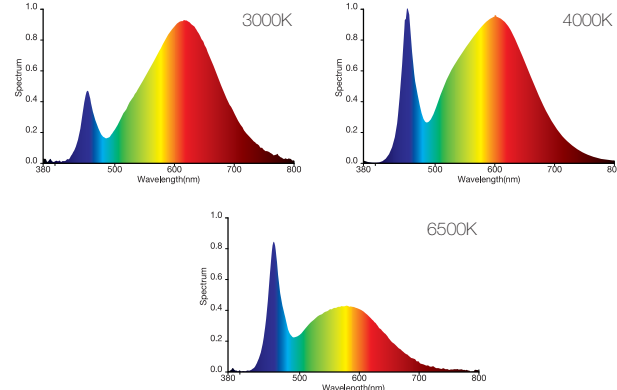
Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

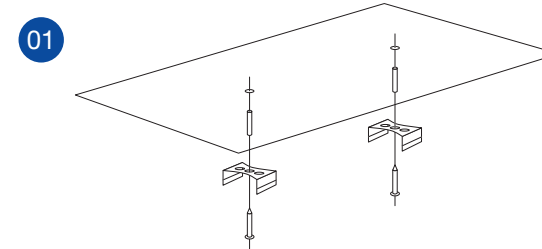
Luminous Intensity Distribution



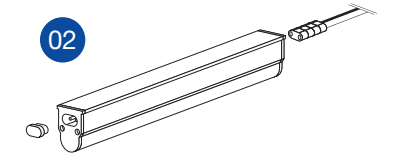
Spectral Power Distribution



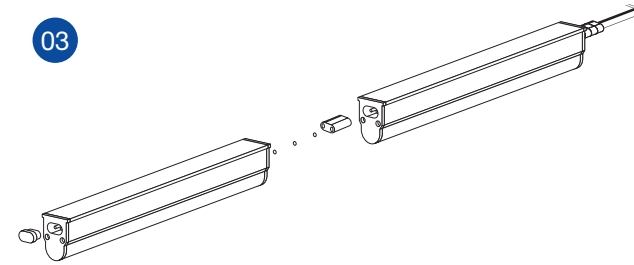
Installation Guideline



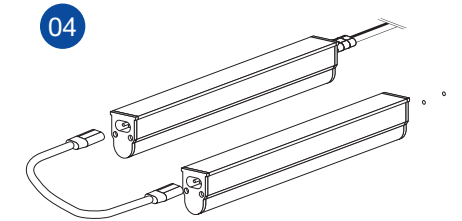
In case of installation on the ceiling, screw Aluminum base pin onto the ceiling.



Connect using 2-Pin Extension from Output AC 220-240V.



Interconnect T5 BATLINE using Connector Link & can connect upto 10 x T5 BATLINE in series.

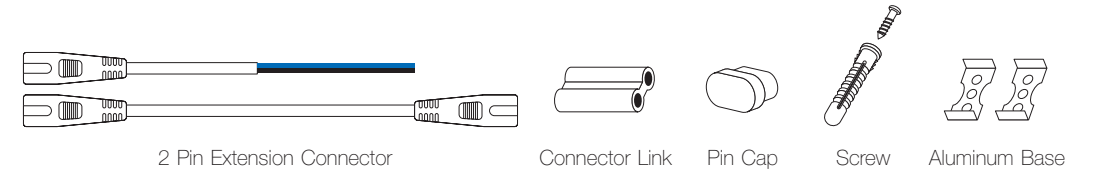


Can use 2-Pin Extension to connect up to 10 x T5 BATLINE in series.

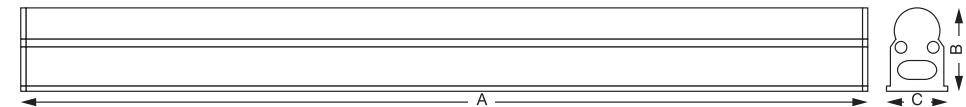


Switch on for T5 BATLINE experience.

Installation Accessories



Drawing



Dimension	LED T5 BATLINE 300MM	LED T5 BATLINE 600MM	LED T5 BATLINE 1200MM
A	325	585	1185
B	32	32	32
C	23.5	23.5	23.5

CAUTION

1. Please read the manual carefully before using the product.
2. The recommended maximum number of battens linked together is ten.
3. Maximum current of power cable : 2A.
4. Do not use the product in outdoor environment.
5. The product is suitable for ceiling, wall mounting and cove.
6. Do not use in supply voltage exceeding 100-240V ±10% for extended periods.
7. Do not touch the lamp when the power is switched on or few minutes after switching off.
8. Do not place readily flammable material near the fitting.

LED Batten - F5 BATLINE PRO™

LeKise F5 BATLINE PRO is designed as perfect replacements for conventional twin tube luminaires and industrial battens. They are the most ideal direct replacements for conventional battens with energy savings more than 50%¹ without any compromise on light performance. LeKise offers F5 BATLINE PRO with both ceiling and suspended installation methods and is very easy to install. F5 BATLINE PRO is designed with isolated power supply which ensures power protection features such as protection for over temperature, over current and overload. F5 BATLINE PRO is focused more on reliability, performance and uniform light distribution emitting super uniform and soft light. LeKise F5 BATLINE PRO body is made with high quality injection end cap with fireproof PC material.



Features

- ✓ Build with high quality SMD 5630 chip giving light output of 100lm/W.
- ✓ Aluminum body with high quality injection end cap using fireproof PC material.
- ✓ Optical PC cover with high transmittance of more than 85% offering super uniform and soft light.
- ✓ Lifetime support of more than 50,000 hours.
- ✓ Integrated non-isolated Class II driver for safe and reliable efficiency reaching 92% and PF>0.9.
- ✓ Protection features for over temperature, over current and overload.
- ✓ Ideal replacement for 2x28W T5 and 2x36W T8 Indoor Batten.
- ✓ Instant Light up, No flash and eye protection safety.
- ✓ Available in both suspended and ceiling type installations.

Applications

- ✓ Supermarket
- ✓ Conference /Meeting room
- ✓ Underground Garage, Home and display center
- ✓ Factories and Offices.
- ✓ Various Commercial Luminaire application
- ✓ Residential /Institution building
- ✓ School, College and University
- ✓ Hospital



Product Code	Product Description	Nom. Watts	Initial Lumen(lm)	CCT ² (K)	CRI (Ra)	Beam ³ Angle(°)	Dimension L	Dimension W	Dimension H	Power Factor	Rated Avg. ⁴ Life(hrs.)
1080013	LED40/F5BAT/1200MM/A/830 220-240V	40	3500	3000	≥85	120	1200	45	45	>0.9	50,000
1080014	LED40/F5BAT/1200MM/A/840 220-240V	40	3600	4000	≥85	120	1200	45	45	>0.9	50,000
1080015	LED40/F5BAT/1200MM/A/865 220-240V	40	3800	6500	≥85	120	1200	45	45	>0.9	50,000

¹Comparison with conventional fluorescent twin tube luminaires

²With a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

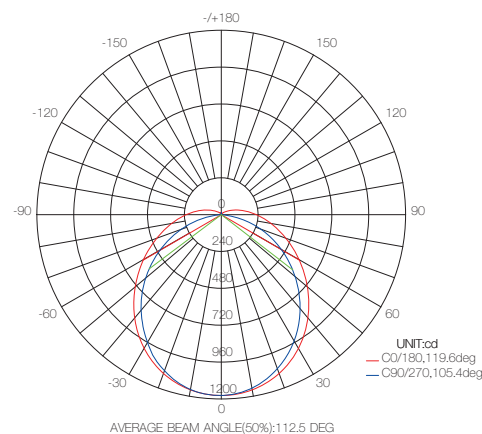
³Beam angle refer to side of the lamp(CO/C180). Minimum angle is 115 degree.

⁴Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

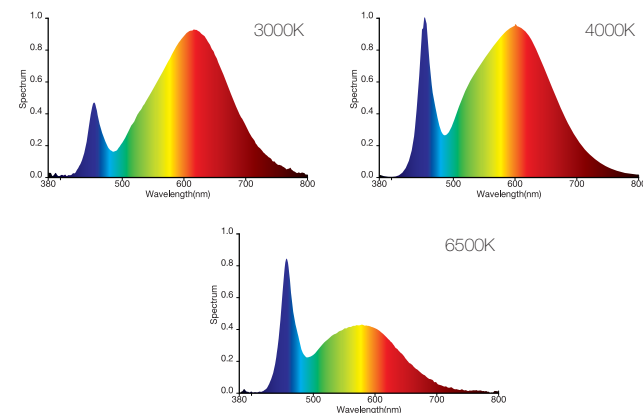
Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

Luminous Intensity Distribution

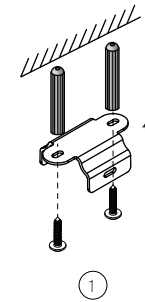


Spectral Power Distribution

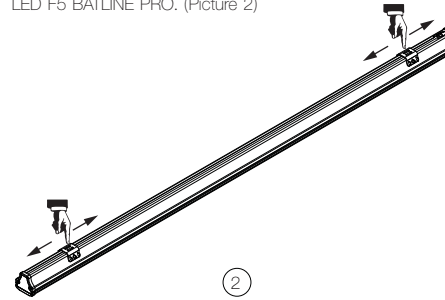


Installation Guideline (Ceiling)

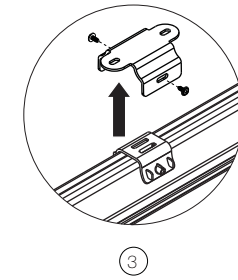
1. Fix the fittings on the ceiling board. (Picture 1)



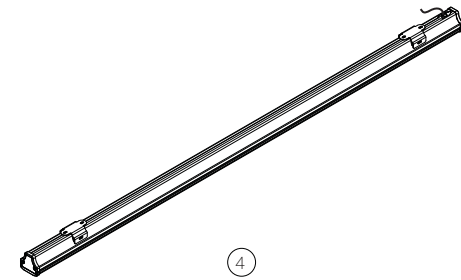
2. Adjusting the location about the fittings on LED F5 BATLINE PRO. (Picture 2)



3. Fix the the LED F5 BATLINE PRO into the fittings with screws. (Picture 3)

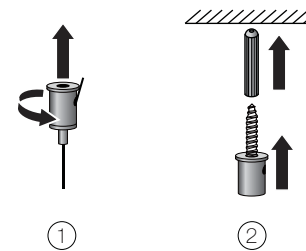


4. Connect the input end of power supply to AC, finishing the installation. (Picture 4)

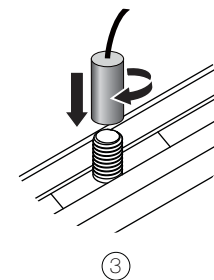


Installation Guideline (Suspended)

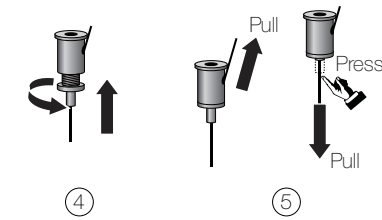
1. Take off the socket of metal line, and fix it on the ceiling board. (Picture 1 & 2)



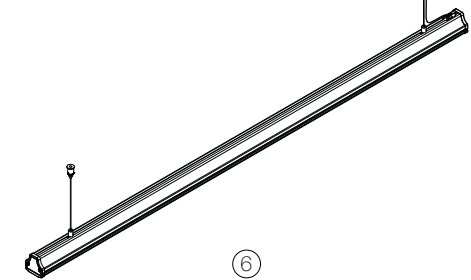
2. Fix the metal line on the LED F5 BATLINE PRO. (Picture 3)



3. Fix the metal line on the socket, and adjusting The length of the metal line. (Picture 4 & 5)



4. Connect the input end of power supply to AC, finishing the installation. (Picture 6)



CAUTION

1. In order to ensure proper operation, make sure to use the voltage under indicated range.
2. Please follow the correct way to install and use the product, cut off the electricity before installing or disassemble to prevent electric shock.
3. The product is not waterproof, indoor use only, and do not use it in the high humidity, or dusty environments.
4. The product is not suitable to working in frequent power-off situation; it will affect the life of the lamp;
5. Do not look directly into the LED light source for long time, high-intensity light source may cause eye injury.
6. Lamps operating temperature from -20°C to 45°C.
7. Not suitable for dimming.

LED Batten - F6 BATLINE PRO™

LeKise F6 BATLINE PRO are designed as perfect replacements for conventional twin tube luminaires and industrial battens. They are the most ideal direct replacements for conventional battens with energy savings more than 50%¹ without any compromise on light performance. LeKise offers F6 BATLINE PRO with both Ceiling and Suspended installation methods and is very easy to install. F6 BATLINE PRO is designed with isolated power supply which ensures power protection features such as protection for over temperature, over current and overload. F6 BATLINE PRO is focused more on reliability, performance and uniform light distribution emitting super uniform and soft light. LeKise F6 BATLINE PRO body is made with high quality injection end cap with fireproof PC material.



Features

- ✓ Build with high quality SMD 3030 Nichia chip giving light output of 100lm/W.
- ✓ Aluminum body with high quality injection end cap using fireproof PC material.
- ✓ Optical PC cover with high transmittance of more than 85% offering super uniform and soft light.
- ✓ Protection features for over temperature, over current and overload.
- ✓ Ideal replacement for 2x28W T5 and 2x36W T8 Indoor Batten.
- ✓ Instant Light up, No Flash and eye protection safety.
- ✓ Available in both Suspended and ceiling type installations.

Applications

- ✓ Supermarkets.
- ✓ Conference /Meeting rooms.
- ✓ Underground Garage, Home and display centers.
- ✓ Factories and Offices.
- ✓ Various Commercial Luminaire applications.
- ✓ Residential /Institution buildings.
- ✓ Schools, Colleges and Universities.
- ✓ Hospitals.



Product Code	Product Description	Nom. Watts	Initial Lumen(lm)	CCT ² (K)	CRI (Ra)	Beam ³ Angle(°)	Dimension			Power Factor	Rated Avg. ⁴ Life(hrs.)
							L	W	H		
LED F6 Batline Pro™											
1080016	LED20/F6BAT/1200MM/A/830 220-240V	20	1900	3000	≥85	120	1200	45	52	>0.9	50,000
1080017	LED20/F6BAT/1200MM/A/840 220-240V	20	1950	4000	≥85	120	1200	45	52	>0.9	50,000
1080018	LED20/F6BAT/1200MM/A/865 220-240V	20	2000	6500	≥85	120	1200	45	52	>0.9	50,000
1080019	LED40/F6BAT/1200MM/A/830 220-240V	40	3800	3000	≥85	120	1200	45	52	>0.9	50,000
1080020	LED40/F6BAT/1200MM/A/840 220-240V	40	3900	4000	≥85	120	1200	45	52	>0.9	50,000
1080021	LED40/F6BAT/1200MM/A/865 220-240V	40	4000	6500	≥85	120	1200	45	52	>0.9	50,000

¹Comparison with conventional fluorescent twin tube luminaires

²Nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

³Beam angle refer to side of the lamp(CO/C180). Minimum angle is 115 degree.

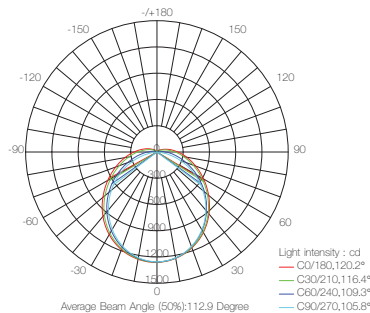
⁴Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

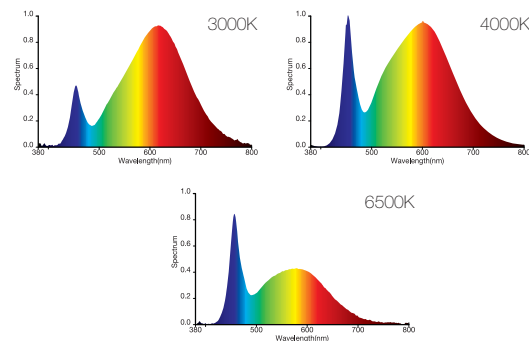
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:

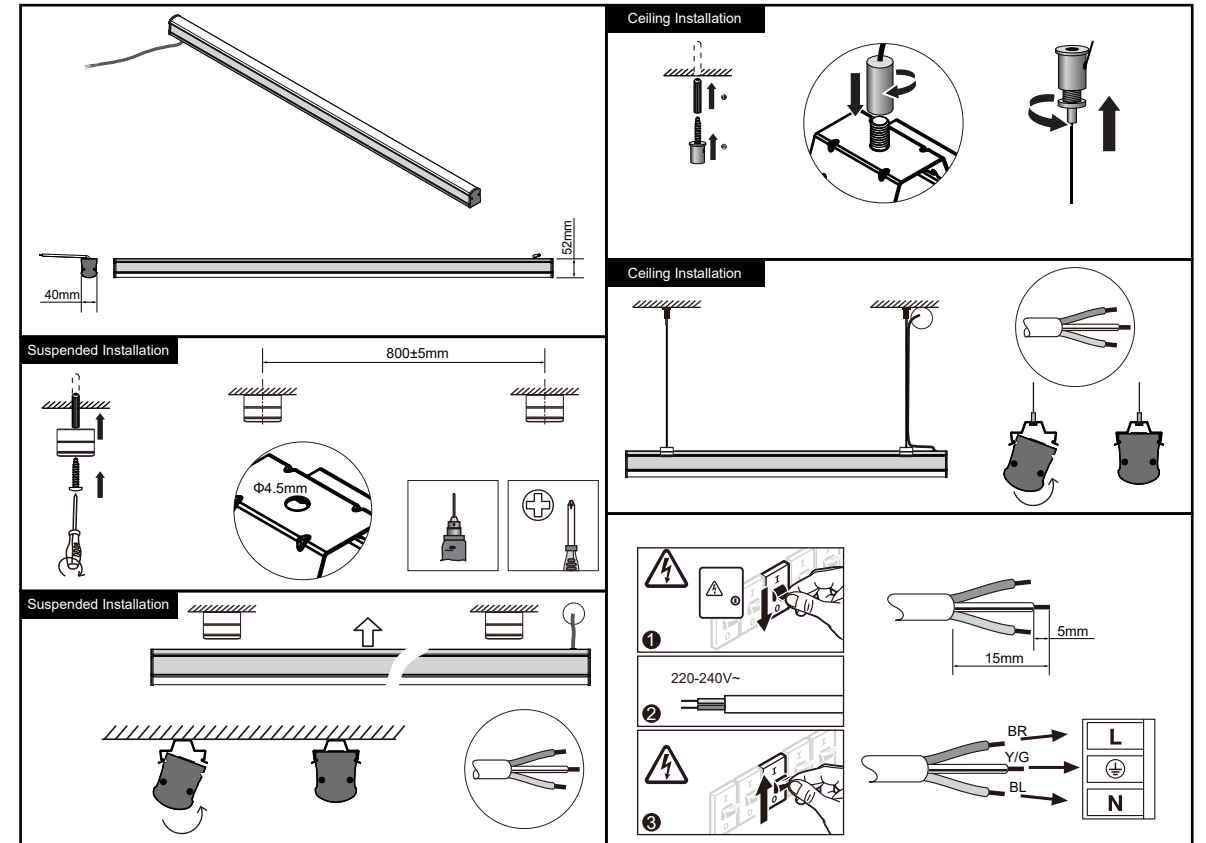


Spectral Power Distribution

The following images depict relative spectral power distribution characteristics of the luminaire:



Installation Guideline



Product Features

Integrated non-isolated driver Class I, safe and reliable efficiency reach 92%, PF>0.9

6063-T5 aluminum body with anodized surface, good heat dispatching performance.

German Technology

Stainless steel ceiling clip, easy to install, long time anticorrosive.

Optical PC cover, high transmittance rate of 85%, super uniform and soft light.

High quality injection end cap, fireproof PC material.

Nichia LED with LM-80 high luminance <6SDCM.

Professional appearance design.

CAUTION

1. In order to ensure proper operation, make sure to use the voltage under indicated range.
2. Please follow the correct way to install and use the product, cut off the electricity before installing or disassemble to prevent electric shock
3. The product is not waterproof, indoor use only, and do not use it in the high humidity or dusty environments.
4. The product is not suitable to working in frequent power-off situation; it will affect the life of the lamp;
5. Do not look directly into the LED light source for long time, high-intensity light source may cause eye injury.
6. Lamps operating temperature from -20°C to 45°C.
7. Not suitable for dimming.

LED Module - Auro™

Make your signage stand out and attractive with energy saving LED technology. Replacing traditional light source such as neon or T5 lamps, LED has greater advantages of energy saving and long life span. Using ultra brightness LED with special optical element. This offers flexibility of light color and uniform backlight distribution. Fully offered product ranges covering both single and double-sided light box, signage and channel letters fulfilling your infinite requirements in signage applications.



Auro™ Extreme
2.3W/Module

Auro™ Pro
2.7W/Module

Auro™
1.2W/Module

Features

- ✓ Ultra brightness 3535 flip eutectic LED chip technology
- ✓ Constant current drive. DC12V input voltage
- ✓ 10deg. x 40deg. beam angle
- ✓ Aluminum PCB and heat sink construction for better heat dissipation with flame-retardant engineering encapsulation
- ✓ Cascade connection to minimize wiring works
- ✓ IP65 protection rating against dust and water
- ✓ Safety and environmental standards recognition
- ✓ 5 years or 22,000 hours limited warranty*

*which ever comes first. Contact LeKise's representative for more warranty information.

Applications

Perimeter installed single-sided approximate depth of 8-20cm (3.15-7.87inch) and double-sided with approximate depth of 14-40cm (5.51-15.75in) advertising light box or signage for public advertisement, shopping mall, airport, subway, bus station etc.

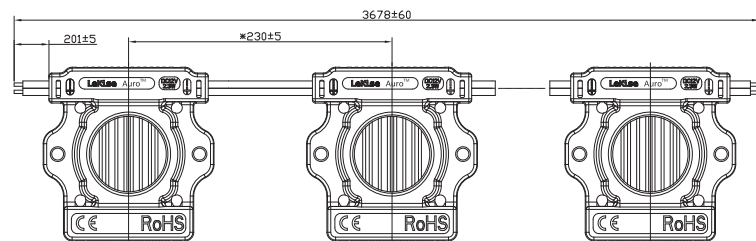
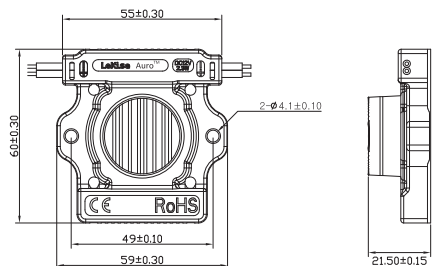


Product Code	Power/Module	DC Input Voltage	Max. Cascade Connection	Beam Angle (Deg.)	Luminous Flux (lm/Module)	CCT (K)	CRI (Ra)	LED Life Span @L70 (hrs) ¹
Auro™ Extreme								
2150002	2.3W	12V	15pcs	10x40	279	7000	75	>36,000
Auro™ Pro								
2150003	2.7W	12V	15pcs	10x40	277	7000	75	>36,000
Auro™								
2150004	1.2W	12V	25pcs	10x40	126	7000	75	>36,000

¹Based on IES-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information

Mechanical Drawing

Auro™ Extreme

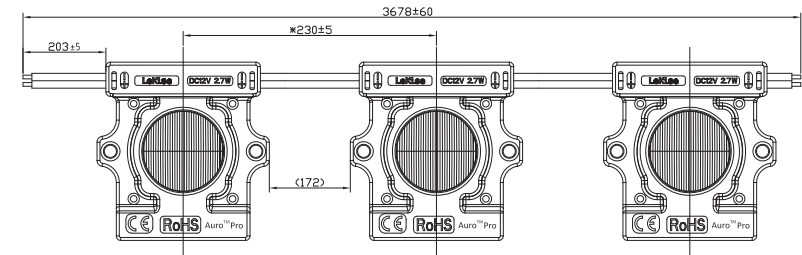
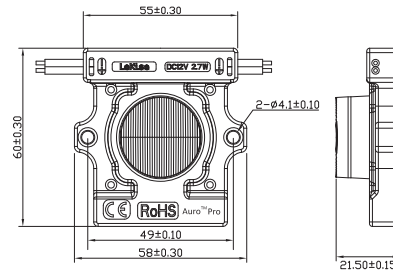


*Only to indicated maximum cable length between 2modules

Note: Not to scale drawing. Dimensions are in mm

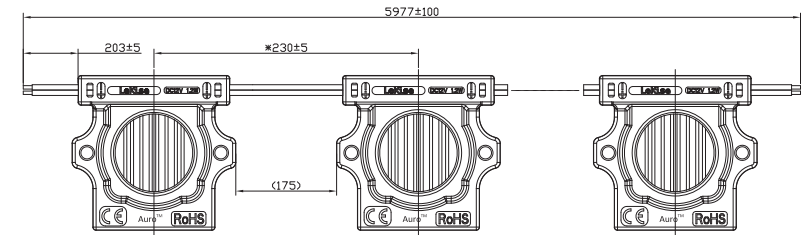
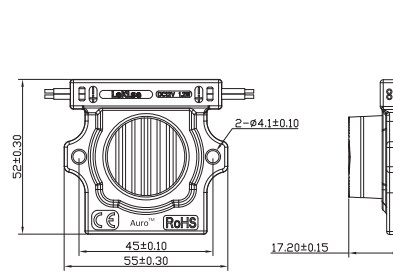
Mechanical Drawing (Continue)

Auro™ Pro



*Only to indicated maximum cable length between 2modules

Auro™

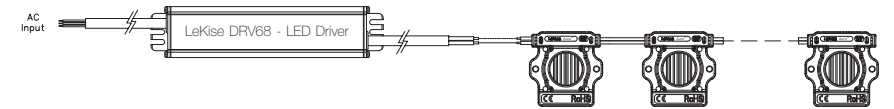


*Only to indicated maximum cable length between 2modules

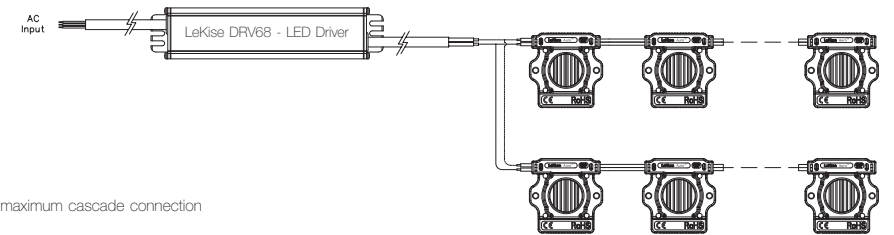
Note: Not to scale drawing. Dimensions are in mm

Electrical Wiring Guideline

A) Single Chain Connection



B) Multiple-Chains Connection



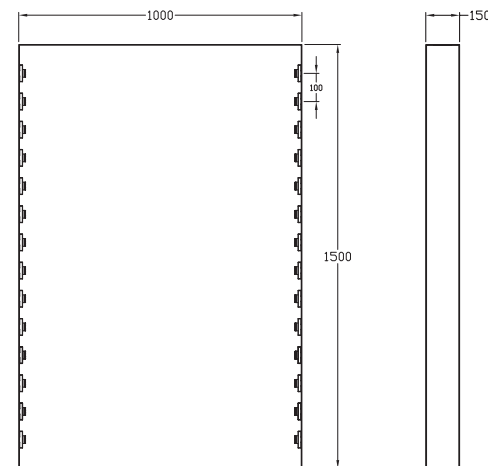
Note: Do not connect module over the specified maximum cascade connection

LED Driver must has rated output power more than 20% of the total power consumption of all modules.

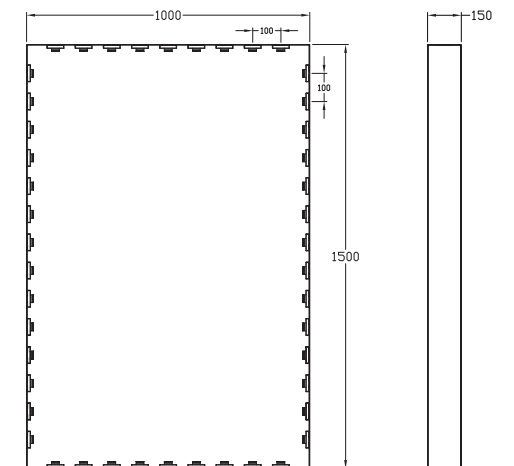
Installation Guideline

Double-Sided Light Box - 1000mm x 1500mm x 150mm

A) Dual-sides installation



B) All-sides installation (For better light effect)



Note: Back adhesive tape is not recommended as a permanent method to fix the module to the signage construction. Screw shall be used for permanent installation.

Specifications - LED Driver for Auro™ LED Module Series

Product Main Description	Input Voltage & Frequency	Rated Output Power	Input Current	Power Factor	Efficiency	Rated Output Voltage	Output Voltage Accuracy	Output Ripple & Noise	Rated Output Current	MTBF (hrs)
DRV68 - 5 Years Warranty										
AC-DRV6805/30W	AC100-240V, 50-60Hz	30W	<0.35A	>0.95	>84%	DC12V	+2.5%	<150mV	2.5A	>30,000
					>85%	DC24V	+2%	<240mV	1.25A	>30,000
AC-DRV6805/60W	AC100-240V, 50-60Hz	60W	<0.65A	>0.95	>86%	DC12V	+2.5%	<150mV	5A	>30,000
					>90%	DC24V	+2%	<240mV	2.5A	>30,000
AC-DRV6805/100W	AC100-240V, 50-60Hz	100W	<1.1A	>0.95	>90%	DC12V	+2.5%	<150mV	8.33A	>30,000
					>92%	DC24V	+2%	<240mV	4.16A	>30,000
AC-DRV6805/150W	AC100-240V, 50-60Hz	150W	<1.6A	>0.95	>92%	DC12V	+2.5%	<150mV	12.5A	>30,000
					>93%	DC24V	+2%	<240mV	6.25A	>30,000

See product detail in LED Driver - DRV68 Sell Sheet or contact LeKise's representative for more information

Ordering Information

Product Code	Product Description	Net Weight (kg)	Q'ty/Carion (pcs)	Gross Weight (kg)
LED Module - Auro™				
2150002	MD-AEXT2.3W/DC12/IP65/10x40/770	0.06	240	15.4
2150003	MD-APRO2.7W/DC12/IP65/10x40/770	0.06	240	15.4
2150004	MD-AURO1.2W/DC12/IP65/10x40/770	0.04	300	18.0
LED Driver - DRV68				
2910005	AC-DRV6805/30W/AC100-240/DC12/1x2.5A	0.50	30	17.2
2910006	AC-DRV6805/30W/AC100-240/DC24/1x1.25A	0.50	30	17.2
2910007	AC-DRV6805/60W/AC100-240/DC12/1x5A	0.52	30	18.0
2910008	AC-DRV6805/60W/AC100-240/DC24/1x2.5A	0.52	30	18.0
2910009	AC-DRV6805/100W/AC100-240/DC12/1x8.33A	0.88	12	12.4
2910010	AC-DRV6805/100W/AC100-240/DC24/1x4.16A	0.88	12	12.4
2910011	AC-DRV6805/150W/AC100-240/DC12/1x12.5A	1.00	12	14.0
2910012	AC-DRV6805/150W/AC100-240/DC24/1x6.25A	1.00	12	14.0

⚠ Safety Precautions

1. Risk of electrical shock. Disconnect power before install or service this product
2. Risk of electric shock. Ensure all the connections, both input and output wiring, have been completely and correctly wired before power up this product
3. Risk of injury. Wear safety glasses and gloves during installation and servicing
4. Risk of burn. Do not touch the exterior case when product is working
5. Product must be installed in a well-ventilated location to ensure the surrounding temperature is appropriately maintained and not exceed the specification
6. Input ground wire must be connected to earth
7. Appropriate size of wire conductors must be used according to the load
8. Do not attempt to repair this product. Contact your nearest distributor for assistance in case of failure

Remark:

1. This LED Module or LED Driver is considered as a component that will be operated in combination with final equipment. User installing this product into the final equipment must re-qualify EMC performance as it will be affected by the complete installation if required.
2. LED Driver can only be used behind a switch without permanently connected to the main input power.
3. IP68 rating is valid for the LED driver only excluding the wiring area. User must use IP68 approved connector to fulfill this requirement

LeKise

TURN THE LIFE ON

LED Module - Auro™

Make your signage stand out and attractive with energy saving LED technology. Replacing traditional light source such as neon or T5 lamps, LED has greater advantages of energy saving and long life span. Using ultra brightness LED with special optic element. This offers flexibility of light color and uniform backlight distribution. Fully offered product ranges covering both single and double-sided light box, signage and channel letters fulfilling your infinite requirements in signage applications.



SIGNAGE



Features

- ✓ High brightness LG Innotek SMD LED
- ✓ Constant current drive. DC12/24V dual input voltage system.
- ✓ 25deg. x 50deg. narrow beam angle
- ✓ Cascade connection up to 20 modules for 12VDC and 30 modules for 24VDC
- ✓ IP67 protection rating against dust and water
- ✓ UL certified engineering plastics construction
- ✓ Safety and environmental standards recognition

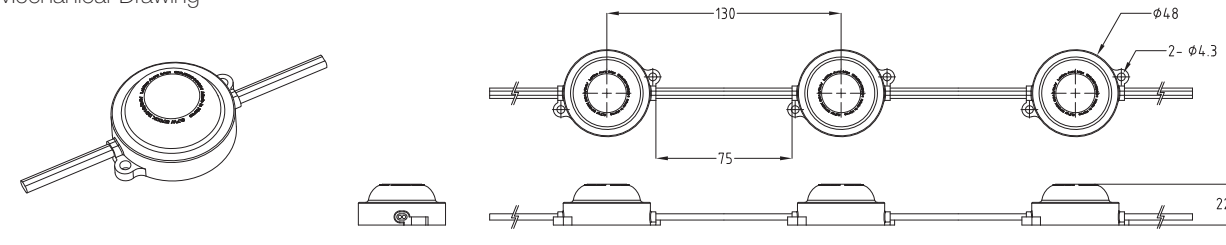
Applications

- ✓ Perimeter installed double-sided advertising light box approximate depth up to 30cm (12inch) for public advertisement, shopping mall, airport, subway, bus



Product Code	Power/Module	DC Input Voltage	Max. Cascade Connection (12V/24V)	Beam Angle (Deg.)	Luminous Flux (lm/Module)	CCT (K)	CRI (Ra)	LED Life Span @L70 (hrs) ¹
Auro™ Max								
2150001	2.7W	12/24V	20pcs/30pcs	25x50	190	5700	75	>36,000

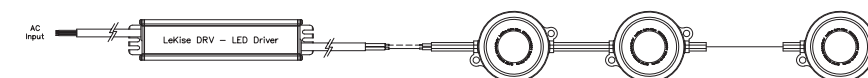
Mechanical Drawing



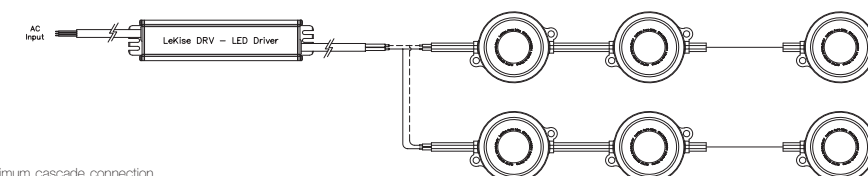
Note: Not to scale drawing. Dimensions are in mm

Electrical Wiring Guideline

A) Single Chain Connection



B) Multiple-Chains Connection



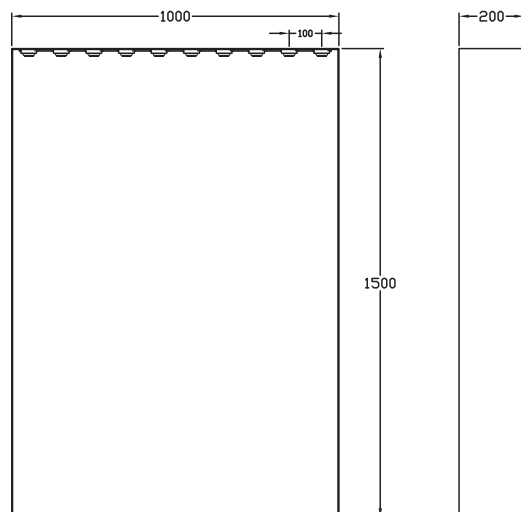
Note: Do not connect module over the specified maximum cascade connection

LED Driver must has rated output power more than 20% of the total power consumption of all modules.

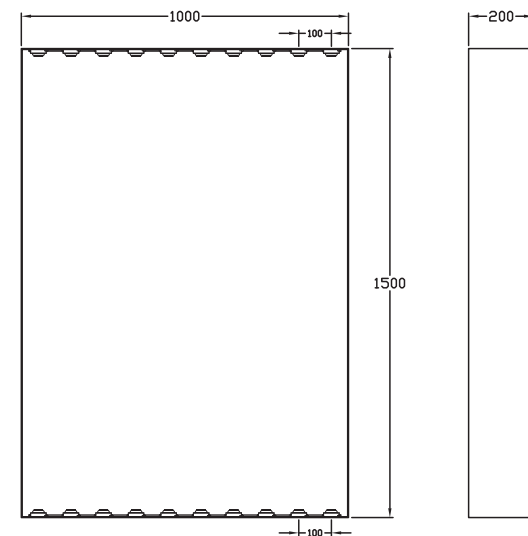
Installation Guideline

Double-Sided Light Box - 1000mm x 1500mm x 200mm

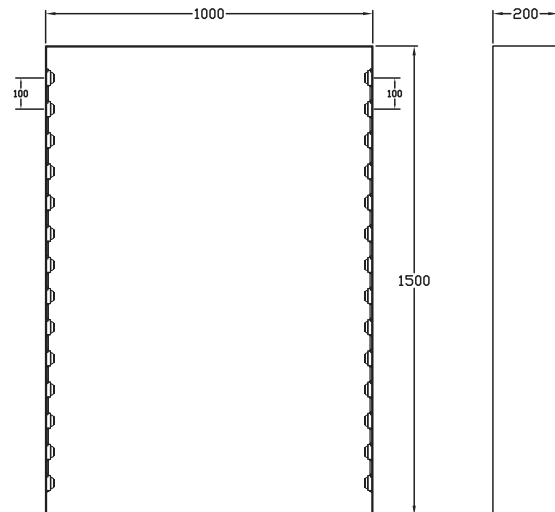
A) Single-side Installation



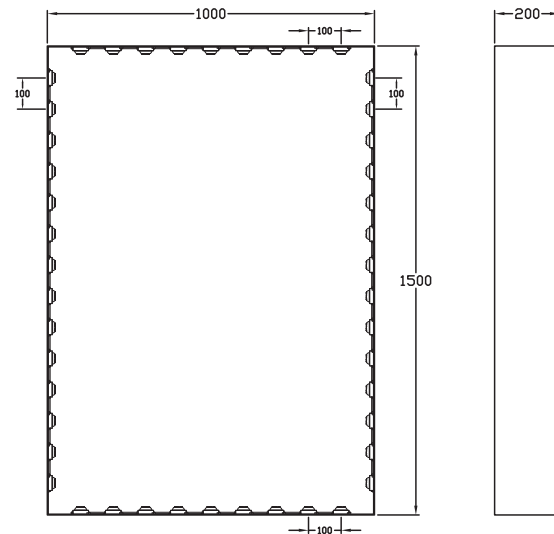
B) Dual Short-Sides Installation



C) Dual Long-Sides Installation



D) All sides Installation



Note: Back adhesive tape is not recommended as a permanent method to fix the module to the signage construction. Screw shall be used for permanent installation.

Specifications - LED Driver for Auro™ LED Module Series

Product Main Description	Input Voltage & Frequency	Rated Output Power	Input Current	Power Factor	Efficiency	Rated Output Voltage	Output Voltage Accuracy	Output Ripple & Noise	Rated Output Current	MTBF (hrs)
DRV68 - 5 Years Warranty										
AC-DRV6805/30W	AC100-240V, 50-60Hz	30W	<0.35A	>0.95	>84%	DC12V	+2.5%	<150mV	2.5A	>30,000
					>85%	DC24V	+2%	<240mV	1.25A	>30,000
AC-DRV6805/60W	AC100-240V, 50-60Hz	60W	<0.65A	>0.95	>86%	DC12V	+2.5%	<150mV	5A	>30,000
					>90%	DC24V	+2%	<240mV	2.5A	>30,000
AC-DRV6805/100W	AC100-240V, 50-60Hz	100W	<1.1A	>0.95	>90%	DC12V	+2.5%	<150mV	8.33A	>30,000
					>92%	DC24V	+2%	<240mV	4.16A	>30,000
AC-DRV6805/150W	AC100-240V, 50-60Hz	150W	<1.6A	>0.95	>92%	DC12V	+2.5%	<150mV	12.5A	>30,000
					>93%	DC24V	+2%	<240mV	6.25A	>30,000

See product detail in LED Driver - DRV68 Sell Sheet or contact LeKise's representative for more information

Ordering Information

Product Code	Product Description	Net Weight (kg)	Q'ty/Carton (pcs)	Gross Weight (kg)
LED Module - Auro™ Max				
2150001	MD-AMAX2.7W/DC12-24/IP67/25x50/757	0.03	200	10.0
LED Driver - DRV68				
2910005	AC-DRV6805/30W/AC100-240/DC12/1x2.5A	0.50	30	17.2
2910006	AC-DRV6805/30W/AC100-240/DC24/1x1.25A	0.50	30	17.2
2910007	AC-DRV6805/60W/AC100-240/DC12/1x5A	0.52	30	18.0
2910008	AC-DRV6805/60W/AC100-240/DC24/1x2.5A	0.52	30	18.0
2910009	AC-DRV6805/100W/AC100-240/DC12/1x8.33A	0.88	12	12.4
2910010	AC-DRV6805/100W/AC100-240/DC24/1x4.16A	0.88	12	12.4
2910011	AC-DRV6805/150W/AC100-240/DC12/1x12.5A	1.00	12	14.0
2910012	AC-DRV6805/150W/AC100-240/DC24/1x6.25A	1.00	12	14.0

⚠ Safety Precautions

1. Risk of electrical shock. Disconnect power before install or service this product
2. Risk of electric shock. Ensure all the connections, both input and output wiring, have been completely and correctly wired before power up this product
3. Risk of injury. Wear safety glasses and gloves during installation and servicing
4. Risk of burn. Do not touch the exterior case when product is working
5. Product must be installed in a well-ventilated location to ensure the surrounding temperature is appropriately maintained and not exceed the specification
6. Input ground wire must be connected to earth
7. Appropriate size of wire conductors must be used according to the load
8. Do not attempt to repair this product. Contact your nearest distributor for assistance in case of failure

Remark:

1. This LED Module or LED Driver is considered as a component that will be operated in combination with final equipment. User installing this product into the final equipment must re-qualify EMC performance as it will be affected by the complete installation if required.
2. LED Driver can only be used behind a switch without permanently connected to the main input power.
3. IP68 rating is valid for the LED driver only excluding the wiring area. User must use IP68 approved connector to fulfill this requirement

LED EXIT SIGN - NEVI™

The Exit sign NEVI™ has been specifically designed to provide an emergency lighting solution, utilising reliable LED technology. The LED chips provides even legend illumination and energy efficient operation, resulting in cost effective solutions to both maintained and non maintained emergency requirements. The Exitsign NEVI™ (IP65 Model) come with IP65* protection rating makes it suitable perfectly for outdoor installation.



Features

- ✓ Exitsign complies with the requirements of EIT 2004-51 and TIS 2430-2552.
- ✓ IP65* protection rating against dust and water.
- ✓ Premium Grade Battery.
- ✓ Protection against short circuits.
- ✓ Automatic test every 30 days to 30 minutes and every 180 days to 60 minutes.

Applications

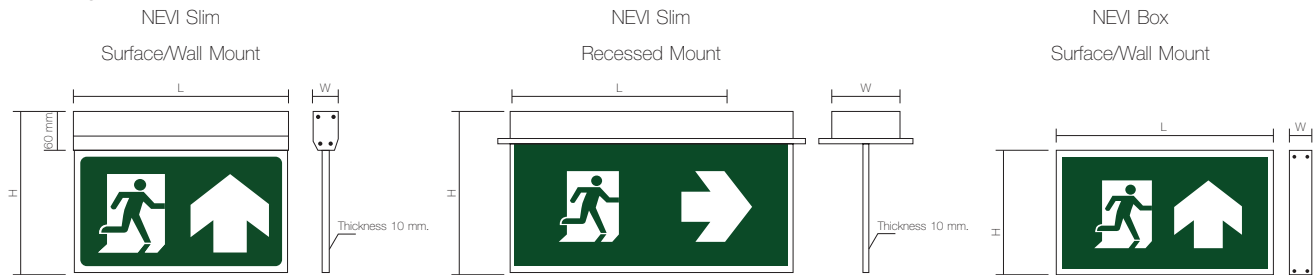
- ✓ Main exterior exit doors or gates which obviously and clearly are identifiable as exits need to have exit signs were approved by the building official.



*Special model. Contact LeKise's representative for more information.

Product Description	LED Lamp Power(W)	Standby Input AC Power(W)	Input Voltage (VAC/50Hz)	Nickel-Metal Hybride Battery	Charging (hrs.)	Backup Time(hrs)	Dimension [W x L x H]	Sign Sticker	Weight (kg)	Mounting
NEVI™ Slim										
LK-EXSL-SM1SF-LED-XX	3	4.50	170-265	4.8V 1800mAh.	12(±10%)	3	40x344x230	Single	1.90	Surface/Wall
LK-EXSL-SM2SF-LED-XX	3	4.50	170-265	4.8V 1800mAh.	12(±10%)	3	40x344x230	Double	1.90	Surface/Wall
LK-EXSL-LG1SF-LED-XX	3	5.25	170-265	4.8V 1800mAh.	12(±10%)	2	40x464x270	Single	2.85	Surface/Wall
LK-EXSL-LG2SF-LED-XX	3	5.25	170-265	4.8V 1800mAh.	12(±10%)	3	40x464x270	Double	2.85	Surface/Wall
LK-EXSL-SM1RC-LED-XX	3	4.50	170-265	4.8V 1800mAh.	12(±10%)	3	84x398x212	Single	2.20	Recessed
LK-EXSL-SM2RC-LED-XX	3	4.50	170-265	4.8V 1800mAh.	12(±10%)	3	84x398x212	Double	2.20	Recessed
LK-EXSL-LG1RC-LED-XX	3	5.25	170-265	4.8V 1800mAh.	12(±10%)	3	84x547x262	Single	3.30	Recessed
LK-EXSL-LG2RC-LED-XX	3	5.25	170-265	4.8V 1800mAh.	12(±10%)	3	84x547x262	Double	3.30	Recessed
NEVI™ Box										
LK-EXBO-SM1RC-LED-XX	3	4.50	170-265	4.8V 1800mAh.	12(±10%)	3	43x370x212	Single	1.90	Surface/Wall
LK-EXBO-SM2RC-LED-XX	3	4.50	170-265	4.8V 1800mAh.	12(±10%)	3	43x370x212	Double	1.90	Surface/Wall
LK-EXBO-LG1RC-LED-XX	3	6.00	170-265	4.8V 1800mAh.	12(±10%)	2	43x530x270	Single	2.85	Surface/Wall
LK-EXBO-LG2RC-LED-XX	3	6.00	170-265	4.8V 1800mAh.	12(±10%)	2	43x530x270	Double	2.85	Surface/Wall

Drawing



Symbol

Select the symbol and replace number to XX in product code. *Note:* The following symbol use for reference only, please contact LeKise's representative for more information.

Comply with EIT, TIS 2430-2552

Comply with Bangkok

General

1.1, 1.2, 1.3, 1.4, 1.5

2.1, 2.2, 2.3, 2.4, 2.5

3.1, 3.2, 3.3, 3.4, 3.5, 3.6

3.7, 3.8, 3.9, 3.10, 3.11, 3.12

3.13, 3.14, 3.15, 3.16, 3.17, 3.18

3.19, 3.20, 3.21, 3.22, 3.23, 3.24

3.25, 3.26, 3.27, 3.28, 3.29, 3.30

3.31, 3.32, 3.33, 3.34, 3.35, 3.36

3.37, 3.38, 3.39, 3.40, 3.41, 3.42

3.43, 3.44, 3.45, 3.46, 3.47, 3.48

3.49, 3.50, 3.51, 3.52, 3.53, 3.54

3.55, 3.56, 3.57, 3.58, 3.59, 3.60

3.61, 3.62, 3.63, 3.64, 3.65, 3.66

3.67, 3.68, 3.69, 3.70, 3.71, 3.72

3.73, 3.74, 3.75, 3.76

Other

4.1, 4.2, 4.3, 4.4

Remark:

LeKise will not be held liable for any errors, damage, or other unexpected events, including its consequences, resulting from the deviation of signage selection according to EIT (The Engineering Institute of Thailand) or TIS (Thailand Industrial Standard) No. 2430-2552

LED EMERGENCY - EMO™

LED Emergency light emerges the highest level of safety and illumination during power failure situation. EMO™ integrates innovative LED Technology, Intelligent microcontroller and battery charger in one single unit. The compact battery offers 4 hours operation during power failure and replacement cost saving for the battery. LED Lamp is 4 times less energy consumption when comparing with halogen lamp.



Picture

LK-EML-2x6W-002



LK-EML-2x9W-002



Features

- ✓ High quality aluminium sheet with powder coating.
- ✓ Each head produces the lumen output equivalent to 50W halogen lamp.
- ✓ 7.2AH 12V Sealed lead-acid battery.
- ✓ Constant lumen output control system providing a constant lumen output throughout the operation.
- ✓ Surge protection with MOV(Metal Oxide Varistor).
- ✓ The LED's have a life of 50,000 hours.
- ✓ AUTO-TEST System operation:
10 secs./week
1 hr./month
- ✓ Battery testing can be done by infrared Remote Control.
- ✓ Remote control provided.

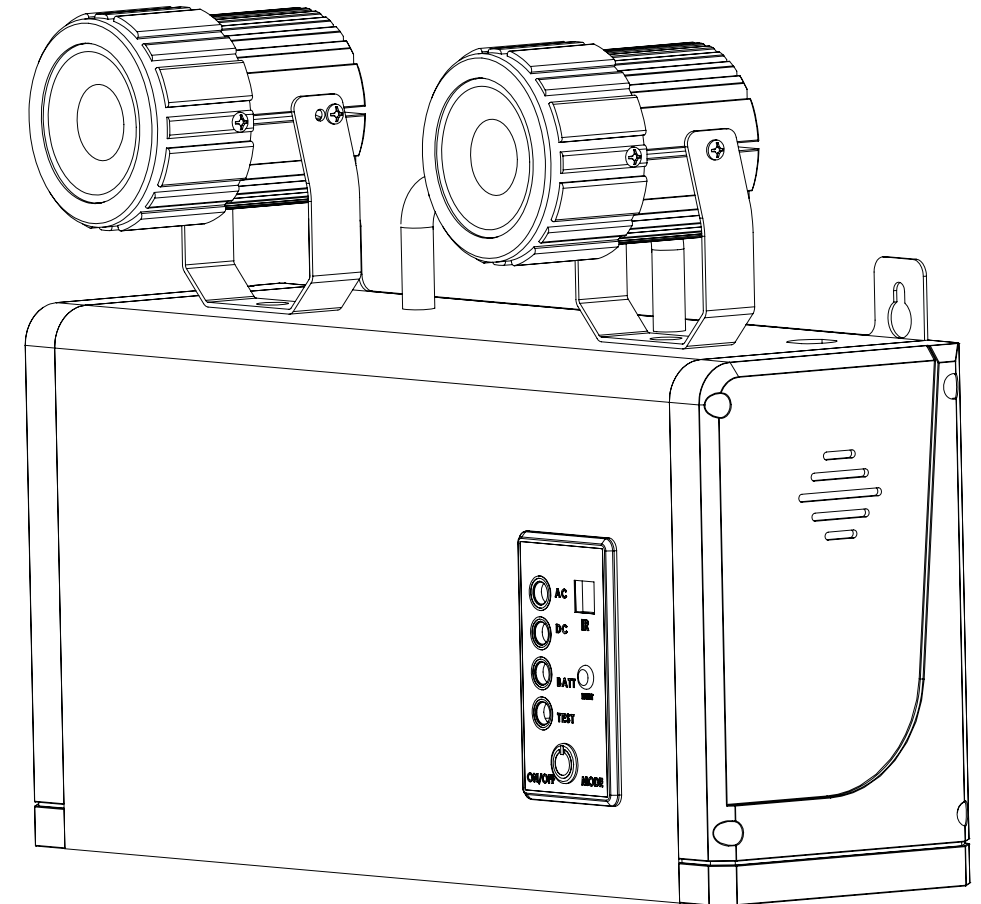
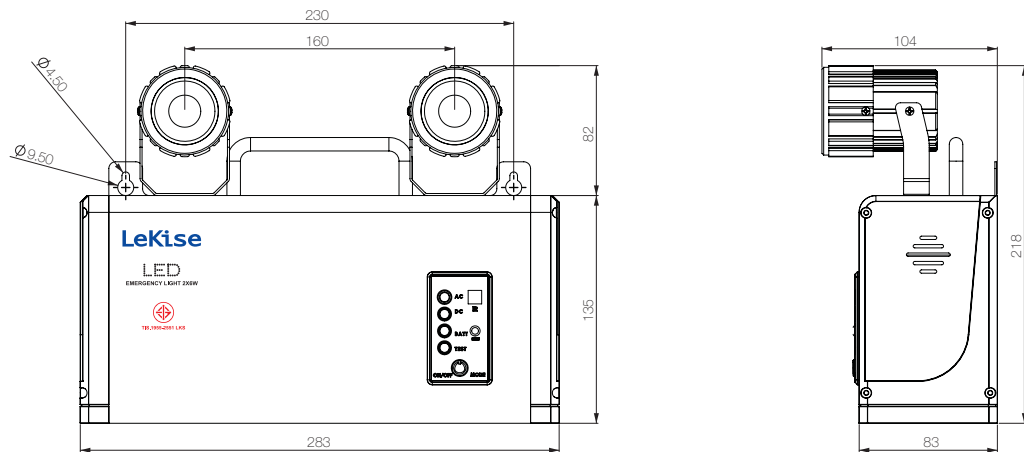
Applications

- ✓ Main exterior exit doors or gates which obviously and clearly are identifiable as exits need to have exit signs were approved by the building official.



Product Code	Input Voltage(V)	Lamp Power(W)	Cycle Life Test	Battery Cutoff Voltage(V)	Charging Time (hrs.)	Maximum Backup Time(hrs)	Sealed Lead Acid Battery	Dimming	CCT (K)	Weight (kg)
EMO™										
LK-EML-2x6W-002	AC220V	6W x 2	Auto	10.5 / 15	10-15	5	12V 7.2AH	4 Step	3,000	4
LK-EML-2x9W-002	AC220V	9W x 2	Auto	10.5 / 15	10-15	4	12V 7.2AH	4 Step	3,000	4

Drawing





Bay Light - VORTEX™
51 www.lekise.com



Lampyrid AWP
80W/100W/120W/150W



Lampyrid Pro
40W/80W/120W/160W
200W/240W/280W



FX
30W/65W/100W/200W



Lampyrid
50W/80W/100W/120W/150W
200W/240W/300W/350W/400W



Vortex
50W/125W/160W



Canotron
80W/120W/160W



Zonalux S1
30W/40W/60W/80W



Zonalux S2
30W/40W/60W/80W/100W



Zonalux S3
30W/40W/60W/80W



Zonalux S4
40W/60W/80W



Zonalux S4T
40W/60W/80W



Zonalux S5
40W/60W/80W



Zonalux SSP
40W/60W/80W



Zonalux S6
20W/40W



Zonalux S7A
40W/60W



Zonalux SB
40W/60W



Zonalux S8A
20W/40W



Zonalux S8B
20W/40W



Black
4W/5W/6W



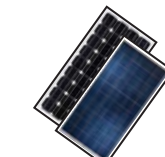
TEKKA
4W/5W/6W



Novalux Pro
4W/5W/6W



Novafash
4W/5W/6W



Solar
4W/5W/6W

Industrial

LED Lampyrid™ AWP	53
LED Lampyrid™ Pro	55
LED FX™	57

Bay Light

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LED Vortex™	63
LED Canotron™	65

Area Light

LED Zonalux™ S1	67
LED Zonalux™ S2	67
LED Zonalux™ S3	68
LED Zonalux™ S4	68
LED Zonalux™ S4T	68
LED Zonalux™ S5	69
LED Zonalux™ S5P	69
LED Zonalux™ S6	69
LED Zonalux™ S7A	70
LED Zonalux™ S7B	70
LED Zonalux™ S8A	70
LED Zonalux™ S8B	70

Roadway

LED Street Black™	73
LED Street TEKKA™	75
LED Street Novalux™ Pro	77
LED Street Novafash™	79
LED Street Solar™	81

All Weather Proof LED Industrial Light - Lampyrid™ AWP

LeKise Lampyrid™ AWP - proven to be the toughest lighting product specially designed for extreme environment conditions in various heavy industries such as Seaport, Mining, Foundry, Processing plant etc. Powered by Nichia® LED and patent pending reflector extracts and delivers maximum light output and control. Rated life of >60,000 hours@L70 (10k) equivalent to >15 years¹ of service. Fully submersible IP68 protection and IK07 impact rating with industrial grade exterior coating makes this special light withstands almost forces in nature as well as experiences in real application.



Features

- ✓ Powered by Nichia® LEDs and patent pending internal reflector deliver powerful and uncompromised light output of >115 lm/W² rated luminaire's efficacy with maximum light control
- ✓ Industrial grade tempered glass and top-coated Aluminum alloy body protect against extreme environment conditions
- ✓ IP68 Fully submersible protection rating per IEC60598-1 Section 9
- ✓ IK07 Impact resistance rating per IEC62262
- ✓ Suitable for interior and exterior installations
- ✓ Safety & Environmental standards recognition
- ✓ 5 years limited warranty

¹Based on 10 hours per day burning rate
²Under laboratory environment and applicable for specific model

Applications

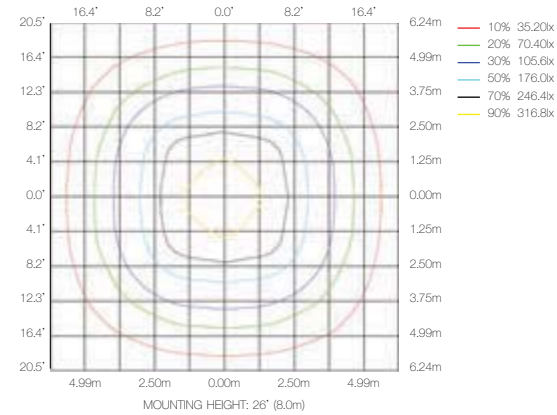
- ✓ Seaport
- ✓ Shipyard
- ✓ Container yard
- ✓ Mining
- ✓ Foundry
- ✓ Processing plant



Photometrics (Continue)

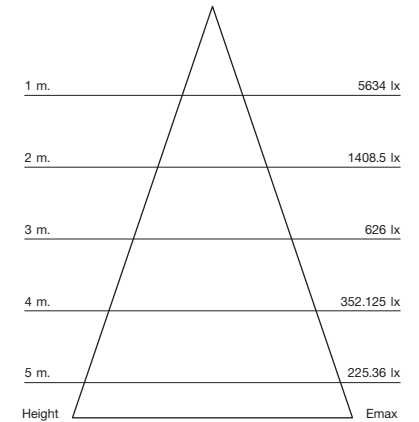
Isolux Diagram

The following images depict the Isolux Diagram characteristics of the luminaire:



AAI Curve

The following images depict the aai curve characteristics of the luminaire:



Ordering Information

Model	Power (Watt)	Voltage (VAC)	IP Rating	Beam Angle	CRI Value	CCT (K)
IN-AWP	150	UNI	IP68	110	7	50
Lampyrid™AWP	080 = 80W	UNI = 85-305VAC,	IP68 = IP68	65 = 65°	7 = 70-79	40 = 4000K
	100 = 100W	50-60Hz		110 = 110°	8 = 80-89	50 = 5000K
	120 = 120W					65 = 6500K
	150 = 150W					

Product Main Description	Voltage	System Power	Power Factor	THD	Initial Delivered Lumen		CRI (Ra)	Beam Angle (°)	Rated Life @L70 ³ (hrs)	Weight (kg)
					4000K	5000K				
Lampyrid™ AWP										
IN-AWP080	90-305VAC	80W	0.90	20%	7684	8133	70	65	>60,000	9.5
	90-305VAC	80W	0.90	20%	5358	9726	70	110	>60,000	9.5
IN-AWP100	90-305VAC	100W	0.90	20%	9533	9953	70	65	>60,000	9.5
	90-305VAC	100W	0.90	20%	10062	11414	70	110	>60,000	9.5
IN-AWP120	90-305VAC	120W	0.90	20%	10761	11909	70	65	>60,000	9.5
	90-305VAC	120W	0.90	20%	11669	13334	70	110	>60,000	9.5
IN-AWP150	90-305VAC	150W	0.90	20%	11336	13092	70	65	>60,000	9.5
	90-305VAC	150W	0.90	20%	14025	15705	70	110	>60,000	9.5

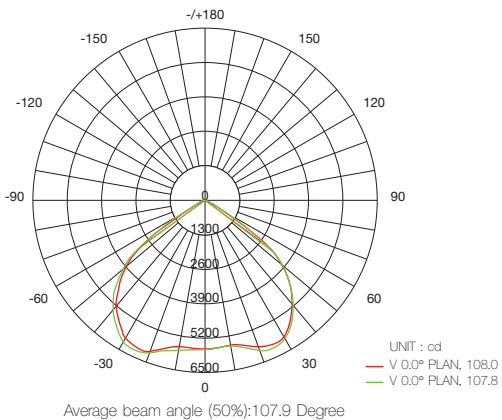
³ According to LM-80 Test report from LED manufacturer. Contact LeKise's representative for more information

Photometric data

*below data for IN-AWP150/UNI/IP68/110/750. Contact LeKise's representative for photometric information of each individual model

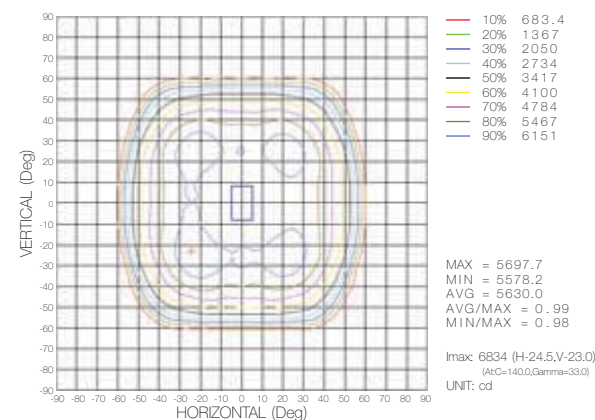
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:



Isocandela Diagram

The following images depict the Isocandela Diagram characteristics of the luminaire:



⚠ Safety Precautions

1. Risk of electrical shock. Disconnect power before installing or servicing this product.
2. Risk of injury or damage. Unit may fall if product is not installed properly. Follow installation instructions.
3. Risk of injury. Wear safety glasses and gloves during installation and service.
4. Study the detail in installation instructions completely and carefully before installing and using this product.
5. Do not remove or tamper with certified cable gland. Tampering with this cable gland may compromise IP68 rating and may result in flame propagation into the atmosphere.
6. Do not attempt to repair this product. Contact your nearest distributor for assistance in case of failure.

LED Industrial Light - Lampyrid™ Pro

Lampyrid™ Pro is suitable for the demand of outdoor industrial lighting application. It is slim, scalable modular design and simple installation. A wide range of system power from 40W to 280W to 280W for direct replacement to traditional light sources such as HPS: High Pressure Sodium or MH: Metal Halide. Adopted original Philips® Luxeon LED and Meanwell HLG LED driver, it delivers great and reliable performance with LED life span more than 60,000hours at L70(10k) which roughly equivalent to 15years¹ of service. Moreover, it contains no hazardous substances like the traditional. Dimmable option is available for more electrical saving potential and future intelligent control upgrade.



Features

- ✓ Adopted Philips® Luxeon LED and powered by Meanwell HLG Series
- ✓ Stable performance with LED life span more than 60,000 hours@L70(10k)
- ✓ Slim-scalable modular design, PC optical lens and stainless steel fixation
- ✓ Robust extruded Aluminum construction with exterior anti-static coating
- ✓ Enhance connection between LED module and Power supply with Exceedconn® IP68 rated waterproof connector
- ✓ IP66 protection rating ideally suitable for all outdoor lighting applications
- ✓ Operating conditions: -40°C to +50°C / 10 to 90%RH
- ✓ Safety and environmental standards recognition
- ✓ 5 years limited warranty

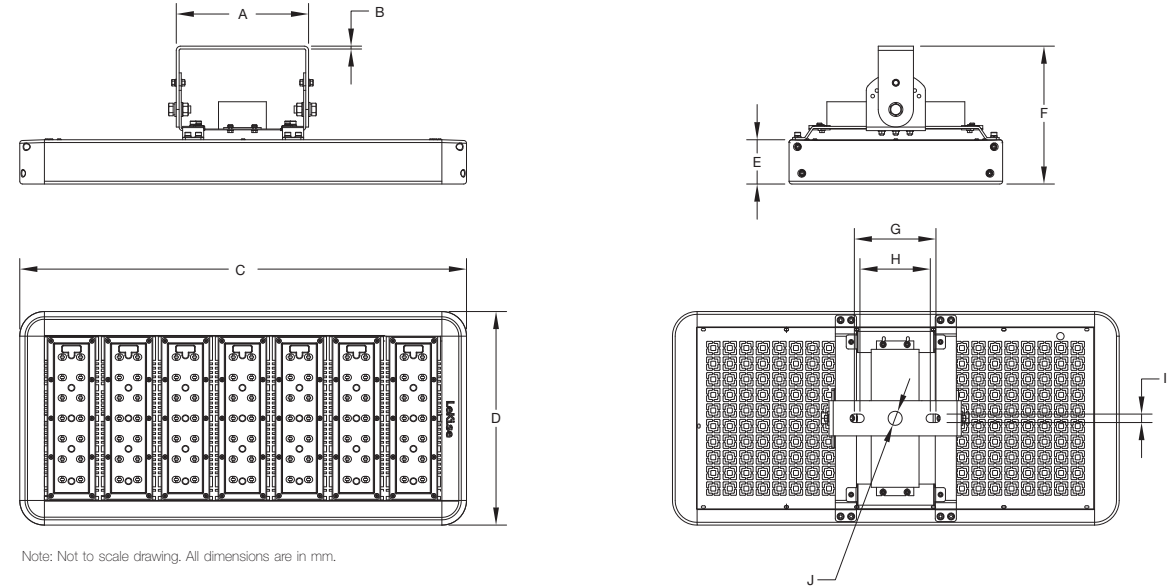
¹Based on ~11 hours burning rate per day or 4,000 hours per year

Applications

- ✓ Factory
- ✓ Warehouse
- ✓ Loading Bay
- ✓ Construction Area



Mechanical Dimensions



Ordering Information

Model	System Power	Rated Voltage	Distribution Type	Average Beam Angle	CRI Value	CCT	Optional Code
IN-LMP	040	/ UNI /	S	100 / 7	50 /	X	
	040 = 40W	UNI = AC90-305V,	S = Symmetrical	100 = 100deg.	7 = 70-79	40 = 4000K	• Dimmable
	080 = 80W	50-60Hz				57 = 5700K	• Color Code
	120 = 120W						
Lampyrid™ Pro	160 = 160W						
	200 = 200W						
	240 = 240W						
	280 = 280W						

Product Main Description	Input Voltage	System Power	Power Factor	THDi	Initial Delivered Lumen 4000K	Initial Delivered Lumen 5700K	CRI (Ra)	Average Beam Angle ² (deg.)	LED Life Span @L70 ³ (hrs)	NW. (kg)	LED Module
Lampyrid™ Pro											
IN-LMP040	AC90-305V	40W	≥0.95	≤15%	4150	4280	≥75	100 (Sym.)	>60,000	3.3	1
IN-LMP080	AC90-305V	80W	≥0.95	≤15%	8220	8480	≥75	100 (Sym.)	>60,000	4.8	2
IN-LMP120	AC90-305V	120W	≥0.95	≤15%	12200	12600	≥75	100 (Sym.)	>60,000	6.2	3
IN-LMP160	AC90-305V	160W	≥0.95	≤15%	16600	17120	≥75	100 (Sym.)	>60,000	7.2	4
IN-LMP200	AC90-305V	200W	≥0.95	≤15%	20370	21000	≥75	100 (Sym.)	>60,000	8.6	5
IN-LMP240	AC90-305V	240W	≥0.95	≤15%	24900	25680	≥75	100 (Sym.)	>60,000	9.6	6
IN-LMP280	AC90-305V	280W	≥0.95	≤15%	28780	29680	≥75	100 (Sym.)	>60,000	10.5	7

²Minimum is 95 degree.

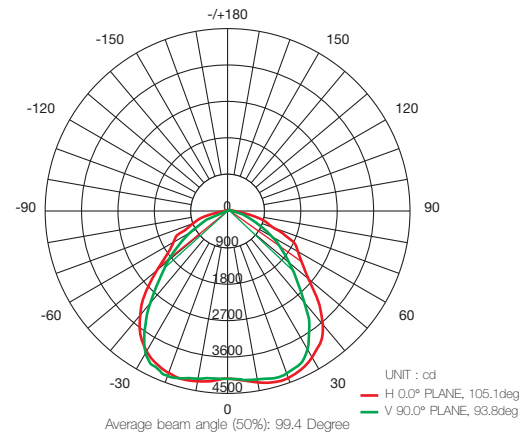
³Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Photometric data

Below data for IN-LMP120/UNI/IP66/S100/757. Contact LeKise's representative for photometric information of each individual model.

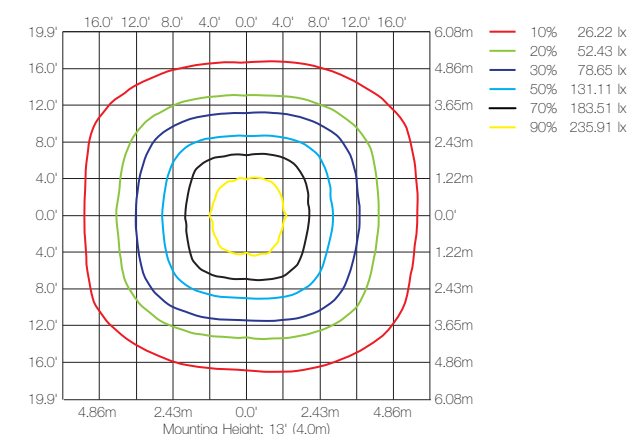
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:



Isolux Diagram

The following images depict the Isolux Diagram characteristics of the luminaire:



Product Code	Product Description	Dimension									
		A	B	C	D	E	F	G	H	I	J
2060145	IN-LMP040/UNI/IP66/S100/740	242	3	304	151	63	183	116	100	12	20
2060146	IN-LMP040/UNI/IP66/S100/757	242	3	304	151	63	183	116	100	12	20
2060147	IN-LMP080/UNI/IP66/S100/740	242	3	304	232	63	183	116	100	12	20
2060148	IN-LMP080/UNI/IP66/S100/757	242	3	304	232	63	183	116	100	12	20
2060149	IN-LMP120/UNI/IP66/S100/740	188	4	311	304	63	196	116	100	12	20
2060150	IN-LMP120/UNI/IP66/S100/757	188	4	311	304	63	196	116	100	12	20
2060151	IN-LMP160/UNI/IP66/S100/740	188	4	392	304	63	196	116	100	12	20
2060152	IN-LMP160/UNI/IP66/S100/757	188	4	392	304	63	196	116	100	12	20
2060153	IN-LMP200/UNI/IP66/S100/740	188	4	473	304	63	196	116	100	12	20
2060154	IN-LMP200/UNI/IP66/S100/757	188	4	473	304	63	196	116	100	12	20
2060155	IN-LMP240/UNI/IP66/S100/740	188	4	554	304	63	196	116	100	12	20
2060156	IN-LMP240/UNI/IP66/S100/757	188	4	554	304	63	196	116	100	12	20
2060157	IN-LMP280/UNI/IP66/S100/740	188	4	635	304	63	196	116	100	12	20
2060158	IN-LMP280/UNI/IP66/S100/757	188	4	635	304	63	196	116	100	12	20

⚠ Safety Precautions

1. Risk of electrical shock. Disconnect power before install or service this product
2. Risk of injury or damage. Unit may fall if product is not installed properly. Follow strictly installation instructions.
3. Risk of injury. Wear safely glasses and gloves during installation and servicing
4. Study the detail in installation manual completely and carefully before install and use this product.
5. Do not attempt to repair this product yourself. Contact your nearest distributor for assistant in case of failure

LED Industrial Light - FX

LED Industrial Light FX is suitable for the demand of outdoor industrial lighting application. It is slim, scalable modular design and simple installation. A wide range of system power from 30W to 200W for direct replacement to traditional light sources such as HPS: High Pressure Sodium or MH: Metal Halide. Delivers great and reliable performance with LED life span more than 50,000hours at L70(10k). Moreover, it contains no hazardous substances like the traditional.



Features

- ✓ Adopted original Cree® and high performance.
- ✓ No UV or IR light radiation.
- ✓ Color rendering index : > 70.
- ✓ Optimized heat fins with artistic design.
- ✓ 110-240 VAC input Voltage.
- ✓ Operating temperature : -30°C ~ 50°C.
- ✓ Long lifetime LED : > 50,000 hours.
- ✓ IK Rating : IK10 for fixture, IK08 for optic cover

Applications

- ✓ Wall-washer
- ✓ Factories
- ✓ Convention halls
- ✓ Public roadways
- ✓ Parking lots
- ✓ Sports facilities



Mechanical Dimensions



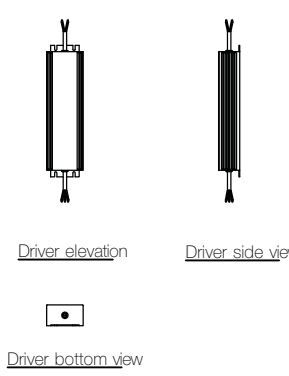
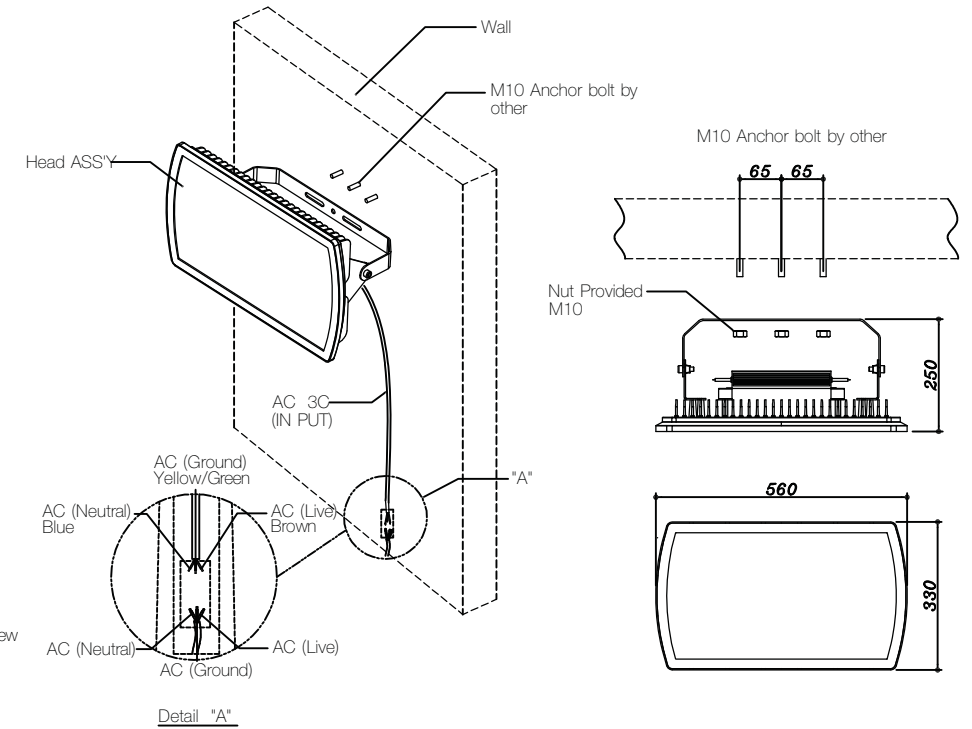
Note: Not to scale drawing. All dimensions are in mm.

Product Main Description	W	L	H
FX-30W	130	225	152
FX-50W	205	325	170
FX-65W	205	325	170
FX-100W	250	450	250
FX-150W	250	450	250
FX-200W	330	600	250

*** Dimension is maximum values.

Installation

Installation guide for 200W. Contact LeKise's representative for each model information.



Product Description	Input Voltage	System Power	Lumen	CCT (K)	CRI (Ra)	Beam Angle ¹ (deg.)	Power Factor	THDi	LED Life Span @L70 ² (hrs)	NW. (kg)	IP Rating
LED Industrial Light - FX											
FL-FX030/AC/S40/757	AC90-305V	30W	2850	5700	≥70	40	≥0.90	≤20	>50,000	2.5	65
FL-FX050/AC/S40/757	AC90-305V	50W	3400	5700	≥70	40	≥0.90	≤20	>50,000	4.0	65
FL-FX065/AC/S40/757	AC90-305V	65W	6175	5700	≥70	40	≥0.90	≤20	>50,000	4.0	65
FL-FX100/AC/S40/757	AC90-305V	100W	9500	5700	≥70	40	≥0.90	≤20	>50,000	8.0	65
FL-FX150/AC/S40/757	AC90-305V	150W	11000	5700	≥70	40	≥0.90	≤20	>50,000	8.0	65
FL-FX200/AC/S40/757	AC90-305V	200W	19000	5700	≥70	40	≥0.90	≤20	>50,000	12.0	65

¹Beam angle ±10%

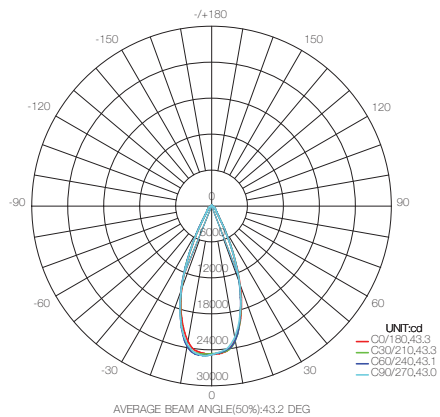
²Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Photometric data

Below data for FX-200W. Contact LeKise's representative for photometric information of each individual model.

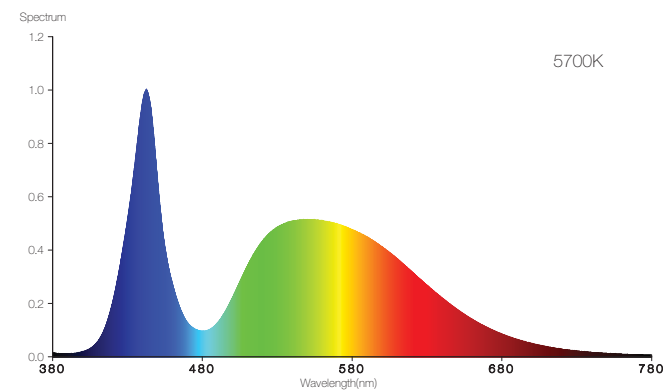
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:



Spectral Power Distribution

The following images depict relative spectral power distribution characteristics of the lamp:



⚠ Safety Precautions

1. Risk of electrical shock. Disconnect power before install or service this product
2. Risk of injury or damage. Unit may fall if product is not installed properly. Follow strictly installation instructions.
3. Risk of injury. Wear safety glasses and gloves during installation and servicing
4. Study the detail in installation manual completely and carefully before install and use this product.
5. Do not attempt to repair this product yourself. Contact your nearest distributor for assistant in case of failure

LED Highbay Light - Lampyrid™

LeKise Lampyrid™ a perfect solution for replacement of traditional light source highbay in various industries. Using Top-line Cree® LED light source inside delivers powerful and light quality yet significantly reduces electricity payment. Aluminum alloy constructions offer light weight and superior thermal dissipation thus the long life span more than 10 years¹ is achievable. Available for IP54 or IP65 for basic and maximum dust and water protection as needed by different installation and application.



Features

- ✓ Using top-line Cree LEDs delivers powerful and uncompromised light output of >110 lm/W² rated luminaire's efficacy.
- ✓ Solid constructed Aluminum Alloy and rust-proof components offer light weight and corrosion resistance.
- ✓ IP54 or IP65 protection rating against dust and water.
- ✓ Suitable for interior and exterior installations.
- ✓ Safety & Environmental standards recognition.
- ✓ 5 years limited warranty.

¹Base on 9 hours per day burning rate
²Under laboratory environment and applicable for specific model

Applications

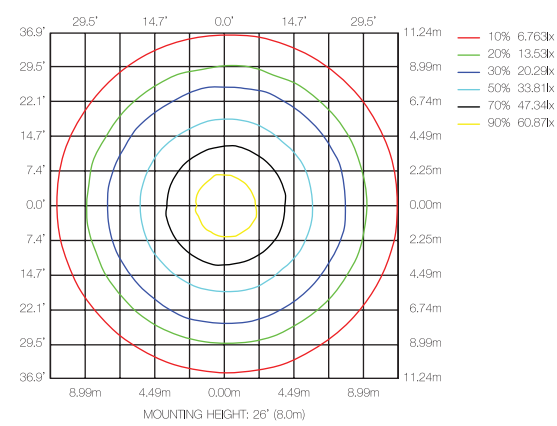
- ✓ Factory
- ✓ Warehouse
- ✓ Supermarket
- ✓ Shopping Mall
- ✓ Convention Hall
- ✓ Gymnasium



Photometric data (Continue)

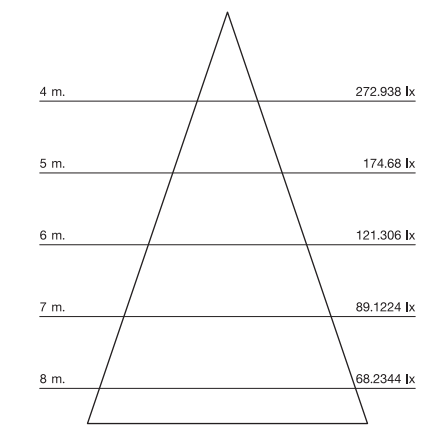
Isolux Diagram

The following images depict the Isolux diagram of the luminaire:



AAI Curve

The following images depict the aai curve of the luminaire:



Ordering Information

Model	Nominal Wattages	Voltage	IP Rating	Beam angle(°)	CRI	CCT
Lampyrid™						
	050 = 50W	UNI - 85-305VAC,	IP54 = IP54	45 = 45°	7 = 70-79	40 = 4000K
	080 = 80W	50-60Hz	IP65 = IP65	90 = 90°	8 = 80-89	65 = 6500K
	100 = 100W			120 = 120°		
	120 = 120W					
	150 = 150W					
	200 = 200W					
	240 = 240W					
	300 = 300W					
	350 = 350W					
	400 = 400W					

Product Code	Operating Voltage(V)	Nominal Wattages	Power Factor	THDi	Initial Deliverd Lumen 4000K 6500K	CRI (Ra)	Beam angle(°)	Rated Avg. Life@L70 ³ (hrs)	Weight (kg)
Lampyrid™									
IN-LAM050	85-305VAC	50	>0.95	15%	4950 5500	>75	45/90/120	>36,300	4.0
IN-LAM080	85-305VAC	80	>0.95	15%	7920 8800	>75	45/90/120	>36,300	5.0
IN-LAM100	85-305VAC	100	>0.95	15%	10233 11370	>75	45/90/120	>36,300	5.5
IN-LAM120	85-305VAC	120	>0.95	15%	11880 13200	>75	45/90/120	>36,300	6.7
IN-LAM150	85-305VAC	150	>0.95	15%	14850 16500	>75	45/90/120	>36,300	7.0
IN-LAM200	85-305VAC	200	>0.95	15%	19800 22000	>75	45/90/120	>36,300	13.0
IN-LAM240	85-305VAC	240	>0.95	15%	21600 24000	>75	45/90/120	>36,300	14.0
IN-LAM300	85-305VAC	300	>0.95	15%	25650 28500	>75	45/90/120	>36,300	17.5
IN-LAM350	85-305VAC	350	>0.95	15%	29925 33250	>75	45/90/120	>36,300	19.0
IN-LAM400	85-305VAC	400	>0.95	15%	34200 38000	>75	45/90/120	>36,300	20.0

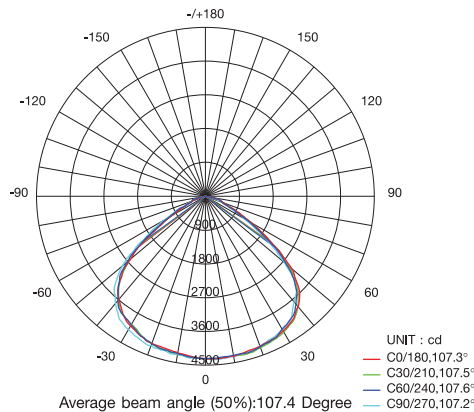
³According to LM-80 test report from LED manufacturer. Contact LeKise's representative for more information.

Photometric data

Below data for IN-LAM100/UNI/IP65/120/765. Contact LeKise's representative for photometric information of each individual model.

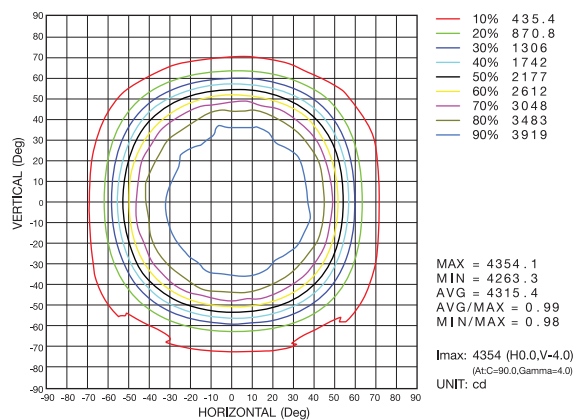
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:



Isocandela Diagram

The following images depict the Isocandela diagram of the luminaire:



Product Code	Product Description	Product Code	Product Description
2060001	IN-LAM050/UNI/IP54/45/740	2060019	IN-LAM080/UNI/IP65/45/740
2060002	IN-LAM050/UNI/IP54/45/765	2060020	IN-LAM080/UNI/IP65/45/765
2060003	IN-LAM050/UNI/IP54/90/740	2060021	IN-LAM080/UNI/IP65/90/740
2060004	IN-LAM050/UNI/IP54/90/765	2060022	IN-LAM080/UNI/IP65/90/765
2060005	IN-LAM050/UNI/IP54/120/740	2060023	IN-LAM080/UNI/IP65/120/740
2060006	IN-LAM050/UNI/IP54/120/765	2060024	IN-LAM080/UNI/IP65/120/765
2060007	IN-LAM050/UNI/IP65/45/740	2060025	IN-LAM100/UNI/IP54/45/740
2060008	IN-LAM050/UNI/IP65/45/765	2060026	IN-LAM100/UNI/IP54/45/765
2060009	IN-LAM050/UNI/IP65/90/740	2060027	IN-LAM100/UNI/IP54/90/740
2060010	IN-LAM050/UNI/IP65/90/765	2060028	IN-LAM100/UNI/IP54/90/765
2060011	IN-LAM050/UNI/IP65/120/740	2060029	IN-LAM100/UNI/IP54/120/740
2060012	IN-LAM050/UNI/IP65/120/765	2060030	IN-LAM100/UNI/IP54/120/765
2060013	IN-LAM080/UNI/IP54/45/740	2060031	IN-LAM100/UNI/IP65/45/740
2060014	IN-LAM080/UNI/IP54/45/765	2060032	IN-LAM100/UNI/IP65/45/765
2060015	IN-LAM080/UNI/IP54/90/740	2060033	IN-LAM100/UNI/IP65/90/740
2060016	IN-LAM080/UNI/IP54/90/765	2060034	IN-LAM100/UNI/IP65/90/765
2060017	IN-LAM080/UNI/IP54/120/740	2060035	IN-LAM100/UNI/IP65/120/740
2060018	IN-LAM080/UNI/IP54/120/765	2060036	IN-LAM100/UNI/IP65/120/765

Ordering Information (Continue)

Product Code	Product Description	Product Code	Product Description
2060037	IN-LAM120/UNI/IP54/45/740	2060079	IN-LAM240/UNI/IP65/45/740
2060038	IN-LAM120/UNI/IP54/45/765	2060080	IN-LAM240/UNI/IP65/45/765
2060039	IN-LAM120/UNI/IP54/90/740	2060081	IN-LAM240/UNI/IP65/90/740
2060040	IN-LAM120/UNI/IP54/90/765	2060082	IN-LAM240/UNI/IP65/90/765
2060041	IN-LAM120/UNI/IP54/120/740	2060083	IN-LAM240/UNI/IP65/120/740
2060042	IN-LAM120/UNI/IP54/120/765	2060084	IN-LAM240/UNI/IP65/120/765
2060043	IN-LAM120/UNI/IP65/45/740	2060085	IN-LAM300/UNI/IP54/45/740
2060044	IN-LAM120/UNI/IP65/45/765	2060086	IN-LAM300/UNI/IP54/45/765
2060045	IN-LAM120/UNI/IP65/90/740	2060087	IN-LAM300/UNI/IP54/90/740
2060046	IN-LAM120/UNI/IP65/90/765	2060088	IN-LAM300/UNI/IP54/90/765
2060047	IN-LAM120/UNI/IP65/120/740	2060089	IN-LAM300/UNI/IP54/120/740
2060048	IN-LAM120/UNI/IP65/120/765	2060090	IN-LAM300/UNI/IP54/120/765
2060049	IN-LAM150/UNI/IP54/45/740	2060091	IN-LAM300/UNI/IP65/45/740
2060050	IN-LAM150/UNI/IP54/45/765	2060092	IN-LAM300/UNI/IP65/45/765
2060051	IN-LAM150/UNI/IP54/90/740	2060093	IN-LAM300/UNI/IP65/90/740
2060052	IN-LAM150/UNI/IP54/90/765	2060094	IN-LAM300/UNI/IP65/90/765
2060053	IN-LAM150/UNI/IP54/120/740	2060095	IN-LAM300/UNI/IP65/120/740
2060054	IN-LAM150/UNI/IP54/120/765	2060096	IN-LAM300/UNI/IP65/120/765
2060055	IN-LAM150/UNI/IP65/45/740	2060097	IN-LAM350/UNI/IP54/45/740
2060056	IN-LAM150/UNI/IP65/45/765	2060098	IN-LAM350/UNI/IP54/45/765
2060057	IN-LAM150/UNI/IP65/90/740	2060099	IN-LAM350/UNI/IP54/90/740
2060058	IN-LAM150/UNI/IP65/90/765	2060100	IN-LAM350/UNI/IP54/90/765
2060059	IN-LAM150/UNI/IP65/120/740	2060101	IN-LAM350/UNI/IP54/120/740
2060060	IN-LAM150/UNI/IP65/120/765	2060102	IN-LAM350/UNI/IP54/120/765
2060061	IN-LAM200/UNI/IP54/45/740	2060103	IN-LAM350/UNI/IP65/45/740
2060062	IN-LAM200/UNI/IP54/45/765	2060104	IN-LAM350/UNI/IP65/45/765
2060063	IN-LAM200/UNI/IP54/90/740	2060105	IN-LAM350/UNI/IP65/90/740
2060064	IN-LAM200/UNI/IP54/90/765	2060106	IN-LAM350/UNI/IP65/90/765
2060065	IN-LAM200/UNI/IP54/120/740	2060107	IN-LAM350/UNI/IP65/120/740
2060066	IN-LAM200/UNI/IP54/120/765	2060108	IN-LAM350/UNI/IP65/120/765
2060067	IN-LAM200/UNI/IP65/45/740	2060109	IN-LAM400/UNI/IP54/45/740
2060068	IN-LAM200/UNI/IP65/45/765	2060110	IN-LAM400/UNI/IP54/45/765
2060069	IN-LAM200/UNI/IP65/90/740	2060111	IN-LAM400/UNI/IP54/90/740
2060070	IN-LAM200/UNI/IP65/90/765	2060112	IN-LAM400/UNI/IP54/90/765
2060071	IN-LAM200/UNI/IP65/120/740	2060113	IN-LAM400/UNI/IP54/120/740
2060072	IN-LAM200/UNI/IP65/120/765	2060114	IN-LAM400/UNI/IP54/120/765
2060073	IN-LAM240/UNI/IP54/45/740	2060115	IN-LAM400/UNI/IP65/45/740
2060074	IN-LAM240/UNI/IP54/45/765	2060116	IN-LAM400/UNI/IP65/45/765
2060075	IN-LAM240/UNI/IP54/90/740	2060117	IN-LAM400/UNI/IP65/90/740
2060076	IN-LAM240/UNI/IP54/90/765	2060118	IN-LAM400/UNI/IP65/90/765
2060077	IN-LAM240/UNI/IP54/120/740	2060119	IN-LAM400/UNI/IP65/120/740
2060078	IN-LAM240/UNI/IP54/120/765	2060120	IN-LAM400/UNI/IP65/120/765

! Safety Precautions

1. Risk of electrical shock. Disconnect power before installing or servicing this product.
2. Risk of injury or damage. Unit may fall if product is not installed properly. Follow installation instructions.
3. Risk of injury. Wear safety glasses and gloves during installation and service.
4. Study the detail in installation instructions completely and carefully before installing and using this product.
5. Do not attempt to repair this product. Contact your nearest distributor for assistance in case of failure.



LED Highbay Light - Vortex™

LeKise Vortex™ a perfect solution for replacement of traditional light source highbay in various industries. Using Top-line Luxion® LED light source inside delivers powerful and light quality yet significantly reduces electricity payment. Aluminum extrusion constructions offer light weight and superior thermal dissipation thus the long life span. The appearance of LED High Bay is as similar as traditional high bay lighting but it save more energy and has lower light depreciation rates to decrease both energy, maintenance cost and easy installation.



Features

- ✓ Using top-line Luxion® LEDs delivers powerful and uncompromised light output of $>100 \text{ lm/W}^2$ rated luminaire's efficacy.
- ✓ Solid constructed Aluminum Alloy and rust-proof components offer light weight and corrosion resistance.
- ✓ IP65 protection rating against dust and water for led driver.
- ✓ Suitable for interior and exterior installations.
- ✓ Safety & Environmental standards recognition.
- ✓ High frequency operation, no flicker.

Applications

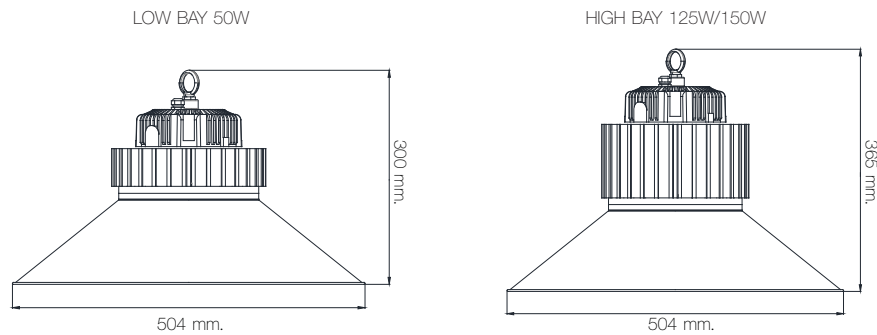
- ✓ Factory
- ✓ Warehouse
- ✓ Supermarket
- ✓ Shopping Mall
- ✓ Convention Hall
- ✓ Gymnasium



Product Code	Product Description	Operating Voltage(V)	Nominal Wattages ¹	Nominal Lumen	Power Factor	THDi	Nominal CCT ²	CRI (Ra)	Beam angle(°)	Rated Avg. Life@L70 ³ (hrs)
Vortex™										
FG-PD-11-015	LB/50W/757/90D	100-253VAC	50	4500	>0.9	20%	5700	>70	90	>50,000
FG-PD-11-018	HB/125W/757/25D	100-253VAC	125	12500	>0.9	15%	5700	>70	25	>50,000
FG-PD-11-019	HB/125W/757/40D	100-253VAC	125	12500	>0.9	15%	5700	>70	40	>50,000
FG-PD-11-017	HB/125W/757/60D	100-253VAC	125	12500	>0.9	15%	5700	>70	60	>50,000
FG-PD-11-014	HB/125W/757/90D	100-253VAC	125	12500	>0.9	15%	5700	>70	90	>50,000
FG-PD-11-020	HB/150W/757/60D	100-253VAC	150	15000	>0.9	15%	5700	>70	60	>50,000

¹Typical value.
²Nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)
³According to LM-80 test report from LED manufacturer. Contact LeKise's representative for more information.

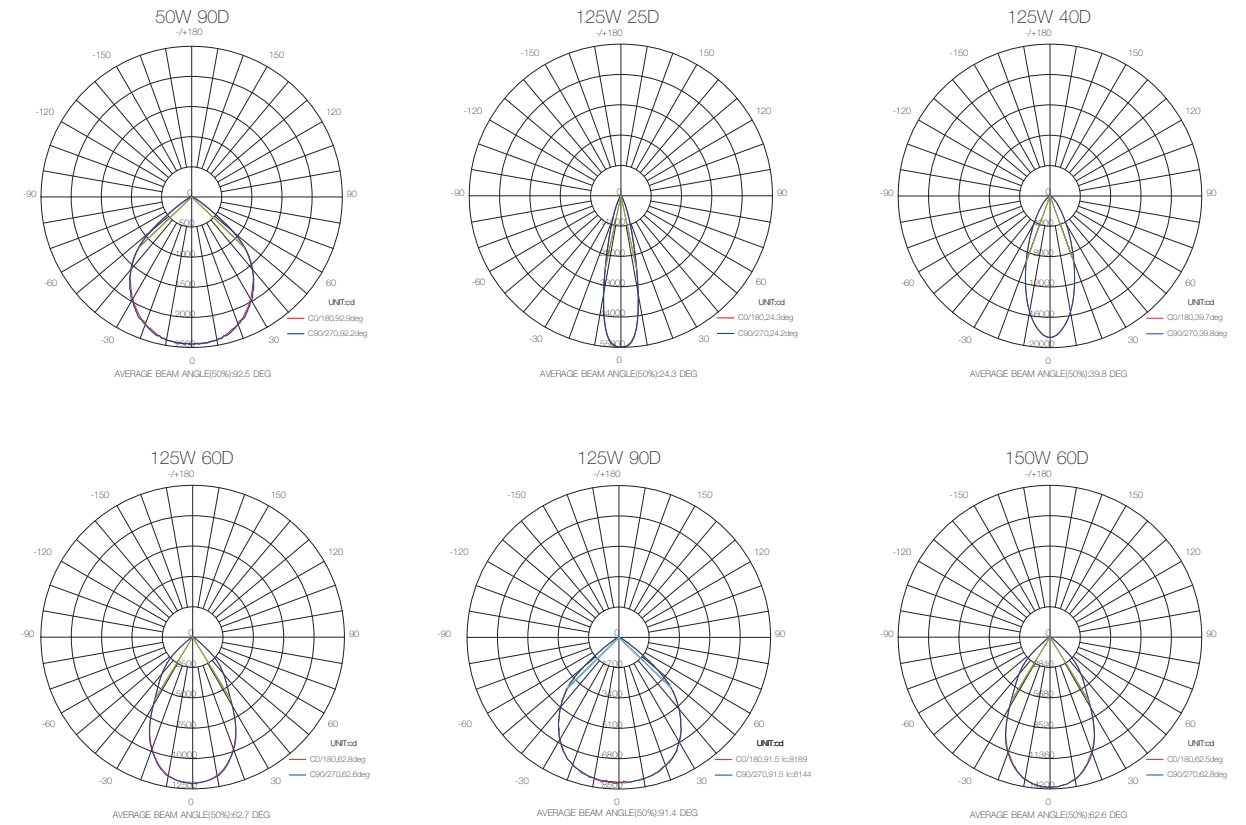
Drawing



Photometric data (Continue)

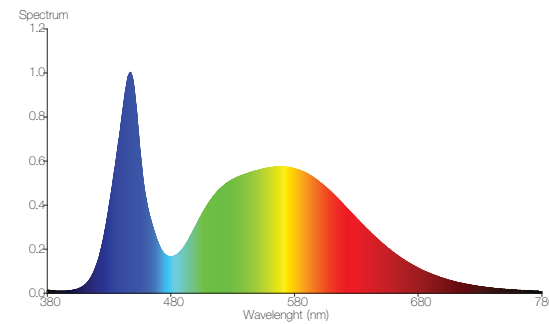
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:



Spectral Power Distribution

The following images depict the spectral power distribution characteristics of the luminaire:



⚠ Safety Precautions

1. Risk of electrical shock. Disconnect power before installing or servicing this product.
2. Risk of injury or damage. Unit may fall if product is not installed properly. Follow installation instructions.
3. Risk of injury. Wear safety glasses and gloves during installation and service.
4. Study the detail in installation instructions completely and carefully before installing and using this product.
5. Do not attempt to repair this product. Contact your nearest distributor for assistance in case of failure.

LED Recessed Canopy Light - Canotron™

Direct replacement to traditional high intensity discharge (HID) light source luminaire such as Metal Halide Lamp, Canotron™ offers significant energy saving, maintenance-free and contains no hazardous substances. Adopted original Philips® Luxeon LED and Meanwell HLG LED driver, it delivers superior and reliable performance with LED life span more than 60,000hours at L70(10k) which roughly equivalent to 15years¹ of service. The product is easy to install thus the installation cost is minimized. Dimmable option is available for more electrical saving potential and future intelligent control upgrade.



Features

- ✓ Adopted Philips® Luxeon LED and powered by Meanwell HLG Series
- ✓ Stable performance with LED life span more than 60,000 hours@L70(10k)
- ✓ Easy installation design, premium grade Polycarbonate optical lens
- ✓ Industrial-grade, corrosion proof anti-static coating over steel bracket
- ✓ LED module is rated IP66 against dusty and humid outdoor environment
- ✓ Operating conditions: -40°C to +50°C / 10 to 90%RH
- ✓ Safety and environmental standards recognition
- ✓ 5 years limited warranty

Applications

- ✓ Gas Station
- ✓ Bus Terminal
- ✓ Loading Bay
- ✓ Parking Garage

¹Based on ~11 hours burning rate per day or 4,000 hours per year



Product Main Description	Input Voltage	System Power	Power Factor	%THD	Initial Delivered Lumen		CRI (Ra)	Average Beam Angle (deg.)	LED Life Span @L70 ² (hrs)	Net Weight (kg)
					4000K	5700K				
Canotron™										
CA-CNT080	AC90-305V	80W	≥0.95	≤15%	8220	8480	≥75	100 (Sym.)	>60,000	4.8
CA-CNT120	AC90-305V	120W	≥0.95	≤15%	12200	12600	≥75	100 (Sym.)	>60,000	6.2
CA-CNT160	AC90-305V	160W	≥0.95	≤15%	16600	17120	≥75	100 (Sym.)	>60,000	7.2

²Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.



Canotron™ 80W



Canotron™ 120W



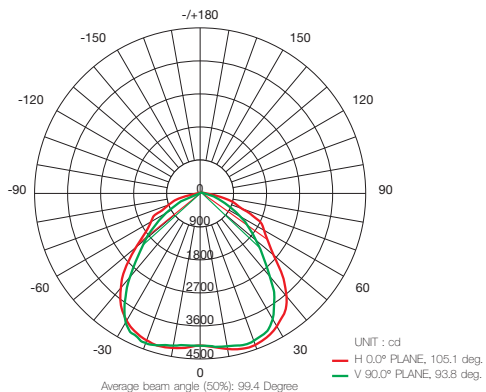
Canotron™ 160W

Photometric data

Below data for CA-CNT120/UNI/IP66/S100/757. Contact LeKise's representative for photometric information of each individual model.

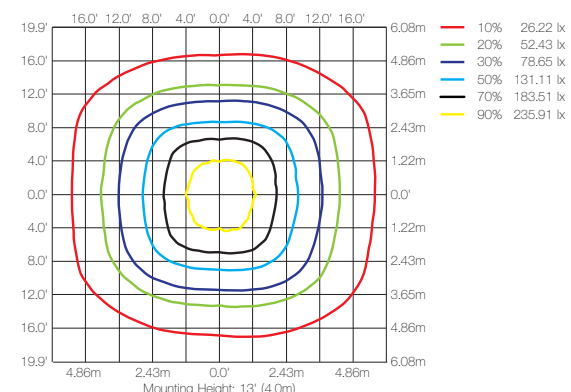
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:



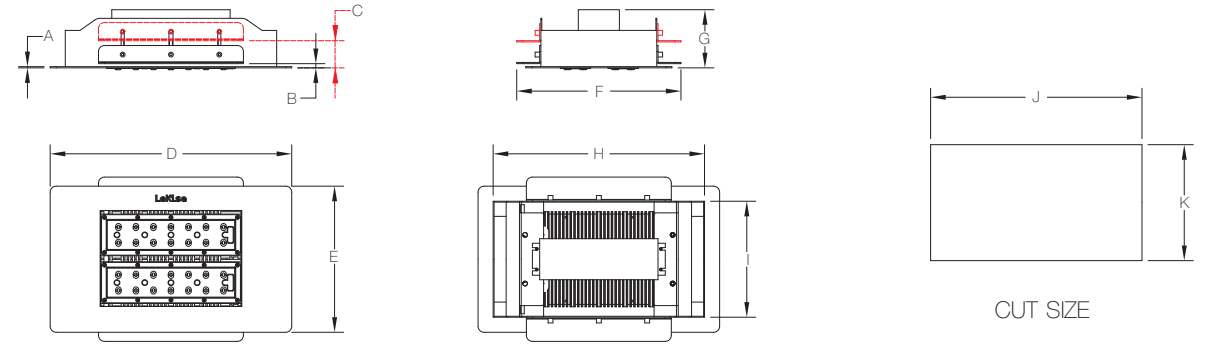
Isolux Diagram

The following images depict the Isolux Diagram characteristics of the luminaire:



Mechanical Dimensions

CA-CNT080 - 80W



Note: Not to scale drawing. All dimensions are in mm.

Product Code	Product Description	A	B	C	D	E	F	G	H	I	J	K
2080001	CA-CNT080/UNI/IP66/S100/740	2	7	45	400	242	272	96	350	192	360	202
2080002	CA-CNT080/UNI/IP66/S100/757	2	7	45	400	242	272	96	350	192	360	202
2080003	CA-CNT120/UNI/IP66/S100/740	2	7	45	400	321	351	96	350	271	360	281
2080004	CA-CNT120/UNI/IP66/S100/757	2	7	45	400	321	351	96	350	271	360	281
2080005	CA-CNT160/UNI/IP66/S100/740	2	7	45	400	400	430	99	350	350	360	360
2080006	CA-CNT160/UNI/IP66/S100/757	2	7	45	400	400	430	99	350	350	360	360

Ordering Information

Model	System Power	Rated Voltage	Distribution Type	Average Beam Angle	CRI Value	CCT	Optional Code
CA-CNT	120	/	UNI	/	S	100	/
	080 = 80W	UNI = AC90-305V,	S = Symmetrical	100 = 100deg.	7 = 70-79	40 = 4000K	D = Dimmable
Canotron™	120 = 120W	50-60Hz				57 = 5700K	
	160 = 160W						

Installation Guideline

1. Measure and mark the installation ceiling according to the cut size of each model.
2. Cut the ceiling following the cut size marking and smooth the cut area afterwards.
3. Insert the outer frame to the ceiling.

4. Install outer brackets to the outer frame. Adjust the position of the bracket to hold firmly the outer frame. Secure the brackets with screws and tight firmly to the outer bracket.
5. a) Connect power line (and dimmable control cable for dimmable model)
 b) Insert LED module to the installed outer frame by:
 1. Vertically insert LED module through the outer frame
 2. Flip the LED module to horizontal alignment
 3. Place the LED module on the outer frame
6. Installation is completed

Precautions

Do not attempt to repair this product yourself. Contact your nearest distributor for assistant in case of failure

LED Area Light - Zonalux™ Series

LeKise Zonalux® is an ideal choice for open-space areas, site or general lighting where sufficient illumination for activities or security enhancement is required. Adopted LED technology using Cree®SMD LED or Bridgelux® LED array which delivers outstanding performance with lumen maintenance more than 50,000 hours at L70. This is equal to 13 years¹ of service. Aesthetically designed with high quality die-cast Aluminum and industrial-grade finishing to ensure its beauty and mechanically long lasting with minimum maintenance.



Features

- ✓ Adopted Cree® SMD LED or Bridgelux® LED array² delivers outstanding performance and long life span more than 50,000 hours@L70.
- ✓ Powered by Meanwell HLG Series. Dimmable type is also available
- ✓ Aesthetic look. High build quality with industrial-grade exterior finishing
- ✓ LED light engine has IP66 protection rating against dust and water
- ✓ Adjustable angle mounting, Side mounting, Post-top mounting and Pendant mounting are available³
- ✓ Safety and environmental standards recognition
- ✓ 5 years limited warranty

Applications

- ✓ General Area Lighting
- ✓ Public/Private Area
- ✓ Open-Space Square
- ✓ Car Park
- ✓ Bicycle Way
- ✓ Predestrian Walk Way
- ✓ Decorative



¹Based on ~11 hours burning rate per day or 4,000 hours per year
²Depends on each individual model & SKU
³Depends on each individual model



Product Main Description	Input Voltage	System Power	Power Factor	LED Source	Initial Delivered Lumen			CRI (Ra)	Average Beam Angle (deg.)	NW. (kg)	GW. (kg)
					3000K	4000K	5700K				
Zonalux™ S1											
AR-ZL1030	AC110-240V	30W	≥0.95	Cree® XTE	2190	2630	2850	≥70	75 (Asym.)	8.0	8.6
AR-ZL1040	AC110-240V	40W	≥0.95	Cree® XTE	2770	3300	3600	≥70	75 (Asym.)	8.0	8.6
AR-ZL1060	AC110-240V	60W	≥0.95	Cree® XTE	5000	6010	6500	≥70	75 (Asym.)	8.2	8.8
AR-ZL1080	AC110-240V	80W	≥0.95	Cree® XTE	6100	7360	7930	≥70	75 (Asym.)	8.4	9.0

Product Picture - Zonalux™ S1

Dimensions

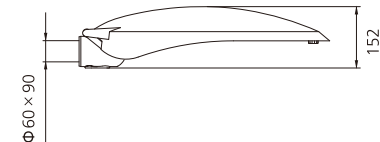
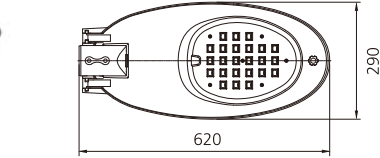
Note: Not to scale drawing. All dimensions are in mm



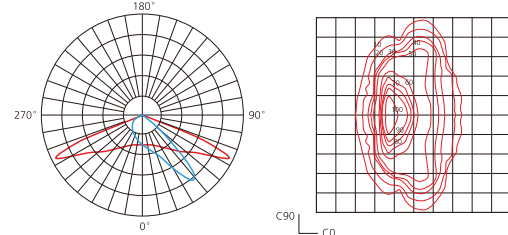
IP54

Adjustable Angle Mounting

Gray
RAL9007



Light Distribution



Product Main Description	Input Voltage	System Power	Power Factor	LED Source	Initial Delivered Lumen			CRI (Ra)	Average Beam Angle (deg.)	NW. (kg)	GW. (kg)
					3000K	4000K	5700K				
Zonalux™ S2											
AR-ZL2030	AC110-240V	30W	≥0.95	Cree® XTE	2200	2680	2900	≥70	65 (Asym.)	5.0	5.5
AR-ZL2040	AC110-240V	40W	≥0.95	Cree® XTE	2750	3350	3610	≥70	65 (Asym.)	5.0	5.5
AR-ZL2060	AC110-240V	60W	≥0.95	Cree® XTE	4900	5900	6380	≥70	65 (Asym.)	10.5	11.5
AR-ZL2080	AC110-240V	80W	≥0.95	Cree® XTE	6210	7510	8100	≥70	65 (Asym.)	10.7	11.7
AR-ZL2100	AC110-240V	100W	≥0.95	Cree® XTE	7140	8610	9300	≥70	65 (Asym.)	10.8	11.8

Product Picture - Zonalux™ S2



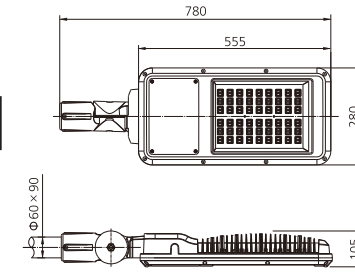
IP66

Adjustable Angle Mounting

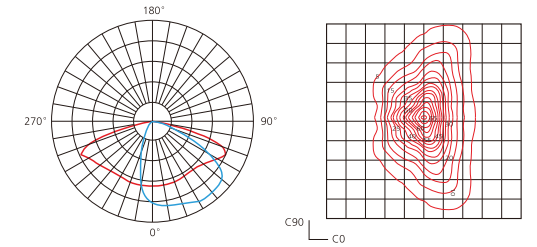
Back: Black RAL9005
Face: Gray RAL9007

Dimensions

Note: Not to scale drawing. All dimensions are in mm



Light Distribution



Product Main Description	Input Voltage	System Power	Power Factor	LED Source	Initial Delivered Lumen			CRI (Ra)	Average Beam Angle (deg.)	NW. (kg)	GW. (kg)
					3000K	4000K	5700K				
Zonalux™ S3											
AR-ZL3030	AC110-240V	30W	≥0.95	Cree® XTE	2180	2680	2900	≥70	70 (Asym.)	8.9	9.5
AR-ZL3040	AC110-240V	40W	≥0.95	Cree® XTE	2750	3350	3610	≥70	70 (Asym.)	9.0	9.6
AR-ZL3060	AC110-240V	60W	≥0.95	Cree® XTE	4950	5900	6380	≥70	70 (Asym.)	9.3	9.9
AR-ZL3080	AC110-240V	80W	≥0.95	Cree® XTE	6210	7510	8100	≥70	70 (Asym.)	9.5	10.1

Product Picture - Zonalux™ S3



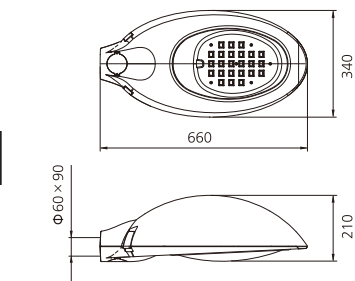
IP65

Adjustable Angle Mounting

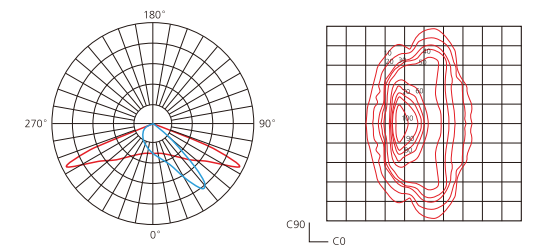
Gray
RAL9007

Dimensions

Note: Not to scale drawing. All dimensions are in mm



Light Distribution



Product Main Description	Input Voltage	System Power	Power Factor	LED Source	Initial Delivered Lumen			CRI (Ra)	Average Beam Angle (deg.)	NW. (kg)	GW. (kg)
					3000K	4000K	5700K				
Zonalux™ S4											
AR-ZL4040	AC110-240V	40W	0.95	Cree® XTE	2750	3340	3600	70	70 (Asym.)	See Below	See Below
AR-ZL4060	AC110-240V	60W	0.95	Cree® XTE	4950	5970	6430	70	70 (Asym.)	See Below	See Below
AR-ZL4080	AC110-240V	80W	0.95	Cree® XTE	6110	7380	7970	70	70 (Asym.)	See Below	See Below

Product Picture - Zonalux™ S4



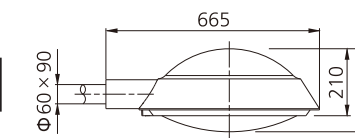
IP65

Side Mounting

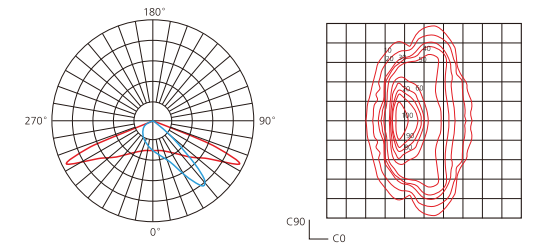
Zonalux™ S4 Black RAL9005

Dimensions

Note: Not to scale drawing. All dimensions are in mm



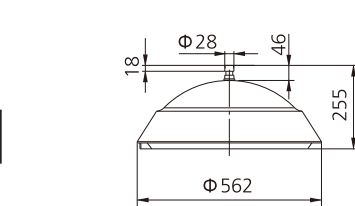
Light Distribution



IP65

Pendant Mounting

Zonalux™ S4T Black RAL9005



Product Main Description	NW. (kg)	GW. (kg)
AR-ZL4040	9.0	10.0
AR-ZL4060	9.3	10.3
AR-ZL4080	9.5	10.5
AR-ZL4040-T	8.8	9.8
AR-ZL4060-T	9.5	10.5
AR-ZL4080-T	9.8	10.8

Product Main Description	Input Voltage	System Power	Power Factor	LED Source	Initial Delivered Lumen			CRI (Ra)	Average Beam Angle (deg.)	NW. (kg)	GW. (kg)
					3000K	4000K	5700K				
Zonalux™ S5											
AR-ZL5040	AC110-240V	40W	≥0.95	Cree® XTE	2750	3340	3600	≥70	70 (Asym.)	See Below	
AR-ZL5060	AC110-240V	60W	≥0.95	Cree® XTE	4950	5970	6430	≥70	70 (Asym.)	See Below	
AR-ZL5080	AC110-240V	80W	≥0.95	Cree® XTE	6110	7380	7970	≥70	70 (Asym.)	See Below	

Product Picture - Zonalux™ S5



Adjustable Angle Mounting

IP65

Zonalux™ S5

Gray RAL9007



IP65

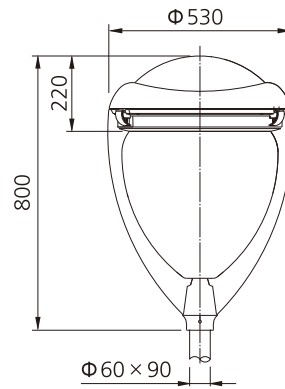
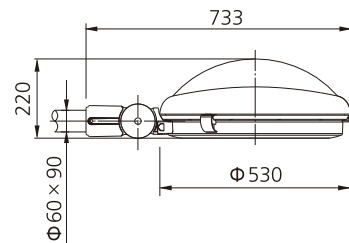
Post-top Mounting

Zonalux™ S5P

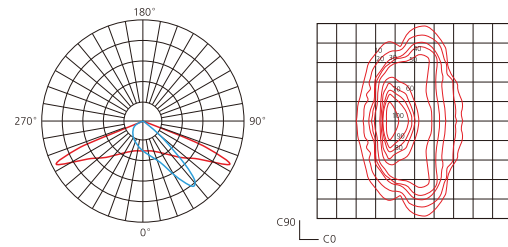
Gray RAL9007

Dimensions

Note: Not to scale drawing. All dimensions are in mm



Light Distribution



Product Main Description	NW. (kg)	GW. (kg)
AR-ZL7040	10.8	11.8
AR-ZL7060	11.2	12.2
AR-ZL7080	11.5	12.5
AR-ZL7040-P	12.3	13.3
AR-ZL7060-P	12.7	13.7
AR-ZL7080-P	13.0	14.0

Product Main Description	Input Voltage	System Power	Power Factor	LED Source	Initial Delivered Lumen			CRI (Ra)	Average Beam Angle (deg.)	NW. (kg)	GW. (kg)
					3000K	4000K	5700K				
Zonalux™ S7											
AR-ZL7040	AC110-240V	40W	≥0.95	Cree® XTE	2750	3340	3600	≥70	100 (Asym.)	See Below	
AR-ZL7060	AC110-240V	60W	≥0.95	Cree® XTE	4950	5970	6430	≥70	100 (Asym.)	See Below	

Product Picture - Zonalux™ S7



IP65

Zonalux™ S7A

Post-top Mounting
Black RAL9005



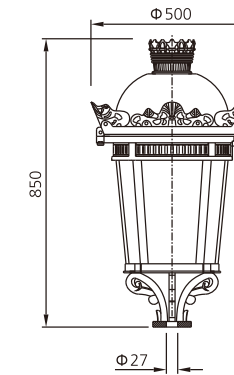
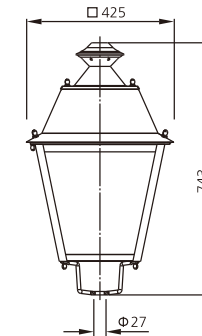
IP65

Zonalux™ S7B

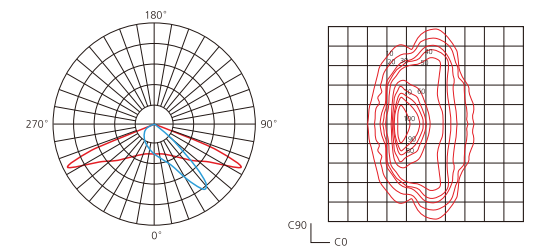
Post-top Mounting
Black RAL9005

Dimensions

Note: Not to scale drawing. All dimensions are in mm



Light Distribution



Product Main Description	NW. (kg)	GW. (kg)
AR-ZL7040-A	4.8	5.6
AR-ZL7060-A	5.5	6.3
AR-ZL7040-B	9.3	10.8
AR-ZL7060-B	10.0	11.0

Product Main Description	Input Voltage	System Power	Power Factor	LED Source	Initial Delivered Lumen			CRI (Ra)	Average Beam Angle (deg.)	NW. (kg)	GW. (kg)
					3000K	4000K	5700K				
Zonalux™ S6											
AR-ZL6020	AC110-240V	20W	≥0.95	Bridgelux® Vero	1900	2050	2100	≥70	90 (Sym.)	5.3	6.3
AR-ZL6040	AC110-240V	40W	≥0.95	Bridgelux® Vero	3890	3980	4070	≥70	90 (Sym.)	5.3	6.3

Product Picture - Zonalux™ S6



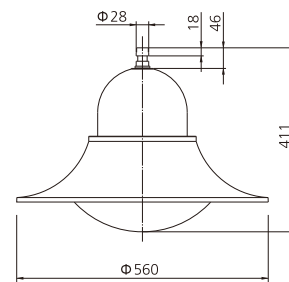
Pendant Mounting

IP65

Black RAL9005

Dimensions

Note: Not to scale drawing. All dimensions are in mm

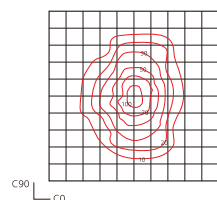
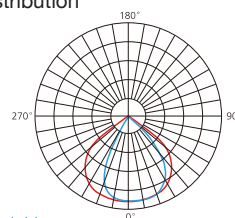


Installation Guideline For Zonalux™ S6



Note: Pole and Installation Arm are not included.

Light Distribution



Product Main Description	Input Voltage	System Power	Power Factor	LED Source	Initial Delivered Lumen			CRI (Ra)	Average Beam Angle (deg.)	NW. (kg)	GW. (kg)
					3000K	4000K	5700K				
Zonalux™ S8											
AR-ZL8020-A	AC110-240V	20W	≥0.95	Bridgelux® Vero	1000	1110	1200	≥70	100 (Sym.)	See Below	
AR-ZL8040-A	AC110-240V	40W	≥0.95	Bridgelux® Vero	2200	2350	2430	≥70	100 (Sym.)	See Below	
AR-ZL8020-B	AC110-240V	20W	≥0.95	Bridgelux® Vero	930	1010	1100	≥70	90 (Sym.)	See Below	
AR-ZL8040-B	AC110-240V	40W	≥0.95	Bridgelux® Vero	2060	2200	2340	≥70	90 (Sym.)	See Below	

Product Picture - Zonalux™ S8



IP65

Zonalux™ S8A

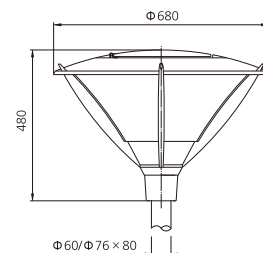
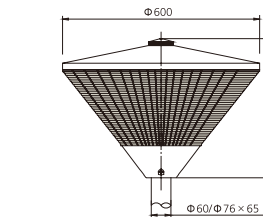
Post-top Mounting
Black RAL9005



IP65

Zonalux™ S8B

Post-top Mounting
Gray RAL9007



Product Main Description	NW. (kg)	GW. (kg)
AR-ZL8020-A	7.0	8.5
AR-ZL8040-A	7.5	9.0
AR-ZL8020-B	7.5	8.5
AR-ZL8040-B	8.0	9.0

Ordering Information

Ordering Information (Continue)

Model	Series No.	System Power	Rated Voltage	Distribution Type	Average Beam Angle	CRI Value	CCT	Optional Code
AR-ZL	1	040	/ UNI	/ A	070	/ 7	57	/ X
	1 = S1	020 = 20W	UNI = AC110-240V,	A = Asymmetrical	070 = 70deg.	7 = 70-79	30 = 3000K	• Sub-Series
	2 = S2	030 = 30W	50-60Hz	S = Symmetrical	075 = 75deg.		40 = 4000K	• Dimmable
	3 = S3	040 = 40W			090 = 90deg.		57 = 5700K	• Color Code
Zonalux™	4 = S4	060 = 60W			100 = 100deg.			
	5 = S5	080 = 80W						
	6 = S6	100 = 100W						
	7 = S7							
	8 = S8							

Product Code	Product Description	Product Code	Product Description
2050001	AR-ZL1030/UNI/A075/730	2050039	AR-ZL3080/UNI/A070/757
2050002	AR-ZL1030/UNI/A075/740	2050040	AR-ZL4040/UNI/A070/730
2050003	AR-ZL1030/UNI/A075/757	2050041	AR-ZL4040/UNI/A070/740
2050004	AR-ZL1040/UNI/A075/730	2050042	AR-ZL4040/UNI/A070/757
2050005	AR-ZL1040/UNI/A075/740	2050043	AR-ZL4060/UNI/A070/730
2050006	AR-ZL1040/UNI/A075/757	2050044	AR-ZL4060/UNI/A070/740
2050007	AR-ZL1060/UNI/A075/730	2050045	AR-ZL4060/UNI/A070/757
2050008	AR-ZL1060/UNI/A075/740	2050046	AR-ZL4080/UNI/A070/730
2050009	AR-ZL1060/UNI/A075/757	2050047	AR-ZL4080/UNI/A070/740
2050010	AR-ZL1080/UNI/A075/730	2050048	AR-ZL4080/UNI/A070/757
2050011	AR-ZL1080/UNI/A075/740	2050049	AR-ZL4040/UNI/A070/730/T
2050012	AR-ZL1080/UNI/A075/757	2050050	AR-ZL4040/UNI/A070/740/T
2050013	AR-ZL2030/UNI/A065/730	2050051	AR-ZL4040/UNI/A070/757/T
2050014	AR-ZL2030/UNI/A065/740	2050052	AR-ZL4060/UNI/A070/730/T
2050015	AR-ZL2030/UNI/A065/757	2050053	AR-ZL4060/UNI/A070/740/T
2050016	AR-ZL2040/UNI/A065/730	2050054	AR-ZL4060/UNI/A070/757/T
2050017	AR-ZL2040/UNI/A065/740	2050055	AR-ZL4080/UNI/A070/730/T
2050018	AR-ZL2040/UNI/A065/757	2050056	AR-ZL4080/UNI/A070/740/T
2050019	AR-ZL2060/UNI/A065/730	2050057	AR-ZL4080/UNI/A070/757/T
2050020	AR-ZL2060/UNI/A065/740	2050058	AR-ZL5040/UNI/A070/730
2050021	AR-ZL2060/UNI/A065/757	2050059	AR-ZL5040/UNI/A070/740
2050022	AR-ZL2080/UNI/A065/730	2050060	AR-ZL5040/UNI/A070/757
2050023	AR-ZL2080/UNI/A065/740	2050061	AR-ZL5060/UNI/A070/730
2050024	AR-ZL2080/UNI/A065/757	2050062	AR-ZL5060/UNI/A070/740
2050025	AR-ZL2100/UNI/A065/730	2050063	AR-ZL5060/UNI/A070/757
2050026	AR-ZL2100/UNI/A065/740	2050064	AR-ZL5080/UNI/A070/730
2050027	AR-ZL2100/UNI/A065/757	2050065	AR-ZL5080/UNI/A070/740
2050028	AR-ZL3030/UNI/A070/730	2050066	AR-ZL5080/UNI/A070/757
2050029	AR-ZL3030/UNI/A070/740	2050067	AR-ZL5040/UNI/A070/730/P
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2050033	AR-ZL3040/UNI/A070/757	2050071	AR-ZL5060/UNI/A070/740/P
2050034	AR-ZL3060/UNI/A070/730	2050072	AR-ZL5060/UNI/A070/757/P
2050035	AR-ZL3060/UNI/A070/740	2050073	AR-ZL5080/UNI/A070/730/P
2050036	AR-ZL3060/UNI/A070/757	2050074	AR-ZL5080/UNI/A070/740/P
2050037	AR-ZL3080/UNI/A070/730	2050075	AR-ZL5080/UNI/A070/757/P
2050038	AR-ZL3080/UNI/A070/740	2050076	AR-ZL6020/UNI/S090/730

Product Code	Product Description	Product Code	Product Description
2050077	AR-ZL6020/UNI/S090/740	2050092	AR-ZL7060/UNI/A100/740/B
2050078	AR-ZL6020/UNI/S090/750	2050093	AR-ZL7060/UNI/A100/757/B
2050079	AR-ZL6040/UNI/S090/730	2050094	AR-ZL8020/UNI/S100/730/A
2050080	AR-ZL6040/UNI/S090/740	2050095	AR-ZL8020/UNI/S100/740/A
2050081	AR-ZL6040/UNI/S090/750	2050096	AR-ZL8020/UNI/S100/750/A
2050082	AR-ZL7040/UNI/A100/730/A	2050097	AR-ZL8040/UNI/S100/730/A
2050083	AR-ZL7040/UNI/A100/740/A	2050098	AR-ZL8040/UNI/S100/740/A
2050084	AR-ZL7040/UNI/A100/757/A	2050099	AR-ZL8040/UNI/S100/750/A
2050085	AR-ZL7060/UNI/A100/730/A	2050100	AR-ZL8020/UNI/S090/730/B
2050086	AR-ZL7060/UNI/A100/740/A	2050101	AR-ZL8020/UNI/S090/740/B
2050087	AR-ZL7060/UNI/A100/757/A	2050102	AR-ZL8020/UNI/S090/750/B
2050088	AR-ZL7040/UNI/A100/730/B	2050103	AR-ZL8040/UNI/S090/730/B
2050089	AR-ZL7040/UNI/A100/740/B	2050104	AR-ZL8040/UNI/S090/740/B
2050090	AR-ZL7040/UNI/A100/757/B	2050105	AR-ZL8040/UNI/S090/750/B
2050091	AR-ZL7060/UNI/A100/730/B		



Safety Precautions

1. Risk of electrical shock. Disconnect power before install or service this product
2. Risk of injury or damage. Unit may fall if product is not installed properly. Follow strictly installation instructions.
3. Risk of injury. Wear safely glasses and gloves during installation and servicing
4. Study the detail in installation manual completely and carefully before install and use this product.
5. Do not attempt to repair this product yourself. Contact your nearest distributor for assistant in case of failure

LED Street Light - Black™

A professional range of LED street light which brings the roadway safety to the highest level and significantly save worldwide energy resources. Constructed of die cast Aluminum alloy body with IP65 protection rating makes it suitable perfectly for any roadway lighting environment. Using original Cree® LED array light source with direct heat transfer design, the LED life span can be achieved more than 50,000 hours at L70.



Features

- ✓ Adopted original Cree® LED SMD and high performance delivered outstanding performance up to 100lm/W¹
- ✓ Direct transfer heat sink design enables maximum LED life span lumen maintenance more than 50,000 hours@L70(9k)
- ✓ Robust Aluminum alloy body and stainless steel fixation components
- ✓ Operating ambient: -40°C to +55°C, 10 to 95%RH
- ✓ IP65 protection rating against dust and water
- ✓ Safety and environmental standards recognition
- ✓ DC model are compatible with solar system.

Applications

- ✓ Freeway
- ✓ Area Light
- ✓ Major Roadway
- ✓ Local Roadway

¹Under laboratory environment and applicable for specific model



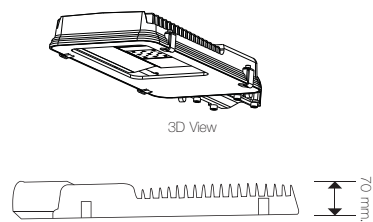
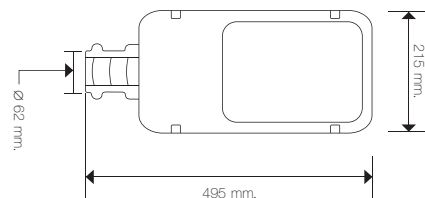
Product Code	Product Description	Input Voltage	System Power	Power Factor	Initial Lumen	Nominal CCT ² (K)	CRI (Ra)	LED Life Span @L70 ³ (hrs)
Black™ AC								
FG-PD-07-057	ST-BL/AC/015/765/Q115	AC90-305V	15W	≥0.95	1400	6500	≥70	>50,000
FG-PD-07-058	ST-BL/AC/018/765/Q115	AC90-305V	18W	≥0.95	1600	6500	≥70	>50,000
FG-PD-07-059	ST-BL/AC/020/765/Q115	AC90-305V	20W	≥0.95	1750	6500	≥70	>50,000
FG-PD-07-060	ST-BL/AC/025/765/Q115	AC90-305V	25W	≥0.95	2050	6500	≥70	>50,000
FG-PD-07-061	ST-BL/AC/030/765/Q115	AC90-305V	30W	≥0.95	2650	6500	≥70	>50,000
FG-PD-07-062	ST-BL/AC/035/765/Q115	AC90-305V	35W	≥0.95	3100	6500	≥70	>50,000
Black™ DC								
FG-PD-07-063	ST-BL/DC/015/765/Q115	DC12V	15W	1	1400	6500	≥70	>50,000
FG-PD-07-064	ST-BL/DC/018/765/Q115	DC12V	18W	1	1600	6500	≥70	>50,000
FG-PD-07-065	ST-BL/DC/020/765/Q115	DC12V	20W	1	1750	6500	≥70	>50,000
FG-PD-07-066	ST-BL/DC/025/765/Q115	DC12V	25W	1	2050	6500	≥70	>50,000
FG-PD-07-067	ST-BL/DC/030/765/Q115	DC12V	30W	1	2650	6500	≥70	>50,000
FG-PD-07-068	ST-BL/DC/035/765/Q115	DC12V	35W	1	3100	6500	≥70	>50,000

¹Nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

²Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Drawing

Note: All dimensions are in mm

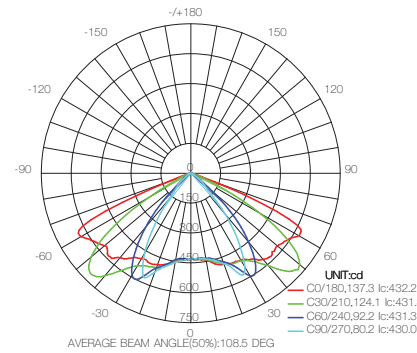


Photometric data

Below data for ST-BLK/AC/015/765. Contact LeKise's representative for photometric information of each individual model.

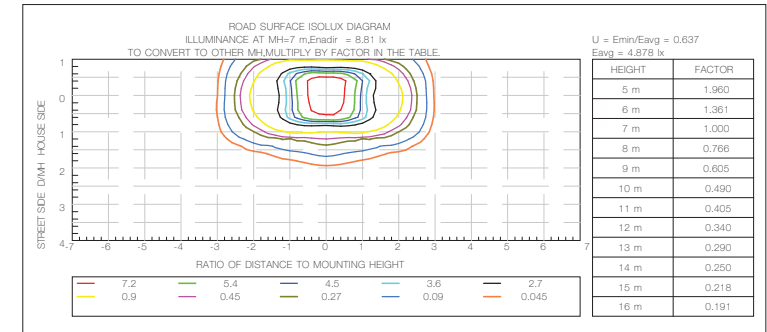
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:



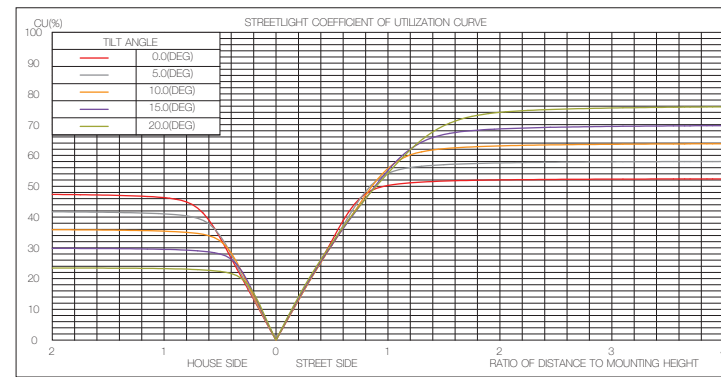
Isolux Diagram

The following images depict the Isolux diagram characteristics of the luminaire:

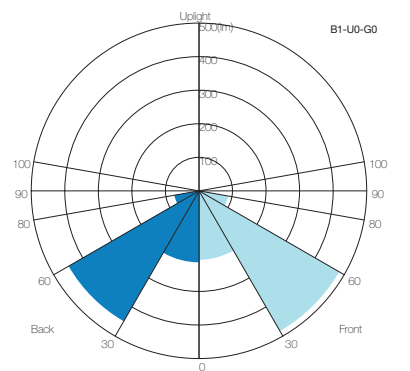


Coefficient of utilization curve

The following images depict the streetlight CU curve of the luminaire:

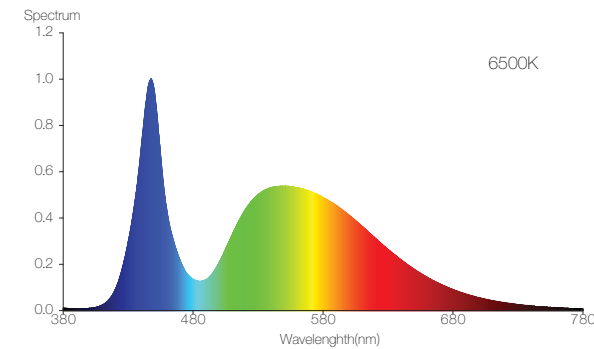


Luminaire classification system(LCS) graph



Spectral Power Distribution

The following images depict relative spectral power distribution characteristics of the lamp:



! Safety Precautions

1. Risk of electrical shock. Disconnect power before install or service this product
2. Risk of injury or damage. Unit may fall if product is not installed properly. Follow strictly installation instructions.
3. Risk of injury. Wear safely glasses and gloves during installation and servicing
4. Study the detail in installation manual completely and carefully before install and use this product.
5. Do not attempt to repair this product yourself. Contact your nearest distributor for assistant in case of failure

LED Street Light - TEKKA

A professional range of LED street light which brings the roadway safety to the highest level and significantly save worldwide energy resources. Constructed of die cast Aluminum body with IP66 protection rating makes it suitable perfectly for any roadway lighting environment. Using original LUXEON®TX light source with direct heat transfer design, the LED life span can be achieved more than 50,000 hours at L70.



Features

- ✓ Adopted original LUXEON®TX and high performance glass optic deliver outstanding performance up to 100lm/W¹.
- ✓ Direct transfer heat sink design enables maximum LED life span lumen maintenance more than 50,000 hours.
- ✓ Robust Die casting aluminum body.
- ✓ Operating ambient: -10°C to +50°C, 10 to 95%RH.
- ✓ IP66 protection rating against dust and water.
- ✓ Safety and environmental standards recognition.
- ✓ Easy maintenance with led module including connector.

¹Under laboratory environment and applicable for specific model

Applications

- ✓ Freeway
- ✓ Expressway
- ✓ Major Roadway
- ✓ Local Roadway

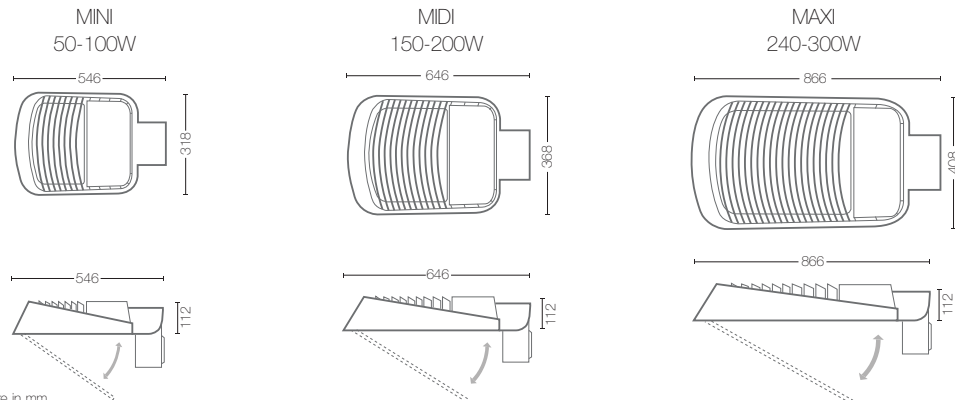


Product Description	Input Voltage	System Power	Initial Lumen	Nominal CCT ² (K)	CRI (Ra)	THDi	Power Factor	LED Life Span @L70 ³ (hrs)	Weight (kg)
TEKKA MINI									
ST-TK050/AC/T2S/757	AC90-305V	50W	5,530	5,700	≥70	≤20	≥0.9	>50,000	8.0
ST-TK070/AC/T2S/757	AC90-305V	70W	6,930	5,700	≥70	≤20	≥0.9	>50,000	8.0
ST-TK100/AC/T2S/757	AC90-305V	100W	9,100	5,700	≥70	≤20	≥0.9	>50,000	8.0
TEKKA MIDI									
ST-TK150/AC/T2S/757	AC90-305V	150W	15,300	5,700	≥70	≤20	≥0.9	>50,000	12.0
ST-TK200/AC/T2S/757	AC90-305V	200W	19,000	5,700	≥70	≤20	≥0.9	>50,000	12.0
TEKKA MAXI									
ST-TK240/AC/T2S/757	AC90-305V	240W	25,680	5,700	≥70	≤20	≥0.9	>50,000	15.0
ST-TK300/AC/T2S/757	AC90-305V	300W	30,600	5,700	≥70	≤20	≥0.9	>50,000	15.0

²TEKKA with a given nominal CCT shall have the defined target CCT according to ANSI ANSLG C78.377-2011(Table1)

³Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Drawing



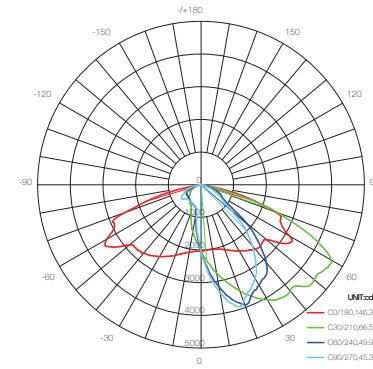
Note: All dimensions are in mm

Photometric data

Below data for guide. Contact LeKise's representative for photometric information of each individual model.

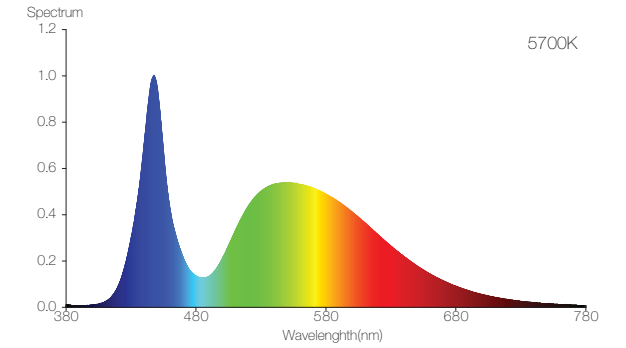
Luminous Intensity Distribution

The following images depict the luminous intensity distribution characteristics of the luminaire:



Spectral Power Distribution

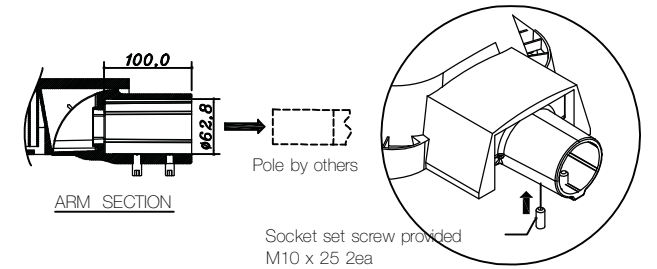
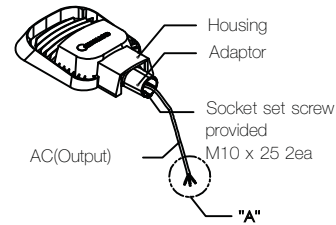
The following images depict relative spectral power distribution characteristics of the lamp:



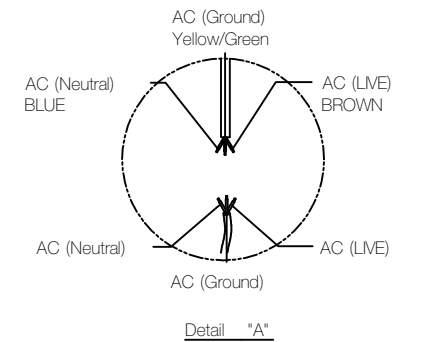
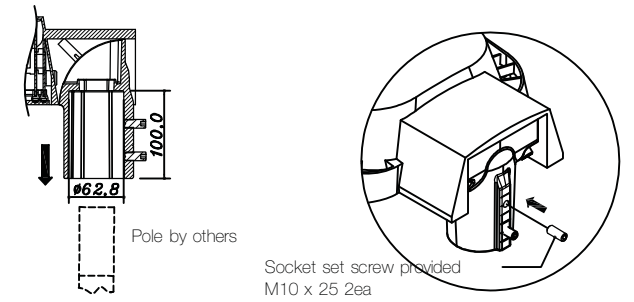
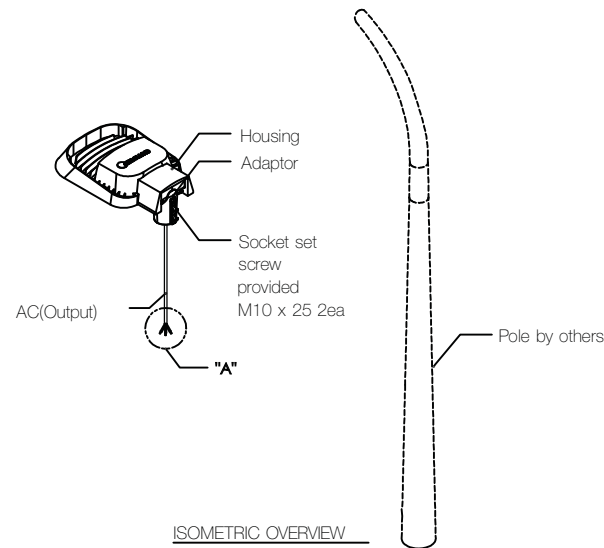
Installation

Installation guide for 100W. Contact LeKise's representative for each model information.

CASE 1



CASE 2



Safety Precautions

1. Risk of electrical shock. Disconnect power before install or service this product
2. Risk of injury or damage. Unit may fall if product is not installed properly. Follow strictly installation instructions.
3. Risk of injury. Wear safety glasses and gloves during installation and servicing
4. Study the detail in installation manual completely and carefully before install and use this product.
5. Do not attempt to repair this product yourself. Contact your nearest distributor for assistant in case of failure

LED Street Light - Novalux™ Pro

A professional range of LED street light which brings the roadway safety to the highest level and significantly save worldwide energy resources. Constructed of die cast Aluminum alloy body with IP66 protection rating makes it suitable perfectly for any roadway lighting environment. Using original Bridgelux® LED array light source with direct heat transfer design, the LED life span can be achieved more than 50,000hours at L70 which equivalent to 12.5 years¹. CCT from 3000K to 5000K are available.



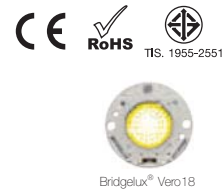
Features

- ✓ Adopted original Bridgelux® LED array and high performance glass optic deliver outstanding performance up to 127lm/W²
- ✓ Direct transfer heat sink design enables maximum LED life span lumen maintenance more than 50,000 hours@L70(9k)
- ✓ Robust Aluminum alloy body and stainless steel fixation components
- ✓ Operating ambient: -40°C to +55°C, 10 to 95%RH
- ✓ IP66 protection rating against dust and water
- ✓ Safety and environmental standards recognition
- ✓ 5 years limited warranty

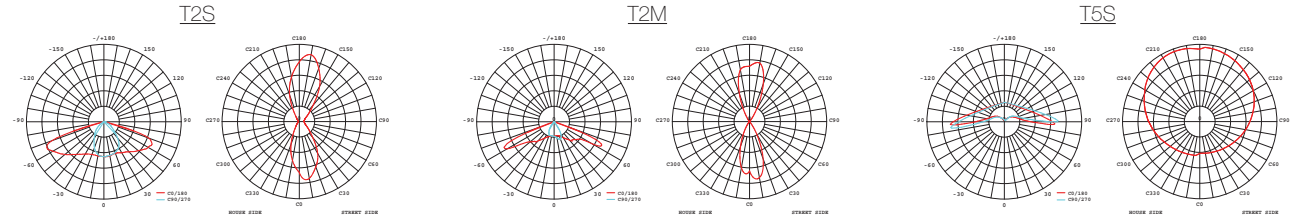
¹Based on ~11 hours burning rate per day or 4,000 hours per year
²Under laboratory environment and applicable for specific model

Applications

- ✓ Freeway
- ✓ Expressway
- ✓ Major Roadway
- ✓ Local Roadway



Light Distribution Patterns



Ordering information

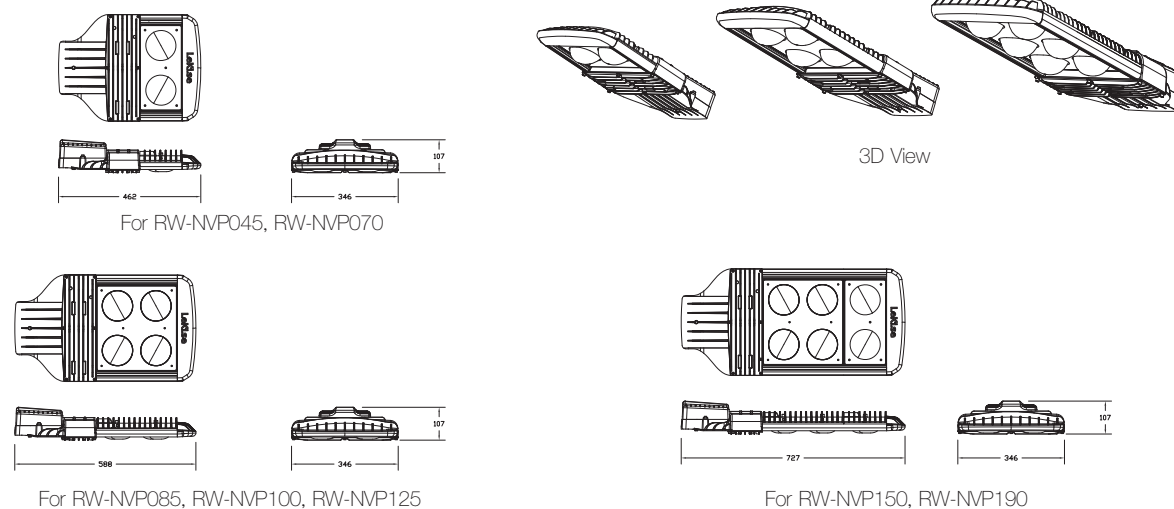
Model	System Power	Rated Voltage	Optical Properties		CRI Value	CCT
			Light Distribution	Cutoff		
RW-NVP	085	/	UNI	/	7	50
	045 = 45W	UNI = 90-305VAC,	T2S	SC = Semi Cutoff	7 = 70-79	30 = 3000K
	070 = 70W	50-60Hz	T2M	CO = Cutoff		40 = 4000K
	085 = 85W		T5S			50 = 5000K
Novalux™ Pro	100 = 100W					
	125 = 125W					
	150 = 150W					
	190 = 190W					

Product Main Description	Input Voltage	System Power	Power Factor	Initial Delivered Lumen			CRI (Ra)	LED Life Span @L70 ² (hrs)	NW. (kg)	GW. (kg)
				3000K	4000K	5000K				
Novalux™ Pro										
RW-NVP045	AC90-305V	45W	≥0.95	4500	4770	5355	≥70	>50,000	7.2	8.5
RW-NVP070	AC90-305V	70W	≥0.95	6270	6720	7980	≥70	>50,000	7.2	8.5
RW-NVP085	AC90-305V	85W	≥0.95	8925	9435	10795	≥70	>50,000	10.0	11.5
RW-NVP100	AC90-305V	100W	≥0.95	10400	11000	12200	≥70	>50,000	10.0	11.5
RW-NVP125	AC90-305V	125W	≥0.95	12250	13000	14875	≥70	>50,000	10.0	11.5
RW-NVP150	AC90-305V	150W	≥0.95	16050	16950	18300	≥70	>50,000	13.0	14.5
RW-NVP190	AC90-305V	190W	≥0.95	19190	20330	22230	≥70	>50,000	13.0	14.5

²Based on IES LM-80-08 report from LED's manufacturer and IES TM-21-11 calculation. Contact LeKise's representative for more information.

Dimensions

Note: All dimensions are in mm



Product Code	Product Description	Product Code	Product Description	Product Code	Product Description	Product Code	Product Description
2010226	RW-NVP045/UNI/T2S/SC/730	2010248	RW-NVP070/UNI/T5S/SC/740	2010270	RW-NVP100/UNI/T2M/SC/750	2010292	RW-NVP150/UNI/T2M/SC/730
2010227	RW-NVP045/UNI/T2S/SC/740	2010249	RW-NVP070/UNI/T5S/SC/750	2010271	RW-NVP100/UNI/T5S/SC/730	2010293	RW-NVP150/UNI/T2M/SC/740
2010228	RW-NVP045/UNI/T2S/SC/750	2010250	RW-NVP085/UNI/T2S/SC/730	2010272	RW-NVP100/UNI/T5S/SC/740	2010294	RW-NVP150/UNI/T2M/SC/750
2010229	RW-NVP045/UNI/T2S/CO/730	2010251	RW-NVP085/UNI/T2S/SC/740	2010273	RW-NVP100/UNI/T5S/SC/750	2010295	RW-NVP150/UNI/T5S/SC/730
2010230	RW-NVP045/UNI/T2S/CO/740	2010252	RW-NVP085/UNI/T2S/SC/750	2010274	RW-NVP125/UNI/T2S/SC/730	2010296	RW-NVP150/UNI/T5S/SC/740
2010231	RW-NVP045/UNI/T2S/CO/750	2010253	RW-NVP085/UNI/T2S/CO/730	2010275	RW-NVP125/UNI/T2S/SC/740	2010297	RW-NVP150/UNI/T5S/SC/750
2010232	RW-NVP045/UNI/T2M/SC/730	2010254	RW-NVP085/UNI/T2S/CO/740	2010276	RW-NVP125/UNI/T2S/SC/750	2010298	RW-NVP190/UNI/T2S/SC/730
2010233	RW-NVP045/UNI/T2M/SC/740	2010255	RW-NVP085/UNI/T2S/CO/750	2010277	RW-NVP125/UNI/T2S/CO/730	2010299	RW-NVP190/UNI/T2S/SC/740
2010234	RW-NVP045/UNI/T2M/SC/750	2010256	RW-NVP085/UNI/T2M/SC/730	2010278	RW-NVP125/UNI/T2S/CO/740	2010300	RW-NVP190/UNI/T2S/SC/750
2010235	RW-NVP045/UNI/T5S/SC/730	2010257	RW-NVP085/UNI/T2M/SC/740	2010279	RW-NVP125/UNI/T2S/CO/750	2010301	RW-NVP190/UNI/T2S/CO/730
2010236	RW-NVP045/UNI/T5S/SC/740	2010258	RW-NVP085/UNI/T2M/SC/750	2010280	RW-NVP125/UNI/T2M/SC/730	2010302	RW-NVP190/UNI/T2S/CO/740
2010237	RW-NVP045/UNI/T5S/SC/750	2010259	RW-NVP085/UNI/T5S/SC/730	2010281	RW-NVP125/UNI/T2M/SC/740	2010303	RW-NVP190/UNI/T2S/CO/750
2010238	RW-NVP070/UNI/T2S/SC/730	2010260	RW-NVP085/UNI/T5S/SC/740	2010282	RW-NVP125/UNI/T2M/SC/750	2010304	RW-NVP190/UNI/T2M/SC/730
2010239	RW-NVP070/UNI/T2S/SC/740	2010261	RW-NVP085/UNI/T5S/SC/750	2010283	RW-NVP125/UNI/T5S/SC/730	2010305	RW-NVP190/UNI/T2M/SC/740
2010240	RW-NVP070/UNI/T2S/SC/750	2010262	RW-NVP100/UNI/T2S/SC/730	2010284	RW-NVP125/UNI/T5S/SC/740	2010306	RW-NVP190/UNI/T2M/SC/750
2010241	RW-NVP070/UNI/T2S/CO/730	2010263	RW-NVP100/UNI/T2S/SC/740	2010285	RW-NVP125/UNI/T5S/SC/750	2010307	RW-NVP190/UNI/T5S/SC/730
2010242	RW-NVP070/UNI/T2S/CO/740	2010264	RW-NVP100/UNI/T2S/SC/750	2010286	RW-NVP150/UNI/T2S/SC/730	2010308	RW-NVP190/UNI/T5S/SC/740
2010243	RW-NVP070/UNI/T2S/CO/750	2010265	RW-NVP100/UNI/T2S/CO/730	2010287	RW-NVP150/UNI/T2S/SC/740	2010309	RW-NVP190/UNI/T5S/SC/750
2010244	RW-NVP070/UNI/T2M/SC/730	2010266	RW-NVP100/UNI/T2S/CO/740	2010288	RW-NVP150/UNI/T2S/SC/750		
2010245	RW-NVP070/UNI/T2M/SC/740	2010267	RW-NVP100/UNI/T2S/CO/750	2010289	RW-NVP150/UNI/T2S/CO/730		
2010246	RW-NVP070/UNI/T2M/SC/750	2010268	RW-NVP100/UNI/T2M/SC/730	2010290	RW-NVP150/UNI/T2S/CO/740		
2010247	RW-NVP070/UNI/T5S/SC/730	2010269	RW-NVP100/UNI/T2M/SC/740	2010291	RW-NVP150/UNI/T2S/CO/750		

⚠ Safety Precautions

1. Risk of electrical shock. Disconnect power before install or service this product
2. Risk of injury or damage. Unit may fall if product is not installed properly. Follow strictly installation instructions.
3. Risk of injury. Wear safety glasses and gloves during installation and servicing
4. Study the detail in installation manual completely and carefully before install and use this product.
5. Do not attempt to repair this product yourself. Contact your nearest distributor for assistant in case of failure

LED Solar Road Reflective Marker - Novaflash™

LeKise Novaflash™ a robust and maintenance-free solar rechargeable LED road reflective marker provides excellent roadway visibility and traffic guidance during low ambient light or foggy conditions. A combination of sophisticated solar energy harvesting and power storage using “super-capacitor” avoids associated problems with traditional battery or electric powered markers. Using built-in sensor automatically turn-on when it starts getting dark and last for up to 16hours turn-off to ensure maximum energy store for next full duty-cycle. It comes with 3 sizes in which suitable for each final application not limited to roadway traffic such as residential street, car park, factory, etc.



Features

- ✓ Built-in maintenance-free solar cell and super-capacitor provide absolute no wire connection and continuous operation without any interruption
- ✓ Built-in ambient light sensor monitors and activate the LED only when ambient light below the factory preset level
- ✓ Robust engineering plastic construction withstands up to 6.5 Ton-force (static)²
- ✓ IPX7 protection rating against dust and water
- ✓ Safety & Environmental standards recognition
- ✓ 1 year standard warranty³

Applications

- ✓ Roadways
- ✓ Pavement markings for no entrance warning
- ✓ Center divider and crosswalks at intersections
- ✓ Sharp curves, mountain roads
- ✓ Blind corners or
- ✓ Accident black spots
- ✓ Car parking slot divider



Product Code	Product Description	Dimension (mm.)	LED Power/Type	LED Color	Typical Light Flashing Pattern	Working Temperature	Weight (kg/pc)	Qty /Ctn
Novaflash™								
2010217	RW-NVF058/RED	Ø58x52	0.06W DIP	Red	t _{on} 100ms/t _{off} 400ms	-20°C to +60°C	0.13	60
2010218	RW-NVF058/WHITE	Ø58x52	0.06W DIP	White	t _{on} 100ms/t _{off} 400ms	-20°C to +60°C	0.13	60
2010219	RW-NVF058/YELLOW	Ø58x52	0.06W DIP	Yellow	t _{on} 100ms/t _{off} 400ms	-20°C to +60°C	0.13	60
2010220	RW-NVF108/RED	Ø108x75	0.06W DIP	Red	t _{on} 140ms/t _{off} 400ms	-20°C to +60°C	0.5	12
2010221	RW-NVF108/WHITE	Ø108x75	0.06W DIP	White	t _{on} 140ms/t _{off} 400ms	-20°C to +60°C	0.5	12
2010222	RW-NVF108/YELLOW	Ø108x75	0.06W DIP	Yellow	t _{on} 140ms/t _{off} 400ms	-20°C to +60°C	0.5	12
2010223	RW-NVF115/RED	Ø115x82	0.06W DIP	Red	t _{on} 140ms/t _{off} 400ms	-20°C to +60°C	0.6	12
2010224	RW-NVF115/WHITE	Ø115x82	0.06W DIP	White	t _{on} 140ms/t _{off} 400ms	-20°C to +60°C	0.6	12
2010225	RW-NVF115/YELLOW	Ø115x82	0.06W DIP	Yellow	t _{on} 140ms/t _{off} 400ms	-20°C to +60°C	0.6	12

¹Based on 8 hours exposure to daytime outdoor ambient light condition

²Under laboratory test conditions

³Free from any manufacturing defect.

! Safety Precautions

1. Study the detail in installation instructions completely and carefully before installing and using the product.
2. Do not remove or tamper the product. Tampering may compromise IPX7 rating and result a water penetration inside the product
3. Do not attempt to repair this product. Contact your nearest distributor for assistance in case of failure.



LED STREET LIGHT - SOLAR SERIES

Solar street lights are raised light sources which are powered by photovoltaic panels generally mounted on the lighting structure. The photovoltaic panels charge a rechargeable battery, which powers a LED lamp during the night. Solar panels turn on and turn off automatically by sensing outdoor light using a light source. Solar streetlights are designed to work throughout the night. can stay lit for more than one night if the sun is not available for a couple of days.



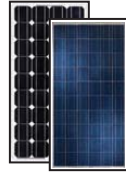
LED Street Light - Black



Charge Controller



Solar Cell Module



Solar Battery



Features

- ✓ High efficiency electronic circuitry.
- ✓ Perfect design, Easy Installation
- ✓ Automatic identify or user-defined working voltage.
- ✓ Automatic dawn dusk operation (with timer-optional)
- ✓ High efficient Series PWM charging, increase the battery lifetime and improve the solar system performance.
- ✓ High reliability and durability

Solar Battery



12V 40-75AH



12V 100AH

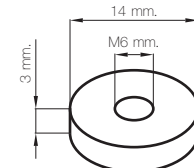
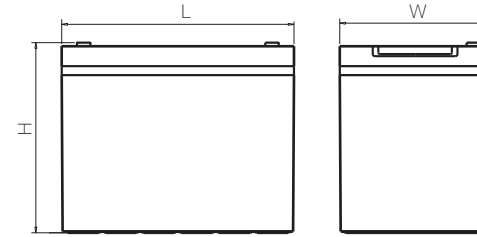


12V 120AH

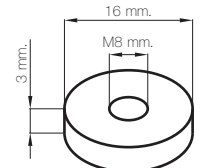


12V 150AH

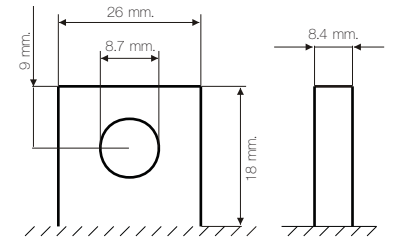
Dimension



Terminal Dimensions
40AH/75AH/100AH



Terminal Dimensions
120AH



Terminal Dimensions
150AH

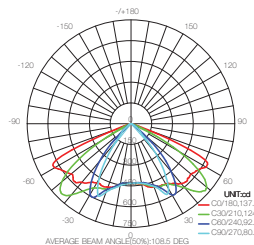
Battery	DESCRIPTION (mm.)			Weight (kg.)
	W	L	H	
12V 40Ah	165	197	170	13
12V 75Ah	168	260	214	22.5
12V 100Ah	171	330	220	31
12V 120Ah	174	406	233	36
12V 150Ah	172	485	240	46



Product Description	System Power	Initial Lumen(lm)	Nominal CCT (K)	CRI (Ra)	Solar cell Module	Charge Controller	Battery	Battery Backup	Pole (m.)
LED Street light SOLAR Series - Low Power									
LK-SLST-015-12V-Pxx	15W	1,400	6,500	≥70	80W	IP67 12V/10A	12V 40AH	2 Day.	3-6
LK-SLST-018-12V-Pxx	18W	1,600	6,500	≥70	80W	IP67 12V/10A	12V 40AH	2 Day.	3-6
LK-SLST-020-12V-Pxx	20W	1,750	6,500	≥70	80W	IP67 12V/20A	12V 75AH	2 Day.	3-6
LK-SLST-025-12V-Pxx	25W	2,050	6,500	≥70	130W	IP67 12V/20A	12V 75AH	2 Day.	3-6
LK-SLST-030-12V-Pxx	30W	2,650	6,500	≥70	140W	IP67 12V/20A	12V 100AH	2 Day.	3-6
LK-SLST-035-12V-Pxx	35W	3,100	6,500	≥70	140W	IP67 12V/20A	12V 100AH	2 Day.	3-6
LED Street light SOLAR Series - High Power									
LK-SLST-050-48V-Pxx	50W	5,530	6,000	≥70	250W	MPPT 20A	12V 75AHx2	2 Day.	8-12
LK-SLST-070-48V-Pxx	70W	6,930	6,000	≥70	250W	MPPT 20A	12V 100AHx2	2 Day.	8-12
LK-SLST-085-48V-Pxx	85W	8,700	6,000	≥70	2x250W	MPPT 30A	12V 120AHx2	2 Day.	8-12
LK-SLST-100-48V-Pxx	100W	9,100	6,000	≥70	2x250W	MPPT 30A	12V 150AHx2	2 Day.	8-12

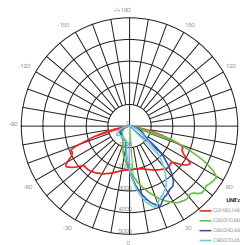
LED Street Light - Black™

Refer performance to LED Street Light - Black lamps in page 73-74.



LED Street Light - TEKKA

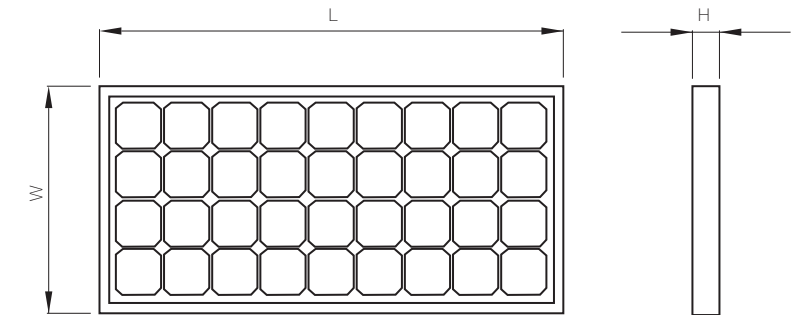
Refer performance to LED Street Light - TEKKA lamps in page 75-76.



Solar Cell Module



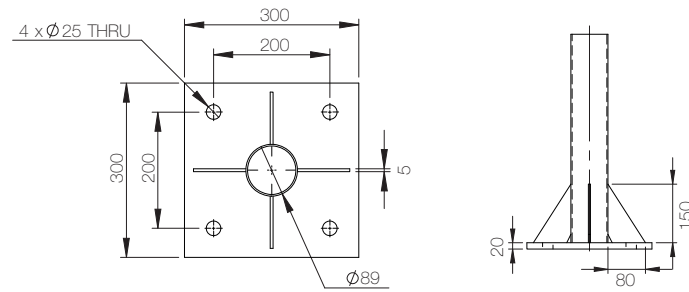
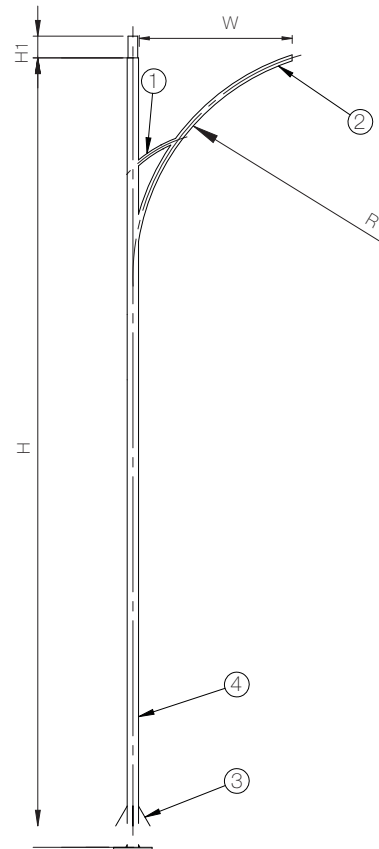
Dimension



Solar cell Module	DESCRIPTION (mm.)			Weight (kg.)
	W	L	H	
80W	540	1200	30	8
130W	680	1490	35	12
140W	680	1490	35	12
250W	992	1640	40	19



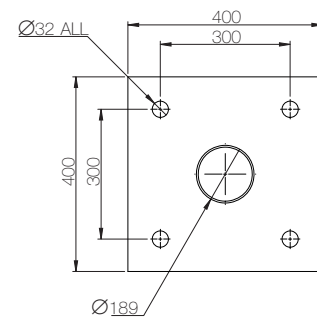
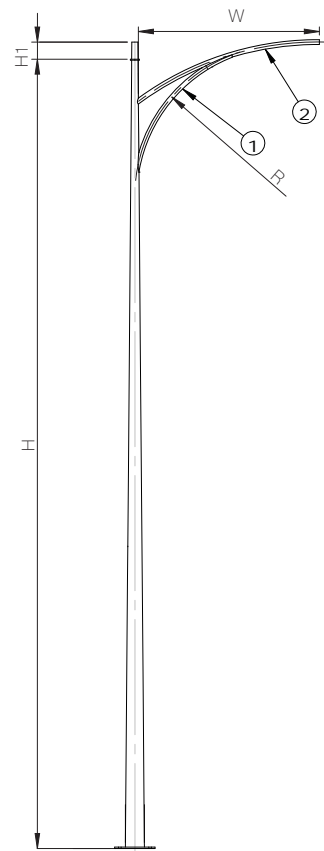
Pole for Low power



Pole (mm.)	DESCRIPTION (mm.)			
	H	H1	W	R
3000	2830	170	1000	1350
4000	3830	170	1200	1800
6000	5830	170	1200	1800

ITEM NO.	PART NUMBER	DESCRIPTION
1	POR-1E	Pipe OD60.5 x R1000 x 2.9t
2	POR-2E	Pipe OD60.5 x R1800 x 2.3t
3	PT-3E	Plate 80 x 150 x 5t
4	POR-4E	Pipe OD 89 x 2.9t

Pole for High power



Pole (mm.)	DESCRIPTION (mm.)			
	H	H1	W	R
8000	7830	170	1000	1500
9000	8800	200	1200	1800
12000	11800	200	1200	1800

ITEM NO.	PART NUMBER	DESCRIPTION
1	POR-1E	Pipe OD60.5 x R1500 x 2.9t
2	POR-2E	Pipe OD60.5 x R3000 x 2.3t



LeKise

Chiang Rai Province



Driver & Control

Sensor Series SenseMini™	87
LED Driver DRV68	91



SenseMini™



DRV68
30W/60W/100W/150W



BlueFin
100W - 1000W



YellowFin 600
600W

Fishing Lamp

LED BlueFin™	93
LED YellowFin™	98

Miniature Microwave Motion Sensor Series - SenseMini™

SenseMini™ Series - a miniature microwave motion sensor provides automatic control of lighting loads adding safety, values, convenience, and additional energy savings. Unlike Passive Infrared Sensor (PIR), it detects movement using a microwave sensor and turns the load on or dim¹ the load to the preset dimming level providing sufficient safety or security while saving energy. In addition, the ambient light sensor is also integrated to determine the surrounding light situation and choose to activate or deactivate the motion sensor only when the illumination is needed. Using zero crossing triggered technology make sure the relay switch over when the AC load voltage at close to zero-phase, effectively extends the product's life and safety to the user.



Features

- ✓ 5.8GHz-ISM Band <0.2mW, CW-Radar technology with ambient light sensor
- ✓ Using Zero Voltage Crossing Triggering Tehnology for effective and safe operation
- ✓ Ceiling and Wall Surface-Mount versions are available
- ✓ SenseMini™ offers On/Off control with adjustable ambient light threshold
- ✓ SenseMini™ Dim offers On/Off with factory-preset ambient light threshold and 1-10V dimming control (4 levels: 10%, 20%, 30%, 100%)
- ✓ IP20 protection rating
- ✓ Operating conditions: 0°C to +60°C @Full load
- ✓ Safety and environmental standards recognition
- ✓ 5 years limited warranty

Applications

- ✓ Smart Home
- ✓ Smart Office
- ✓ Smart Building
- ✓ Central Library
- ✓ Corridor
- ✓ Indoor Parking
- ✓ Warehouse
- ✓ Dry Storage Room



¹For specific model and applicable for DC1~10V dimming featured luminaire



Product Code	Product Description	Input Voltage/Frequency	Standby Power	Load Capacity	Installation Height		Detection Coverage		Ambient Light Threshold
					Ceiling	Wall	Ceiling	Wall	
SenseMini™									
2910022	AC-SENSEMINI/AC230/IP20/CM	AC230±10% 50-60Hz	≤1W	10A@AC277V	2~3m	-	φ4~10m	-	10-∞ lx (Adjustable)
2910023	AC-SENSEMINI/AC230/IP20/WM	AC230±10% 50-60Hz	≤1W	10A@AC277V	2~5m	1~2.5m	φ2~8m	3~12m	10-∞ lx (Adjustable)
SenseMini™ Dim									
2910024	AC-SENSEMINI/AC230/IP20/CM/DIM	AC230±10% 50-60Hz	≤1W	10A@AC277V	2~3m	-	φ4~10m	-	10 lx (Fixed)
2910025	AC-SENSEMINI/AC230/IP20/WM/DIM	AC230±10% 50-60Hz	≤1W	10A@AC277V	2~5m	1~2.5m	φ2~8m	3~12m	10 lx (Fixed)

Product Pictures

SenseMini™



2910022

SenseMini™ Dim



2910023



2910024



2910025

Effect of dimming (For SenseMini™ Dim)

Full brightness



When movement is detected, the lamps are at the full brightness

Full brightness with time delay



The full brightness level is continued for a preset delay period.

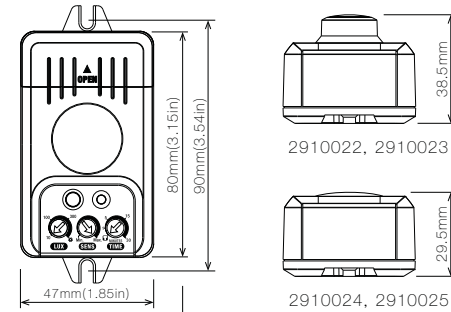
Lower brightness



When no any movement is detected after the delay period, the lamps are dimmed to lower brightness for maximum energy saving and security.

Note: For SenseMini™ Dim, the lamp must be equipped with dimmable electronics control gear (ECG) compatible with 1~10VDC dimming signal

Drawing



Maximum Load Connection Reference Table

Type of Load	Maximum Power
Incandescent	1,000W
Halogen	500W
L.V. Halogen	200W
Energy Saving Lamp	200W (CFL or PL Type)
Fluorescent	400VA /cosφ= 0.5 or 160W/20μF Max.
LED	200W

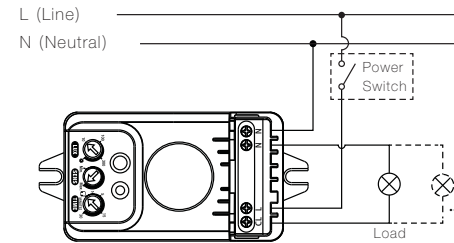
Dimming Level and Signal Output (For SenseMini™ Dim)

Dimming Level	10%	20%	30%	100%
Dimming Signal Output (DC)	1.5V	2V	3V	10V

Wiring Diagram

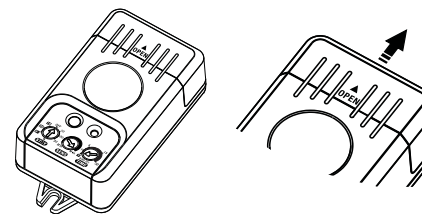
SenseMini™

SKU No. 2910022, 2910023

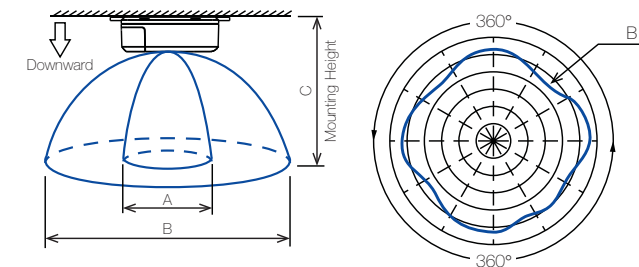


Wiring Instruction

Step 1 - Open the cover by slide the cover toward the arrow direction



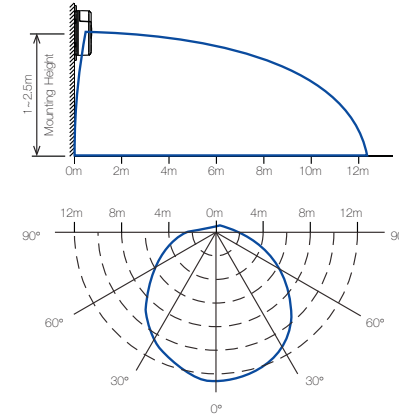
Typical Detection Coverage Characteristics



Ceiling Mount

SKU No.	A*	B*	C*
2910022, 2910023	φ 4m	φ 10m	2~3m
2910024, 2910025	φ 2m	φ 8m	2~5m

*For reference only

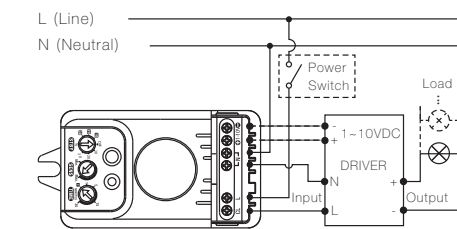


Wall Mount

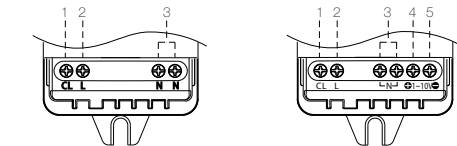
Applicable for SKU No. 2910023, 2910025
*For reference only

SenseMini™ Dim

SKU No. 2910024, 2910025



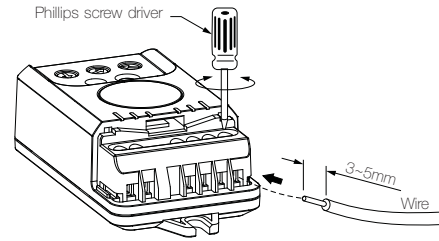
Step 2 - Insert the power wire into the corresponding wiring holes on the side of the sensor (CL, L, N and 1~10V ⊕ ⊖ for SenseMini™ Dim)



For SenseMini™
1) CL: Controlled Line Wire (Output)
2) L: Line Wire (Input)
3) N: Neutral Wire (Common)

For SenseMini™ Dim
1) CL: Controlled Line Wire (Output)
2) L: Line Wire (Input)
3) N: Neutral Wire (Common)
4) 1~10V Dimming Control ⊕
5) 1~10V Dimming Control ⊖

Step 3 - Tighten each wire by Phillips screwdriver



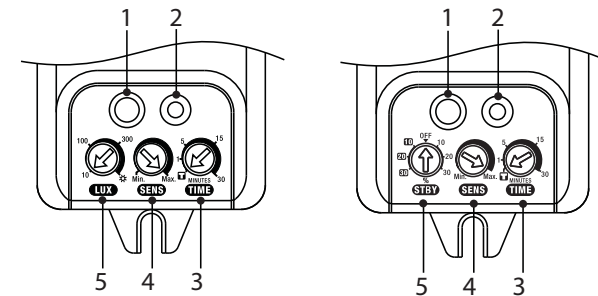
Setting Instruction

SenseMini™
SKU No. 2910022, 2910023

MINUTES TIME
15
5 1 30
Sets how long the loading will stay on after motion is detected (between 1-30minutes)
Turning the knob will change time duration. Every time the motion is detected, the timer will restart and turn the loading off at the end of the setting. The load will remain ON until the last movement is detected. (The mark **T** is used for installation test.

SENS
Min. Max.
Sets the sensitivity of the microwave motion sensor
Turning the knob counterclockwise will decrease the sensitivity and detecting range of the motion sensor, clockwise will increase the sensitivity and detecting range.

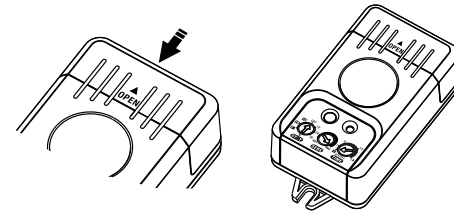
LUX
100 300 10
Sets the values of the ambient light level
When the values which be detected by an ambient light sensor is less than the setting, the motion sensor will become "ACTIVE", otherwise it enters "STANDBY MODE". Fully turn the knob clockwise to the mark **LUX** the motion sensor will always become "ACTIVE"



- For SenseMini™
- 1) Ambient Light Sensor
 - 2) LED Indicator (Red)
 - 3) **TIME** Time Setting Knob
 - 4) **SENS** Sensitivity Setting Knob
 - 5) **LUX** Ambient Light Setting Knob

- For SenseMini™ Dim
- 1) Ambient Light Sensor
 - 2) LED Indicator (Red)
 - 3) **TIME** Time Setting Knob
 - 4) **SENS** Sensitivity Setting Knob
 - 5) **STBY** Standby Dimming Level Setting Knob

Step 4 - Finally check the wiring and close the cover



SenseMini™ Dim
SKU No. 2910024, 2910025

MINUTES TIME
15
5 1 30
Sets how long the loading will stay on after motion is detected (between 1-30minutes)
Turning the knob will change time duration. Every time the motion is detected, the timer will restart and turn the loading off at the end of the setting. The load will remain ON until the last movement is detected. (The mark **T** is used for installation test.

SENS
Min. Max.
Sets the sensitivity of the microwave motion sensor
Turning the knob counterclockwise will decrease the sensitivity and detecting range of the motion sensor, clockwise will increase the sensitivity and detecting range.

STBY
10 OFF 10 20 30
Sets the standby mode and dimming level
Turning this knob will change the standby mode of the motion sensor, there are 3 modes:

OFF	ON-OFF mode	When the ambient light level is less than 10 lux, the motion sensor will become "ACTIVE" and load will be ON regardless of Dimmable or Non-dimmable type.
10 20 30	Two Level mode	Whether day or night, the motion sensor will become always "ACTIVE" (ambient light sensor is deactivated) - For Non-Dimmable load, the load will be ON - For Dimmable load, the load can be dimmed to 10%, 20% or 30% according to the setting value.
10 20 30	Three Level mode	When the ambient light level is less than 30 lux, the motion sensor will become "ACTIVE" - For Non-Dimmable load, the load will be ON - For Dimmable load, the load can be dimmed to 10%, 20% or 30% according to the setting value - When the ambient light level > Lux _{OFF} for at least 5minutes, the motion sensor will automatically enter "STANDBY" mode and the load will be OFF (Lux _{OFF} value is automatically calculated dynamically by sensor based on ambient light level)

Safety Precautions

1. Risk of fire hazard. Do not connect the loads higher than specified maximum wattages as this may cause a fire hazard or permanent product failure.
2. Risk of electrical shock. Disconnect power before install or service this product
3. Risk of electrical shock. This product must be powered at AC230V±10%/50-60Hz. Connecting to a different power source may result an electric shock hazard or permanent product failure.
4. A type C-Circuit breaker (6A/AC250V) according to EN60898-1 shall be installed in the fixed wiring for operational safety.
5. This product is for INDOOR USED ONLY and suitable for dry locations.
6. Study the detail in installation manual completely and carefully before install and use this product.
7. This product has no servicable parts inside. Do not attempt to repair this product yourself.
8. Contact your nearest distributor for assistance in case of failure

Note

The emission of this microwave sensor is less than 0.2mW, only 1/5000 of the GSM mobile phone or Microwave oven. A long-term use WILL NOT cause harmful to human, animal or plant.



LED Driver - DRV68

IP68, High efficiency, Constant Voltage Type LED driver suitable for dry, damp and wet locations. Fully equipped with safety features such as over-current, short-circuit, over-voltage, over-temperature protection functions and using UL94V-0 fire retardant materials ensure maximum level of user's safety. All products come with wide input voltage and various product certifications such as CE and RoHS which can be deployed safely in any applications

Features

- ✓ Suitable for dry, damp and wet locations
- ✓ IP68 protection rating against dust and water from application environment
- ✓ Built-in over-current, over-voltage, short-circuit, over-temperature protections
- ✓ UL94V-0 fire retardant materials
- ✓ Safety and environmental standards recognition
- ✓ 3 and 5 years limited warranty available

Applications

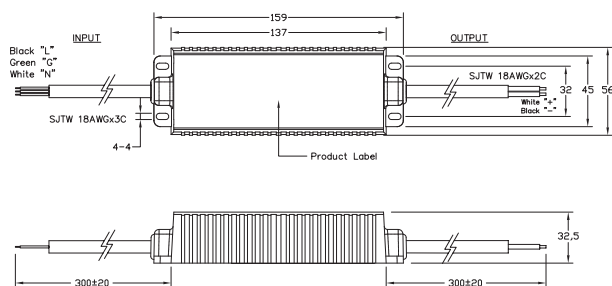
- ✓ Signage
- ✓ Architectural illumination
- ✓ Decorative lighting



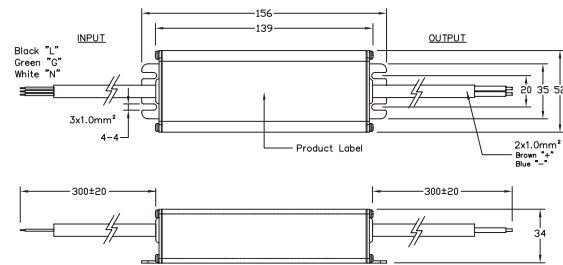
Product Main Description	Input Voltage & Frequency	Rated Output Power	Input Current	Power Factor	Efficiency	Rated Output Voltage	Output Voltage Accuracy	Output Ripple & Noise	Rated Output Current	MTBF (hrs)	Q'ty/ Carton (pcs)
DRV68 - 3 Years Warranty											
AC-DRV6803/60W	AC100-240V, 50-60Hz	60W	≤0.9A	≥0.9	≥85%	DC12V	±5%	≤2.5V	5A	≥30,000	20
					≥87%	DC24V	±5%	≤3V	2.5A	≥30,000	20
AC-DRV6803/100W	AC100-240V, 50-60Hz	100W	≤2A	-	≥85%	DC12V	±3%	≤200mV	8.33A	≥30,000	12
					≥89%	DC24V	±3%	≤200mV	4.16A	≥30,000	12

Drawing

DRV6803/60W



DRV6803/100W

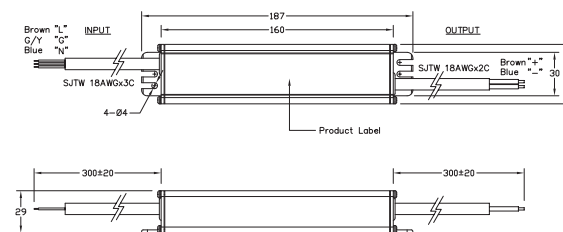


Note: Not to scale drawing. Dimensions are in mm

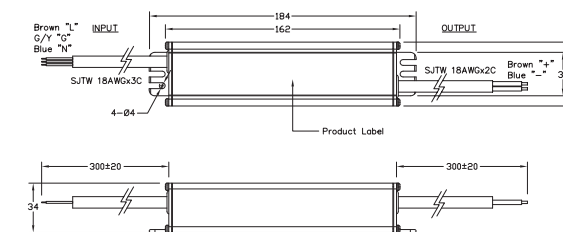
Product Main Description	Input Voltage & Frequency	Rated Output Power	Input Current	Power Factor	Efficiency	Rated Output Voltage	Output Voltage Accuracy	Output Ripple & Noise	Rated Output Current	MTBF (hrs)	Q'ty/ Carton (pcs)
DRV68 - 5 Years Warranty											
AC-DRV6805/30W	AC100-240V, 50-60Hz	30W	≤0.35A	≥0.95	≥84%	DC12V	±2.5%	≤150mV	2.5A	≥30,000	30
					≥85%	DC24V	±2%	≤240mV	1.25A	≥30,000	30
AC-DRV6805/60W	AC100-240V, 50-60Hz	60W	≤0.65A	≥0.95	≥86%	DC12V	±2.5%	≤150mV	5A	≥30,000	30
					≥90%	DC24V	±2%	≤240mV	2.5A	≥30,000	30
AC-DRV6805/100W	AC100-240V, 50-60Hz	100W	≤1.1A	≥0.95	≥90%	DC12V	±2.5%	≤150mV	8.33A	≥30,000	12
					≥92%	DC24V	±2%	≤240mV	4.16A	≥30,000	12
AC-DRV6805/150W	AC100-240V, 50-60Hz	150W	≤1.6A	≥0.95	≥92%	DC12V	±2.5%	≤150mV	12.5A	≥30,000	12
					≥93%	DC24V	±2%	≤240mV	6.25A	≥30,000	12

Drawing

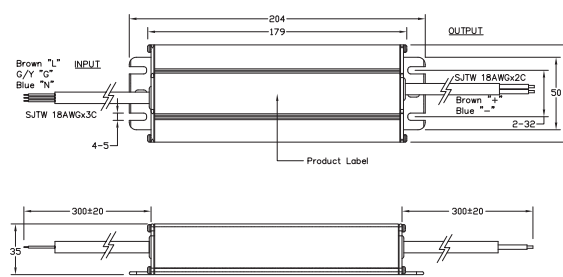
DRV6805/30W



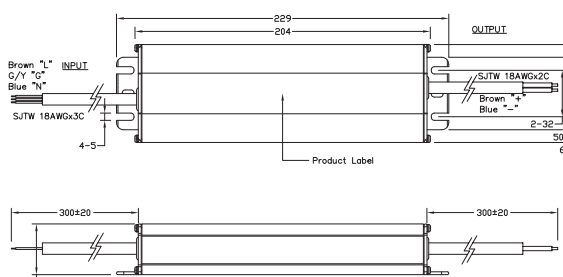
DRV6805/60W



DRV6805/100W



DRV6805/150W



Note: Not to scale drawing. Dimensions are in mm

Ordering Information

Model	IP Rating	Warranty Years	Rated Power Output	Rated Input Voltage	Rated Output Voltage	No. of Output	Rated Output Current
AC-DRV	68	03	60W	AC100-240	DC12	1x	5A
DRV LED Driver	68 = IP68	03 = 3 Years	30W = 30W	AC100-240 =	DC12 = DC12V	1x = 1 Output	1.25A
		05 = 5 Years	60W = 60W	AC100-240V,	DC24 = DC24V		2.5A
			100W = 100W	50-60Hz			3.9A
			150W = 150W				4.16A
							5A
							6.25A
							8.33A
							12.5A

Product Code	Product Description	Net Weight (kg)	Q'ty/ Carton (pcs)	Gross Weight (kg)
2910001	AC-DRV6803/60W/AC100-240/DC12/1x5A	0.52	20	11.9
2910002	AC-DRV6803/60W/AC100-240/DC24/1x2.5A	0.52	20	11.9
2910003	AC-DRV6803/100W/AC100-240/DC12/1x8.33A	0.72	12	16.5
2910004	AC-DRV6803/100W/AC100-240/DC24/1x4.16A	0.72	12	16.5
2910005	AC-DRV6805/30W/AC100-240/DC12/1x2.5A	0.50	30	17.2
2910006	AC-DRV6805/30W/AC100-240/DC24/1x1.25A	0.50	30	17.2
2910007	AC-DRV6805/60W/AC100-240/DC12/1x5A	0.52	30	18.0
2910008	AC-DRV6805/60W/AC100-240/DC24/1x2.5A	0.52	30	18.0
2910009	AC-DRV6805/100W/AC100-240/DC12/1x8.33A	0.88	12	12.4
2910010	AC-DRV6805/100W/AC100-240/DC24/1x4.16A	0.88	12	12.4
2910011	AC-DRV6805/150W/AC100-240/DC12/1x12.5A	1.00	12	14.0
2910012	AC-DRV6805/150W/AC100-240/DC24/1x6.25A	1.00	12	14.0

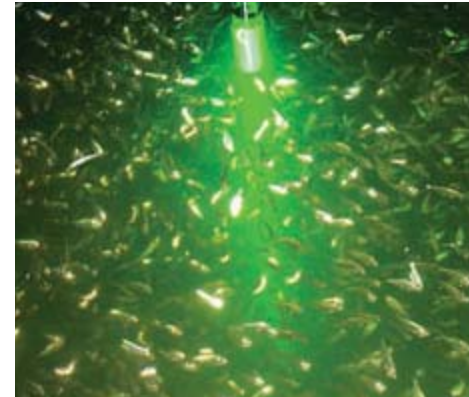
LED Fishing Lamp - BlueFin™

LeKise BlueFin™ LED Fishing lamps are underwater fish lure LED lamps innovatively designed in collaboration with renowned fishery research knowledge base to attract more catch. These underwater BlueFin™ LED provides the maximum lighting beam with a choice of colors with no surface reflection losses and with range of 100W to 1000W LED power to replace existing metal halide lamps. Their energy savings, robust design for harsh marine environment allow boats to stay out at sea longer and lowers the total operating cost every trip out. Using ultra bright reliable CREE LED with special optical elements to provide exceptional and uniform brightness underwater which is likely to introduce its spectrum to lure fishes/squids.



Features

- ✓ Ultra bright and reliable CREE LED delivers up to 100lm/W
- ✓ LED color* : White, green and blue
- ✓ Various choices of power : 100W, 200W, 300W, 420W, 600W and 1000W
- ✓ Up to 85% energy saving compared to metal halide
- ✓ Maximized lighting underwater with no surface reflection losses
- ✓ DC powered for safety
- ✓ Instant on, no flicker and dimmable
- ✓ Operational depth from 0 - 300m
- ✓ Long operating life of >30,000 hours in harsh environment
- ✓ IP68 rated, robust design for marine application
- ✓ Set includes BlueFin™ LED lamp, lamp holder and power unit
- ✓ Connect with marine grade cable (optional)
- ✓ 2 years limited warranty



*Based on the biology of fish visual receptors, the light that attracts are blue or green - the space colors of fish and members of their food chain. Green is a popular color for underwater shallow water. Do experiment as these colors do vary by catch types, locations and type of waters.

Applications

- ✓ Fishing boats
- ✓ Deep sea fishing vessel
- ✓ Fishing research

Technical Specifications BlueFin™

Power (W)	100	200	300	420	600	1000
Input Voltage to lamp (V)	49.5	49.5	49.5	49.5	49.5	66
Input Voltage to driver (V)	AC100/220/DC12/24	AC100/220/DC12/24	AC100/220/DC12/24	AC100/220/DC12/24	AC100/220/DC12/24	AC100/220/DC12/24
Luminous Flux (lm)	White	10000	20000	30000	42000	100000
	Green	6800	13000	18900	31500	45000
	Blue	1200	2300	3000	21000	30000
LED type	CREE	CREE	CREE	CREE	CREE	CREE
Dimming Range	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%
Cooling requirement	In water	In water	In water	In water	In water	In water
Depth in water (m)	0-20	0-20	0-30	0-300	0-300	0-300
Dimension (Ø)mm	Ø65x400	Ø65x400	Ø65x400	Ø140x700	Ø140x700	Ø140x700
Lamp Weight (kg)	1	1	1	8	8	10
Fixture Weight (kg)	5	5	5	5	5	5
Driver Weight (kg)	1	1	1	5	5	5

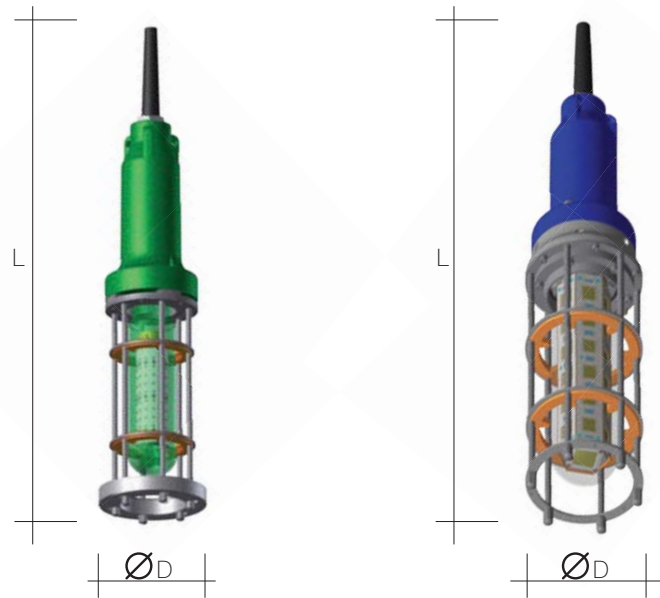
Ordering Information

Model	Rated Power	Driver Voltage	Color	Dimmable	Req'd External Cooling	CRI Value
UW-BF	100	AC100V	BL	D	NXC	X
	100=100W	AC100V	WH=White	D=Dimmable	XC=External Cooling	7=70-79
BlueFin™	200=200W	AC240V	GR=Green	ND=Non Dimmable	NXC=No External Cooling	X=N/A
	300=300W	DC12V	BL=Blue			
	420=420W	DC24V				
	600=600W					
	1000=1000W					

Product Code	Product Description	Product Code	Product Description
5010002	UW-BF100/AC100V/WH/D/NXC/X	5010038	UW-BF420/AC100V/WH/D/NXC/X
5010003	UW-BF100/AC100V/GR/D/NXC/X	5010039	UW-BF420/AC100V/GR/D/NXC/X
5010004	UW-BF100/AC100V/BL/D/NXC/X	5010040	UW-BF420/AC100V/BL/D/NXC/X
5010005	UW-BF100/AC240V/WH/D/NXC/X	5010041	UW-BF420/AC240V/WH/D/NXC/X
5010006	UW-BF100/AC240V/GR/D/NXC/X	5010042	UW-BF420/AC240V/GR/D/NXC/X
5010007	UW-BF100/AC240V/BL/D/NXC/X	5010043	UW-BF420/AC240V/BL/D/NXC/X
5010008	UW-BF100/DC12V/WH/D/NXC/X	5010044	UW-BF420/DC12V/WH/D/NXC/X
5010009	UW-BF100/DC12V/GR/D/NXC/X	5010045	UW-BF420/DC12V/GR/D/NXC/X
5010010	UW-BF100/DC12V/BL/D/NXC/X	5010046	UW-BF420/DC12V/BL/D/NXC/X
5010011	UW-BF100/DC24V/WH/D/NXC/X	5010047	UW-BF420/DC24V/WH/D/NXC/X
5010012	UW-BF100/DC24V/GR/D/NXC/X	5010048	UW-BF420/DC24V/GR/D/NXC/X
5010013	UW-BF100/DC24V/BL/D/NXC/X	5010049	UW-BF420/DC24V/BL/D/NXC/X
5010014	UW-BF200/AC100V/WH/D/NXC/X	5010050	UW-BF600/AC100V/WH/D/NXC/X
5010015	UW-BF200/AC100V/GR/D/NXC/X	5010051	UW-BF600/AC100V/GR/D/NXC/X
5010016	UW-BF200/AC100V/BL/D/NXC/X	5010052	UW-BF600/AC100V/BL/D/NXC/X
5010017	UW-BF200/AC240V/WH/D/NXC/X	5010053	UW-BF600/AC240V/WH/D/NXC/X
5010018	UW-BF200/AC240V/GR/D/NXC/X	5010054	UW-BF600/AC240V/GR/D/NXC/X
5010019	UW-BF200/AC240V/BL/D/NXC/X	5010055	UW-BF600/AC240V/BL/D/NXC/X
5010020	UW-BF200/DC12V/WH/D/NXC/X	5010056	UW-BF600/DC12V/WH/D/NXC/X
5010021	UW-BF200/DC12V/GR/D/NXC/X	5010057	UW-BF600/DC12V/GR/D/NXC/X
5010022	UW-BF200/DC12V/BL/D/NXC/X	5010058	UW-BF600/DC12V/BL/D/NXC/X
5010023	UW-BF200/DC24V/WH/D/NXC/X	5010059	UW-BF600/DC24V/WH/D/NXC/X
5010024	UW-BF200/DC24V/GR/D/NXC/X	5010060	UW-BF600/DC24V/GR/D/NXC/X
5010025	UW-BF200/DC24V/BL/D/NXC/X	5010061	UW-BF600/DC24V/BL/D/NXC/X
5010026	UW-BF300/AC100V/WH/D/NXC/X	5010062	UW-BF1000/AC100V/WH/D/NXC/X
5010027	UW-BF300/AC100V/GR/D/NXC/X	5010063	UW-BF1000/AC100V/GR/D/NXC/X
5010028	UW-BF300/AC100V/BL/D/NXC/X	5010064	UW-BF1000/AC100V/BL/D/NXC/X
5010029	UW-BF300/AC240V/WH/D/NXC/X	5010065	UW-BF1000/AC240V/WH/D/NXC/X
5010030	UW-BF300/AC240V/GR/D/NXC/X	5010066	UW-BF1000/AC240V/GR/D/NXC/X
5010031	UW-BF300/AC240V/BL/D/NXC/X	5010067	UW-BF1000/AC240V/BL/D/NXC/X
5010032	UW-BF300/DC12V/WH/D/NXC/X	5010068	UW-BF1000/DC12V/WH/D/NXC/X
5010033	UW-BF300/DC12V/GR/D/NXC/X	5010069	UW-BF1000/DC12V/GR/D/NXC/X
5010034	UW-BF300/DC12V/BL/D/NXC/X	5010070	UW-BF1000/DC12V/BL/D/NXC/X
5010035	UW-BF300/DC24V/WH/D/NXC/X	5010071	UW-BF1000/DC24V/WH/D/NXC/X
5010036	UW-BF300/DC24V/GR/D/NXC/X	5010072	UW-BF1000/DC24V/GR/D/NXC/X
5010037	UW-BF300/DC24V/BL/D/NXC/X	5010073	UW-BF1000/DC24V/BL/D/NXC/X

A: 100W - 300W

B: 420W - 1000W



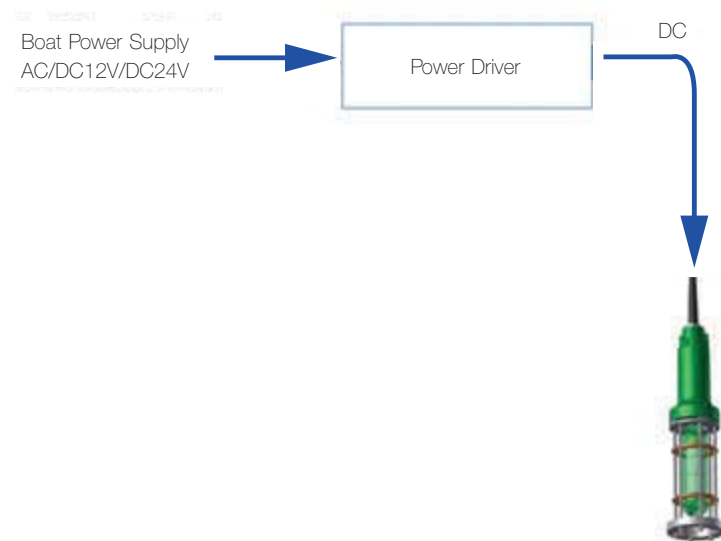
A: 100W - 300W (in mm)

Power	ØD	L
100W	126	586
200W	126	586
300W	126	586

B: 420W - 1000W (in mm)

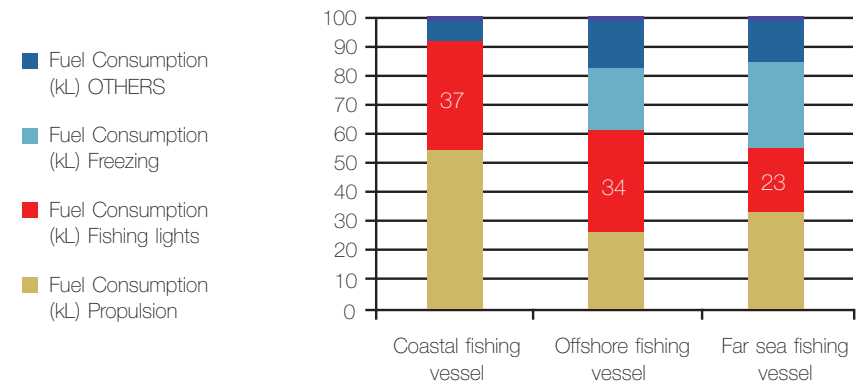
Power	ØD	L
420W	140	700
600W	140	700
1000W	140	750

Installation Guideline



Benefits of using LeKise BlueFin™ LED fishing lamp

Typical energy consumption on Japanese fishing vessel with metal halide lamps



Advantages of LED Vs Metal Halide Fishing Lamp

Characteristics	LED	Metal Halide
Energy savings	<ul style="list-style-type: none"> ✓ Optical efficiency 80 - 90% ✓ Savings up to 85% of energy 	<ul style="list-style-type: none"> ✓ Low luminous efficiency ✓ High power consumption ✓ Most energy transformed into heat
Ultra violet & Infrared radiation	✓ No UV and IR	✓ High UV and IR
Environment friendly	✓ No mercury or heavy metal	✓ Contains mercury and heavy metal
Spectral properties	✓ Concentrated, focused beam	✓ Wide and cubical emitting direction
Operating ease	✓ Solid state and robust	✓ Fragile, poor shock resistance

Typical example of fishing vessel power savings by changing from metal halide to LED BlueFin™ fishing lamp

	Metal Halide	LED
Watts	4000	600
# of units	100	100
# of hours per day	12	12
# of days per year	365	365
Power used (Mil Watts)	1.752	0.2628

85% savings per year!

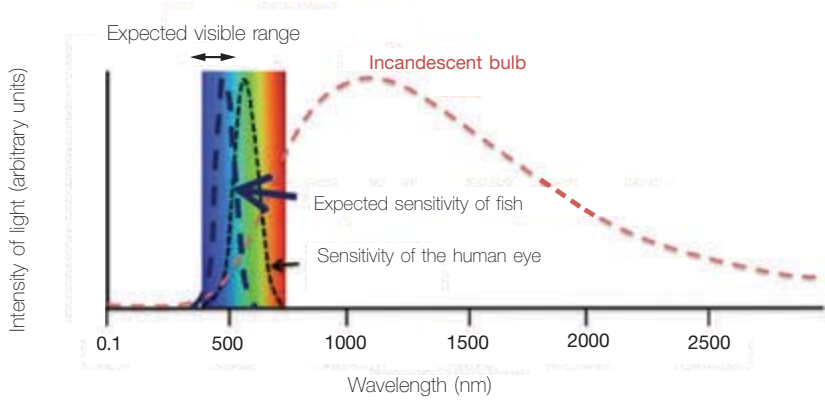
COMPARING COMMERCIAL LAMPS

	Incandescent		Fluorescent		HID		LED
	Standard	Halogen	Full-size or U-bent	Compact	Metal halide	High-Pressure Sodium	High power White LED
Wattage	3-1,500	3-1,500	4-215	5-58	32-2,000	35-1,000	100-1,000
Lamp Efficacy (lm/watt)	6-24	8-35	26-105	28-84	50-110	50-120	85-100
Average Rated Life (hrs)	750-2,000	2,000-4,000	7,500-24,000	10,000-20,000	6,000-20,000	16,000-24,000	35,000-50,000
CRI (%)	99	99	49-96	82-86	65-96	21-65	70-90
Start-to-Full Brightness	immediate	immediate	0-5 seconds	0-5 seconds	1-15 minutes	4-6 minutes	immediate
Re-Strike Time	immediate	immediate	immediate	immediate	2-20 minutes	1 minutes	immediate
Lumen Maintenance	very good	excellent	very good	good	fair/good	very good	excellent

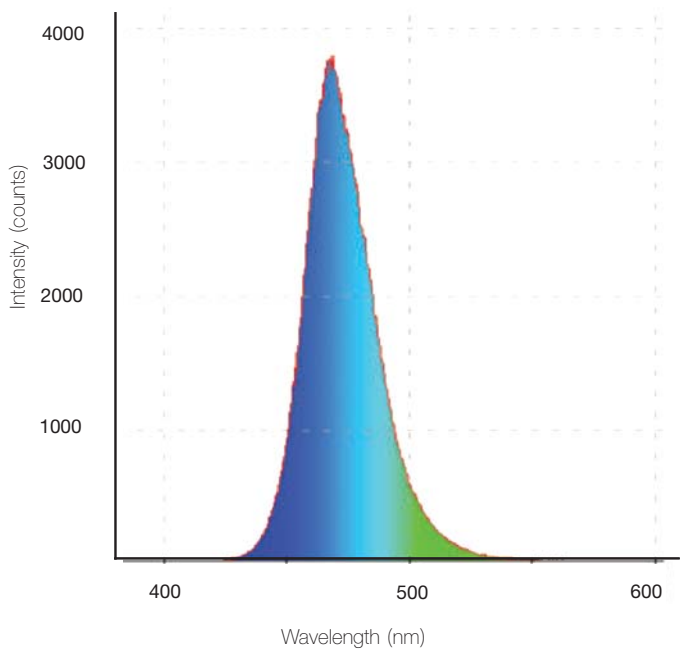
SEAFDEC Regional Training Workshop on optimizing energy and safety at sea for small fishing vessels, during 4-8 February 2013

LED Fishing Lamp - YellowFin™ 600

LeKise YellowFin™ LED Fishing lamps are innovatively designed to help attract more catch. Designed to replace up to 4000W metal halide lamps. Their energy saving, robust design for harsh marine environment allows boats to stay out at sea longer and lowers the total operating costs. Using ultra bright LED with special optic elements to provide exceptional and uniform brightness with directional beam, which is likely to introduce its spectrum to lure the fishes/squids too.



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4-8 February 2013



LED wavelength tuned within expected sensitivity of expected fish vision.
Fishes see better between the blue and green color spectrum due to the sensitivity of their color receptors in their eyes.

Features

- ✓ Ultra bright COB Bridgelux LED delivers up to 100-120lm/W
- ✓ LED color : Cyan* (Blue, green and white available on order)
- ✓ Up to 85% energy saving compared to metal halide.
- ✓ Directional beam – shines where the light is needed.
- ✓ Instant on, no flicker and no glare Excellent light uniformity with piped in water cooling.
- ✓ Long operating life of >30,000 hours in harsh environment.
- ✓ IP65 rated, robust design for marine application.
- ✓ Beam angle up to 120°
- ✓ 2 years limited warranty.

Applications

- ✓ Fishing boats
- ✓ Deep sea fishing vessel
- ✓ Fishing research



*Based on the biology of fish visual receptors, the light that attracts are blue or green - the space colors of fish and members of their food chain. Cyan being the mid - point color between blue and green is our standard color.

Technical Specifications YellowFin™ 600

Product Description	Input Voltage & Frequency	Rated Output power	Input Current	Power factor	lm/W	Startup time	CRI	Beam Angle	Operating temperature	Rated Avg Life(hrs)	Power driver
AW-YF060/UNI/CY/ND/XC/8	90-265V 50-60Hz	600W	3A	>0.9	100-120	<0.5sec	>80	120°	-20 to +40°c	>30000	Included

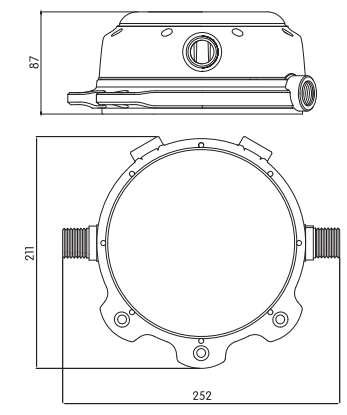
Ordering Information

Model	Product Group	Rated Power	Rated voltage	Color	Dimmable	Req'd External Cooling	CRI
AW	YF	060	UNI	CY	ND	XC	8
AW=Above Water	YellowFin	060=600W	UNI=AC90-265V	CY=CYAN	ND=Non Dimmable	XC = External Cooling	8=>80

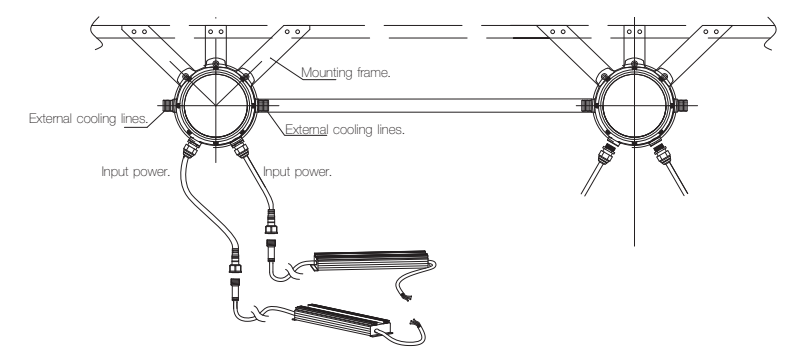
Product Code	Product Description
5010001	AW-YF060/UNI/CY/ND/XC/8

Dimensions

Note: All dimensions are in mm



Installation Guideline

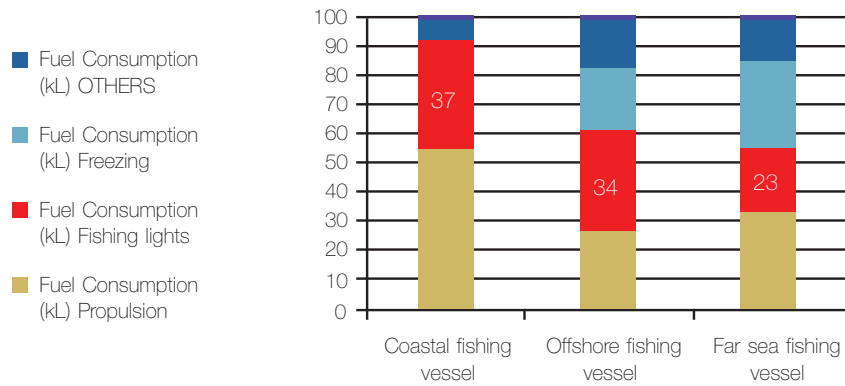


Safety Precautions

1. Risk of electric shock. Disconnect power before installing or servicing this product.
2. Do not attempt to connect when the connections are wet.
3. Complete all connections before lowering into the water.
4. DO NOT operate this unit above water. This will damage the unit.
5. Risk of injury. Wear safety glasses and gloves during installation and service.
6. Do not attempt to repair this product. Contact your nearest distributor for assistance in case of failure.

Benefits of using LeKise YellowFin™ LED fishing lamp

Typical energy consumption on Japanese fishing vessel with metal halide lamps



Advantages of LED Vs Metal Halide Fishing Lamp

Characteristics	LED	Metal Halide
Energy savings	<ul style="list-style-type: none"> Optical efficiency 80 - 90% Savings up to 85% of energy 	<ul style="list-style-type: none"> Low luminous efficiency High power consumption Most energy transformed into heat
Ultra violet & Infrared radiation	<ul style="list-style-type: none"> No UV and IR 	<ul style="list-style-type: none"> High UV and IR
Environment friendly	<ul style="list-style-type: none"> No mercury or heavy metal 	<ul style="list-style-type: none"> Contains mercury and heavy metal
Spectral properties	<ul style="list-style-type: none"> Concentrated, focused beam 	<ul style="list-style-type: none"> Wide and cubical emitting direction
Operating ease	<ul style="list-style-type: none"> Solid state and robust 	<ul style="list-style-type: none"> Fragile, poor shock resistance

Typical example of fishing vessel power savings by changing from metal halide to LED YellowFin™ fishing lamp

	Metal Halide	LED
Watts	4000	600
# of units	100	100
# of hours per day	12	12
# of days per year	365	365
Power used (Mil Watts)	1.752	0.2628

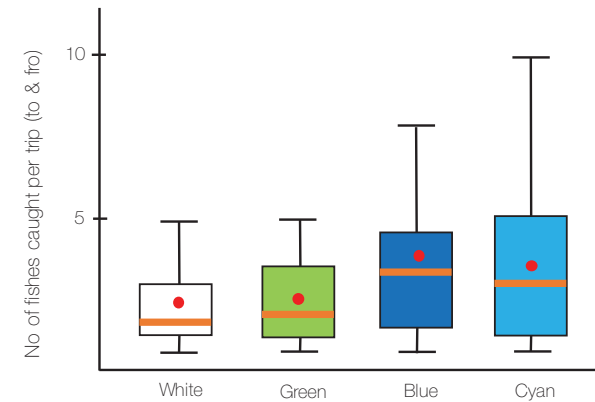
85% savings per year!

COMPARING COMMERCIAL LAMPS

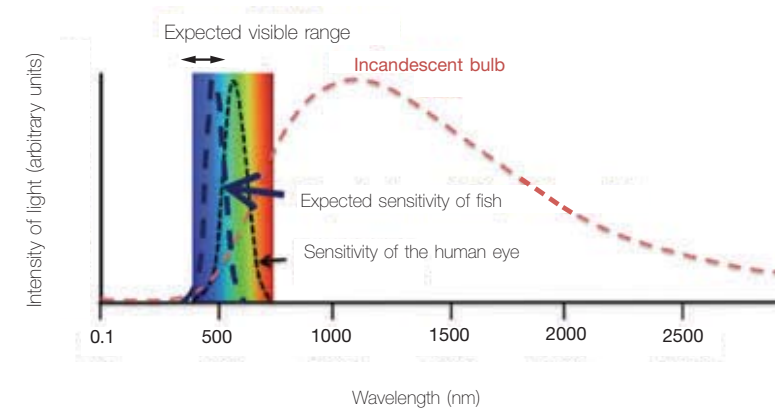
	Incandescent		Fluorescent		HID		LED
	Standard	Halogen	Full-size or U-bent	Compact	Metal halide	High-Pressure Sodium	High power White LED
Wattage	3-1,500	3-1,500	4-215	5-58	32-2,000	35-1,000	100-1,000
Lamp Efficacy (lm/watt)	6-24	8-35	26-105	28-84	50-110	50-120	85-120
Average Rated Life (hrs)	750-2,000	2,000-4,000	7,500-24,000	10,000-20,000	6,000-20,000	16,000-24,000	35,000-50,000
CRI (%)	99	99	49-96	82-86	65-96	21-65	70-90
Start-to-Full Brightness	immediate	immediate	0-5 seconds	0-5 seconds	1-15 minutes	4-6 minutes	immediate
Re-Strike Time	immediate	immediate	immediate	immediate	2-20 minutes	1 minutes	immediate
Lumen Maintenance	very good	excellent	very good	good	fair/good	very good	excellent

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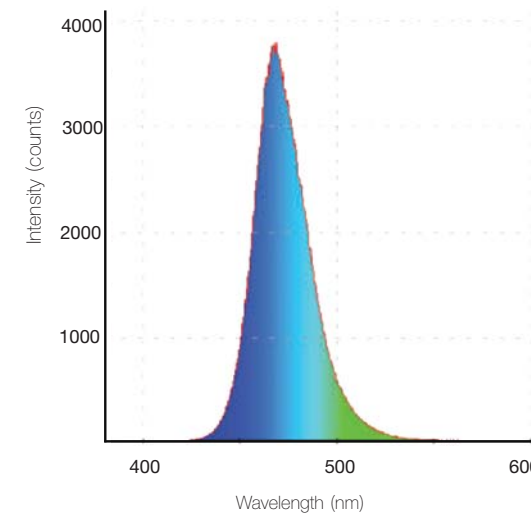
Comparison of fishing volume indicated by different LED color light



Note: Data from Japanese fishery studies - for reference only
Results varies based on many factors



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4-8 February 2013



LED wavelength tuned within expected sensitivity of expected fish vision.
Fishes see better between the blue and green color spectrum due to the sensitivity of their color receptors in their eyes.

Safety Precautions

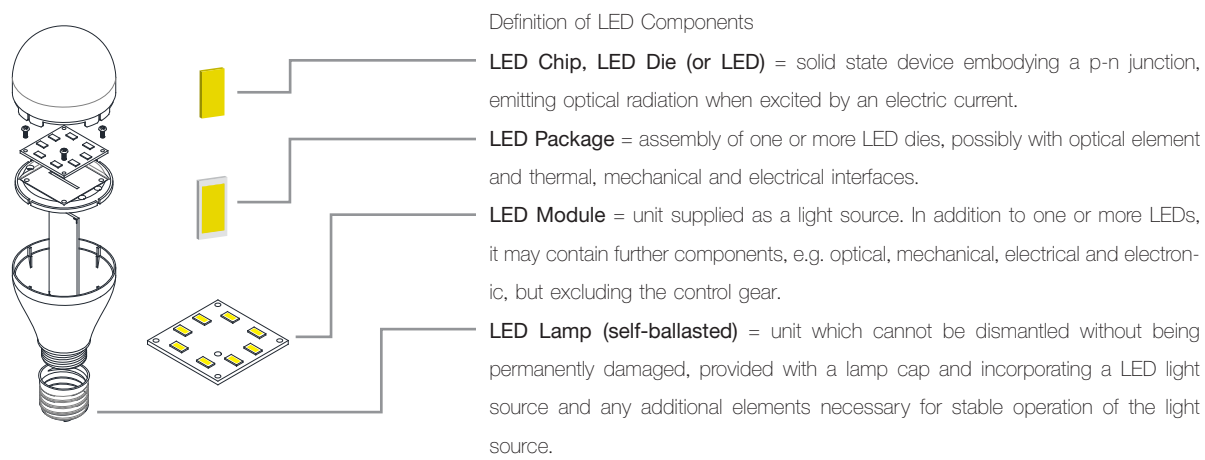
1. Risk of electric shock. Disconnect power before installing or servicing this product.
2. Do not attempt to connect when the connections are wet.
3. Ensure that the cooling water lines are connected BEFORE switching on the unit and there is constant water flow throughout the operation. Operating this unit without water cooling will damage this unit.
4. Risk of injury. Wear safety glasses and gloves during installation and service.
5. Do not attempt to repair this product. Contact your nearest distributor for assistance in case of failure.

Technical data

Light-emitting diodes (LEDs) are solid-state lighting components. Each LED consists of a semiconductor diode that emits light when a voltage is applied to it. They have no moving, fragile parts and can last for decades. LEDs can be many times more energy-efficient than light bulbs, depending on the application. LED lighting can save up to 85 percent of the electricity used by incandescent bulbs and up to 50 percent of electricity used by fluorescents.

The electronics industry has used LED technology for several decades as indicator lights for various electronic devices. In more recent years, LED technology has progressed to the point where it is viable for general lighting applications.

Most of the energy emitted from incandescent bulbs is converted to heat instead of light. That's why you'll burn yourself if you try to touch an incandescent bulb once it's turned on. Since LEDs consume significantly less energy, they don't emit as much heat. That's why you typically won't burn yourself if you try to touch an LED light once it's turned on. LED lights are also designed to last about 50 times longer, which means less ladder-climbing maintenance and less waste.



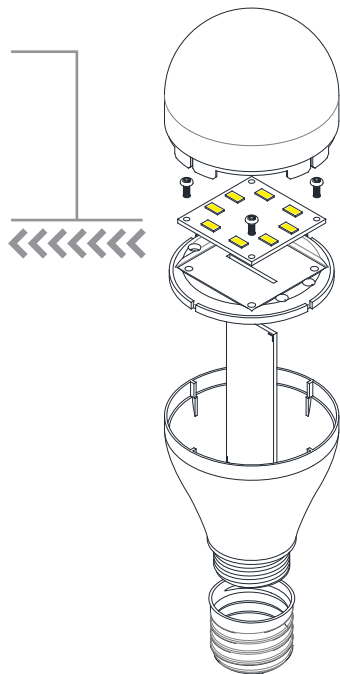
Characteristic of LED System

Radiometric

- SPD
- LER
- etc.

Colorimetric

- x, y coordinates
- CCT
- CRI
- CQS
- λ_d
- λ_p
- Δu_v
- etc.



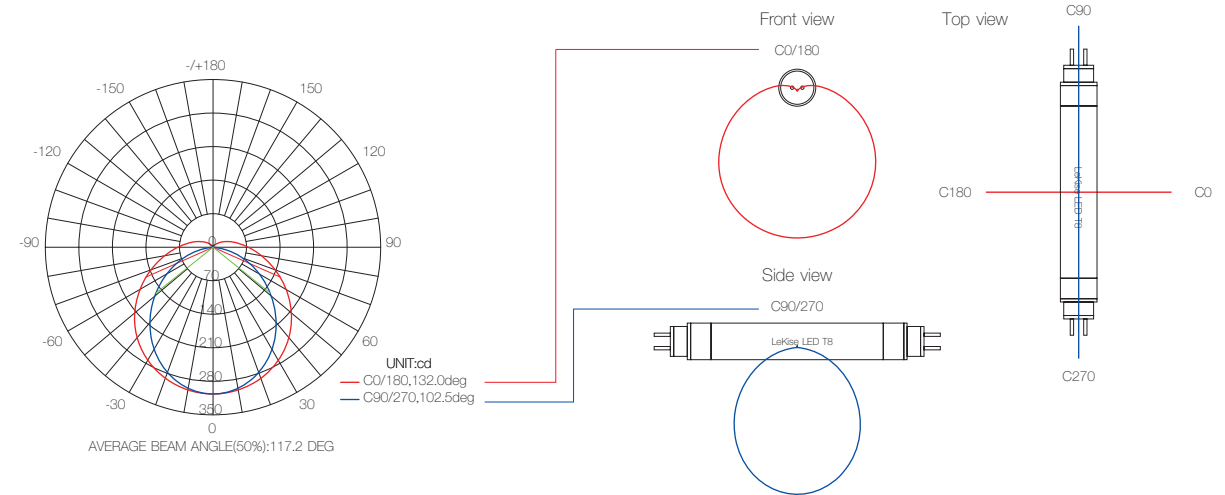
Photometric

- I_{av}
- Spatial distribution
- Rated luminous flux
- Partial lumen
- Luminance
- Efficacy and LOR
- Heat (75-85 %) => Thermal => Life
- R_{th} (degree C / W)
- Junction temperature
- Ambient temperature range
- Rated life + rated lumen maintenance
- Failure fraction corresponding to rated life
- t_p - point and t_p max of LED module

Electrical 100%

- I_F rated
- I_F max
- V_F
- I_{peak}
- Power
- etc.

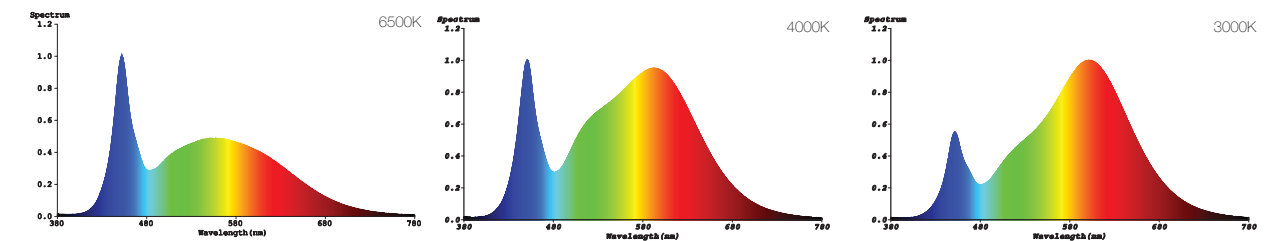
Luminous intensity diagram



Intensity, I, is the flux per unit solid angle. It is the amount of flux from a point source contained in a small angular volume. A source can be considered a point source for this application if the irradiance falls off as the inverse square of the distance from the source. Intensity, for a given source, can vary with direction

Spectral Power Distribution

A pictorial representation of the radiant power emitted by a light source at each wavelength or band of wavelengths in the visible region of the electromagnetic spectrum (360 to 770 nanometers).



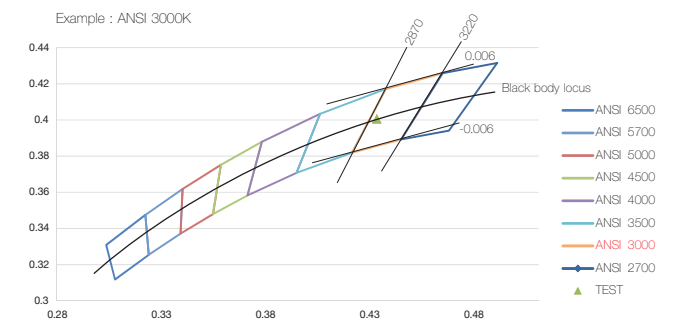
The resulting spectral power distribution (SPD) contains all the basic physical data about the light and serves as the starting point for quantitative analyses of color. The SPD can be measured by a spectrophotometer. From the SPD both the luminance and the chromaticity of a color may be derived to precisely describe the color in the CIE system. Other systems of color measurement can also be related to the SPD. These systems have been successful in predicting color perception from the SPD, but it is not possible to proceed in the opposite direction. That is, the SPD cannot be predicted from the characteristics of the color as perceived by the human eye.

Nominal CCT and Target CCT

Nominal CCT is used to specify and communicate white light chromaticity information of a product, and, in this document, is a CCT value at 100 K steps that is closest to the target CCT of the product. A target CCT is the CCT value that the product is designed to produce. Individual samples of the product may deviate from the target CCT due to production variation, which is normally controlled to be within a production tolerance. The same applies to target DUV. The target CCT and target DUV are also the center points of the tolerance range of these parameters in following table.

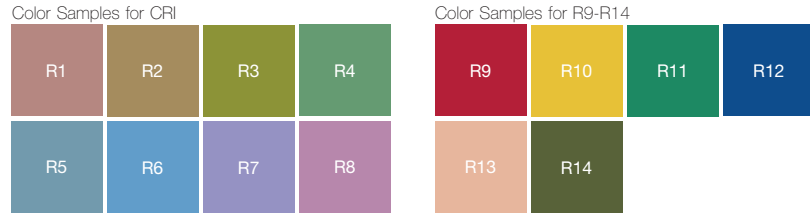
	Nominal CCT(K)	Target CCT&Tolerance(K)	Target DUV
Warm	2700	2580 to 2870	-0.006 to 0.006
	3000	2870 to 3220	-0.006 to 0.006
	3500	3220 to 3710	-0.006 to 0.006
Neutral	4000	3710 to 4260	-0.005 to 0.007
	4500	4260 to 4745	-0.005 to 0.007
	5000	4745 to 5310	-0.004 to 0.008
Cool	5700	5310 to 6020	-0.004 to 0.008
	6500	6020 to 7040	-0.003 to 0.009

Adapted from NEMA C78.377



Color rendering index

A simple definition of Color Rendering Index (CRI) would measure the ability of a light source to accurately render all frequencies of its color spectrum when compared to a perfect reference light of a similar type (color temperature). It is rated on a scale from 1-100. The lower the CRI rating, the less accurately colors will be reproduced. Light sources that are incandescent radiators have a CRI of 100 since all colors in their spectrum are rendered equally.

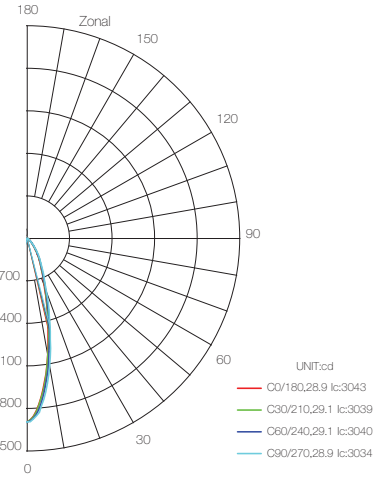
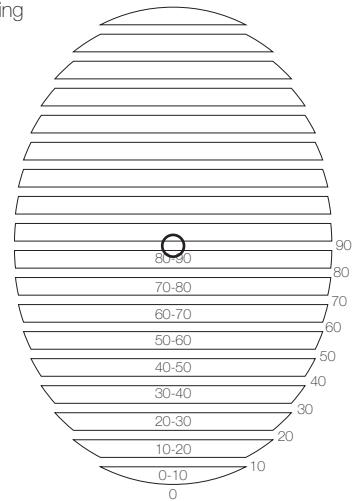
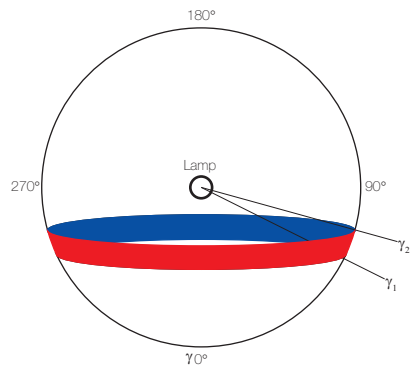


The special color rendering indices, referred to as R9 through R14, are each based on a single test color. They are not used for calculation of CRI but may be used for supplemental analysis when necessary. The “strong red” color sample, R9, is especially pertinent since the rendition of saturated red is particularly important for the appearance of skin tones, among other materials. An R9 score greater than 0 is generally considered acceptable since the color space used in the CIE Test-Color Method often causes color shifts in the red region to be exaggerated. The four boxes below are an approximate representation of the TCS09 color sample, as rendered by four different sources.



Lumen (Total luminous flux)

Goniometric measurement, intensity summing



Zonal Luminous Flux Equation

$$\Phi_{\gamma_1-\gamma_2} = \frac{I_{\gamma_1} + I_{\gamma_2}}{2} \times 2\pi(\cos\gamma_1 - \cos\gamma_2)$$

Zone	Zone Flux (lm)	Total Flux (lm)
0-10	2.8869	2.89
10-20	8.6189	11.51
20-30	14.1773	25.68
30-40	19.4272	45.11
40-50	24.2580	69.37
50-60	28.5821	97.95
60-70	32.3414	130.29
70-80	35.4891	165.78
80-90	38.0157	203.80
Total	39.9272	243.72

Zone	Candela Values								Zone	Zone	Total	%
	C0	C45	C90	C135	C180	C225	C270	C315				
10	1949	2018	2134	2298	2335	2250	2139	1980	0-10	243.7	243.7	19
20	822.3	870.2	930.0	1045	1059	989.1	922.5	829.1	10-20	402.6	646.3	50.4
30	389.6	412.7	439.4	464.7	467.8	441.5	407.4	377.7	20-30	285.8	932.1	72.7
40	169.5	180.9	193.8	216.1	215.7	202.0	182.4	166.2	30-40	184.4	1117	87.1
50	67.21	69.17	75.21	85.81	86.86	78.24	71.26	66.29	40-50	95.35	1212	94.5
60	25.39	27.78	28.95	31.12	32.24	30.76	28.27	24.68	50-60	42.70	1255	97.8
70	9.218	10.90	11.57	11.16	11.94	12.68	11.26	9.032	60-70	18.22	1273	99.2
80	3.383	4.458	4.497	3.921	4.707	5.249	4.592	3.291	70-80	7.561	1280	99.8
90	0	0	0	0	0	0	0	0	80-90	2.158	1283	100

Lumen Maintenance Qualification

The LM-80 test procedure prescribes lumen maintenance testing for the LED package(s)/module(s)/array(s) and/or the luminaire. The applicant may demonstrate compliance with either Option 1 (Component Performance) or Option 2 (Luminaire Performance).

OPTION 1: Component Performance

The Component Performance option allows the applicant to demonstrate compliance with the lumen maintenance requirement by demonstrating an LM-80 tested light source (package(s)/module(s)/array(s)) operates at or below specified temperatures when operated in situ. To be eligible for the component performance option, ALL three of the conditions below must be met. If ANY of the conditions are not met, the component performance option may not be used and the applicant must use the luminaire performance option for compliance.

1. The LED package(s)/module(s)/array(s) used in the fixture has/have been tested according to LM-80, and the package(s)/module(s)/array(s) demonstrated at least 91.8% lumen maintenance at 6,000 hours (residential indoor) or 94.1% lumen maintenance at 6,000 (residential outdoor and all nonresidential).
2. The package(s)/module(s)/array(s) manufacturer prescribes/indicates a temperature measurement point (TMPLD) on the package(s)/module(s)/array(s).
3. The package(s)/module(s)/array(s) TMPLD is accessible to allow temporary attachment of a thermocouple for measurement of in situ temperature. Access via a temporary hole in the housing, tightly resealed during testing with putty or other flexible sealant is allowable.

The luminaire PASSES the Lumen Maintenance requirements if:

1. The package(s)/module(s)/array(s) temperature measured in situ, at the TMPLD is less than or equal to the temperature(s) specified in the LM-80 test report for the corresponding drive current or higher, within the manufacturer’s specified operating current range.
2. The drive current measured in the fixture is less than or equal to the drive current specified in the LM80 test report at the corresponding temperature or higher.

OPTION 2: Luminaire Performance

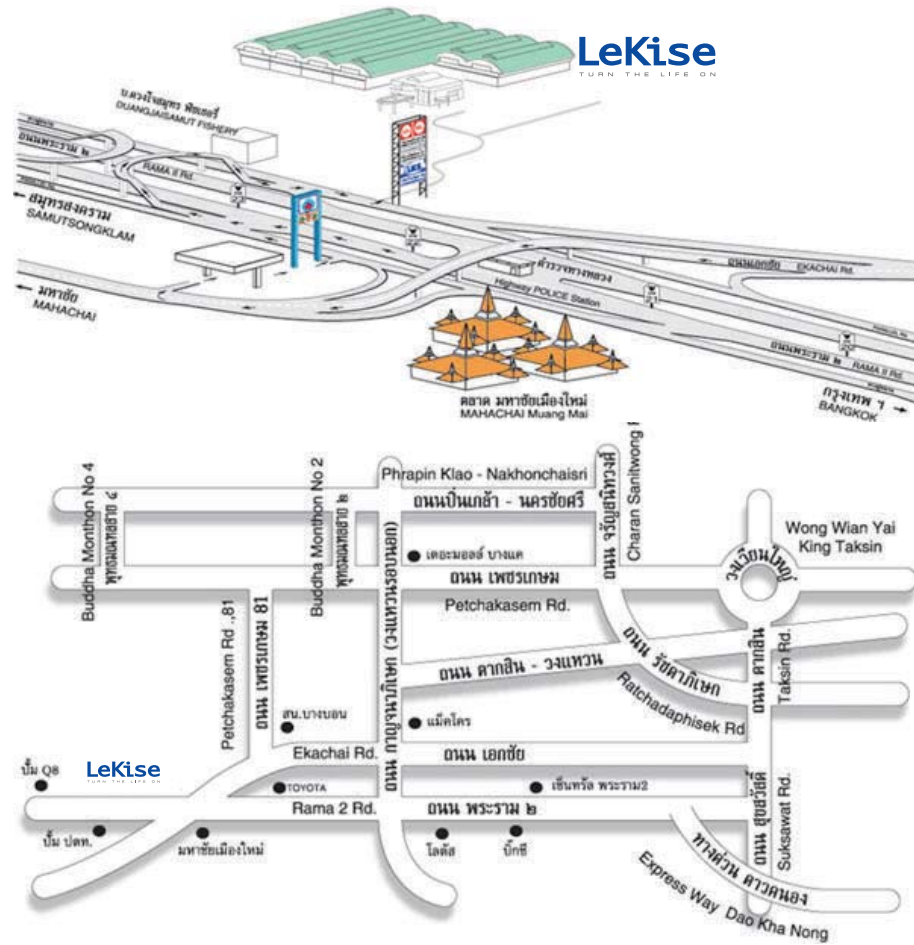
The applicant demonstrates compliance with the lumen maintenance requirement by submitting an LM-80 test report for the entire luminaire. The test report must demonstrate an L70 lumen maintenance of at least 91.8% at 6,000 hours (residential indoor) or 94.1% at 6,000 hours (residential outdoor and all non-residential) when operated in situ.

LeKise Map

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NOTE

