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ORNATE
Naturale

GigaTera LED Lighting

2018 LED LIGHTING CATALOG



GigaTera®
beyond light

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GigaTera[®]
beyond light

2018

LED LIGHTING CATALOG



WHO WE ARE

Worldwide leader in LED Lighting Solution

Gigatera is a provider of world class energy savings solutions with our cutting edge LED fixtures.

Core technologies such as our patented "Narrow Multi-Beam Forming" application are made possible by keeping in-house designers, engineers and manufacturers, allowing Gigatera to guarantee efficiency, reliability, and competitive pricing.

WHAT WE OWN

Vertical Integration from an R&D to mass production system

LED R&D and TEST Lab., Diecasting (Aluminium, Magnesium), Machining Center, Plating & Painting House, Ceramic LAB. & Fab, SMD Line.

WHAT WE OFFER

From basic components to complete systems to fulfill your needs

GigaTera's interior and exterior LED fixtures are a fusion of both elegant design and practical function.

Energy savings and a reduction in the carbon footprint are made without any sacrifice in light quality or performance.

Our integration of wireless communications with LED lighting technologies is just one way we push the limits of research and development to be at the forefront of the LED lighting industry.

FACILITIES

Manufacturing and R&D facilities in Korea and World wide.

GigaTera produces high-quality LED products with state-of-the-art production, equipment and innovative engineering.

2009

- Developed LED security lighting with antenna embedded
- Developed eco-friendly LED security lighting
- 8th Luminaire design grand-prix award
- Developed downlight integrated Antenna)

2008

- Export sales revenue, US \$100 Mil

2007

- Korea Technology Grand-prix award

2006

- Awarded industry package
(Filed of information and communication & small and medium enterprises development exploit)

2004

- Awarded the IRS2 Jang Young Sil

2001

- Acquired KS A/ISO 14001 certificate
- A President citation (The Trade Day)

2000

- Established Huatian Telecom Inc. China (Xi'an)
- Established KMW Inc, Japan
- Registered KOSDAQ (Code)

1998

- Established a new factory (Dongtan)

1997

- KT Mark approved from the minister of Science and Technology
- President citation (The national conference of venture business)
- Established the 3rd factory (Yong-in)

1996

- Acquired the ISO9001 Certificate
- Changed the company name to KMW Inc.
- The minister of science and technology prize for venture business
(*The 1st prize of venture business)

1995

- Established KMW U.S.A (LA)
- Laboratory approved
- Established headquarter office

1994

- Prize for the chief of industry development at the competitive exhibition of new products

1991

- Established (Korea Micro Wave)

2018

- LED Sports lighting installation - Pepsi center(NBA & NHL stadium)
- Successful hosting of Pyeongchang 2018 Winter Olympic Games through installation of GigaTera lighting
- LED lighting installation – DP World port terminal 1,2 in Dubai
- Highpower LED lighting installation - Boeing Factory

2017

- LED lighting installation - Miami Dolphins(NHL) Stadium in U.S.A
- LED lighting installation - Saga horse track in japan
- LED lighting installation – Hyundai Motors factory in India
- Established GigaTera Inc. separated from KMW

2016

- LED lighting installation - Pyeongchang 2018 winter olympic stadium (*Skijumping, Biathlon, CrossCountry, Speed skating, Curling)
- The world's first LED lighting installation - Horse racing stadium (Japan)

2015

- LED lighting installation - New York Yankee stadium
- Established GigaTera India
- Established GigaTera Turkey
- Established a new factory (Vietnam)

2014

- The world's first LED lighting installation - MLB baseball stadium (Seattle, Mariners)
- Acquired the 1st ICT IT Converged LED security lighting in quality certification (*SPES,SPES 2)
- Established GigaTera EU GmbH (Düsseldorf, Germany)
- Established GigaTera Middle East L.L.C (AbuDhabi, UAE)
- Established GigaTera G* (China)
- Established GigaTera Japan Inc. (Japan)
- Established a new factory (Cheonan Factory)

2013

- Selected as a world class 300 corporate
- Export sales revenue, US \$200 Mil

2012

- TALQ consortium regular member registered
- Registered ESCO (No.2012-0557-4)
- Certified for its High Efficacy Energy Equipment of LED area lighting (*Stella-50W, Stella-70W)

2011

- Laboratory approved (Anseong Factory)
- Developed IT converged LED Lighting
- Established coating factory branch
- Acquired TL9000 certification

2010

- Approved as advanced technology center by the ministry of Knowledge & Economy
- Acquired KS certificate in LED lighting
- New technology (NET) certification

Technology

1. Reflector

- High Luminous Efficacy - More efficient than using lens diffusers
- Reflection ratio of 95% ~ 97% - Reflector
- Minimum glare and loss of luminance



2. Smart Lighting Control Technology (GESS)

- Efficient and cost-effective control network system for build-up, maintenance and expansion as compare with the other control systems
- Smart upgrade be supported

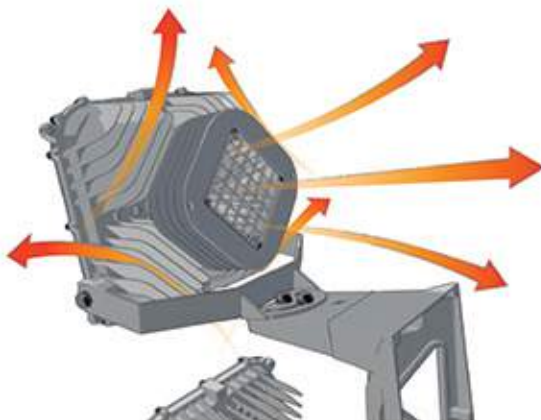
Wireless Control	Wired Control	Sensor Control
ZigBee, WiFi, LTE, W-CDMA	DALI, DMX-512, 1-10V	Occupancy Sensor Daylight Sensor

3. Heat Dissipation Technology

- Proven Data from official organization
- Proper Junction Temperature Control
- Ensure customers long Life products

There are two major sources in the LED light fixture. One is from the LED light source itself, and the other is in the AC to DC converter. It is very critical factor to use external heat dissipation structures.

GigaTera's luminaries design is based on thermal control techniques to enhance natural convection when considering optical and thermal design.



Characteristics

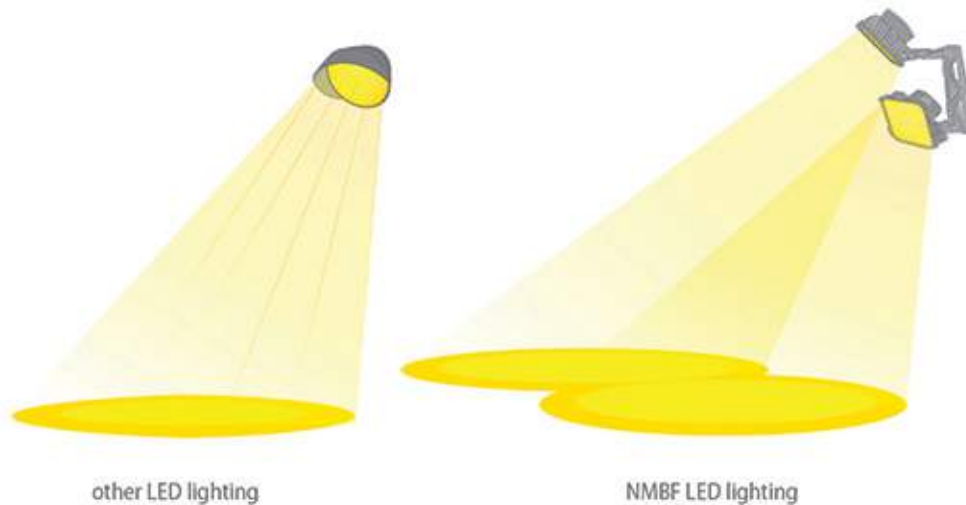
1. The junction temperature of the LED light source is kept below 149°F (65°C). (Theoretically, in order for the LED to achieve a life span of over 50,000 hours the junction temperature should be below 176°F (80°C))
2. Heat sources like the transformer and FET of the driver are designed with a heat dissipating mechanical structure to keep the temperature difference (ΔT) between the inside lead and outside temperature not more than 86°F (30°C).
3. As is commonly known, air flows from cold to hot. GigaTera maximizes this natural convection at the level of fixture design utilizing, for example, it uses an optimal mechanical structure for a vertically positioned LED module.

4. Narrow Multi-Beam Forming (NMBF) Technology

- GigaTera's renovated technology
- Maximizes energy savings
- Most optimized technology for preventing light pollution

Most manufacturers design the lighting fixtures implementing lens and reflector technologies for desired light distribution. These existing LED lighting methods according to the characteristics of the light will spread to a wider area and will also fall on the area that does not need the light and may lead to light pollution which is inefficient in terms of energy savings.

GigaTera's NMBF technology prevents light pollution and emits the light only to the target area, NMBF is advanced technology to control luminance with low power consumption to provide a similar level of luminous flux and also to maximize energy savings.



Characteristics

Modular type reflectors emit light to the area where light is required, without the glare.

5. In-House Driver Technology

- GigaTera has both the in house qualified driver engineers and the core technology.
- Performs for 2 months (1,440 hours) at +80°C acceleration test to ensure long life.
- GigaTera ensures a 50,000 hours life time of the driver with its in-house technology and reliability test. Accordingly, any failed product during acceleration is not commercialized.

Temperature acceleration test



Reliability Test Facilities



■ HIGH TEMP. Chamber

Test Capacity
TEMP. RANGE : RT ~ 80°C



■ Cryochamber

Test Capacity
TEMP. RANGE : -70°C ~ 80°C



■ Drop Tester

Test Capacity
Drop Height : 30cm ~ 100cm
Test Weight : MAX 50Kg
Test Size : MAX 900*600*900



■ Splash Water Chamber

Test Capacity
IPX5 : 12.5L/min ±5% (More than 3min)
IPX6 : 100L/min ±5% (More than 3min)



■ Salt Water Spray Chamber

Test Capacity
35°C & NaCl 5%



■ Dust Chamber

Test Capacity
IP6X : Protection against external dust of
1 mm or less



■ On/Off Tester

Test Capacity
ON/OFF Test : Max. 30 available
ON/OFF Time : Depends on user settings



■ TEMP&HUMI Chamber

Test Capacity
TEMP. RANGE : -50°C ~ 120 °C
HUMI. RANGE : 30% ~ 98% RH



■ Thermal Shock Chamber

Test Capacity
TEMP. RANGE : -50°C ~ 150°C



■ Dry Oven

Test Capacity
TEMP. RANGE : RT ~ 250 °C

Integrating Sphere System



- A system to measure the spectral properties, light efficiency
- Luminous flux radiate from a central position of the light source on the inner surface
- Real time measure of lamp stability and statistical analysis

standard metric

- CIE 84
- IESNA LM79

Test Results

- 1) Test Temperature (°C)
- 2) Burning Time (min)
- 3) Burning Attitude (Orientation)
- 4) Input Power (Voltage, Current, Power)
- 5) Total Lumen (lm)
- 6) Efficiency (lm/W)
- 7) Relative Spectral Energy Distribution Diagram
- 8) Relative Spectral Energy Data
- 9) Color Coordinates (x, y)
- 10) CIE 1931 Chromaticity Diagram
- 11) Correlated Color Temperature (K)
- 12) CRI (Color Rendering Index, Ra)
- 13) Special Color Rendering Indices (R1 ~ R15, Rt)
- 14) Color Rendering Group
- 15) Color Appearance Group
- 16) Dominant Wavelength (nm)
- 17) Peak Wavelength (nm)
- 18) Weighted Average Wavelength (nm)
- 19) FWHM (nm)
- 20) Spectral Energy (%)
- 21) Excitation Purity
- 22) Colorimetric Purity (%)
- 23) SDCM (Standard Deviation of Color Matching)
: McAdam Ellipse step calculation
- 24) ANSI C78.377-2011 Color System

Mirror Type Goniophotometer



- Rotating luminaire or light source around the optical axis and reflecting emitted light to mirror to measure the spectral properties and luminous intensity via sensor
- Set burning position to the same as actual installation of luminaire
- CIE and IESNA LM79 Stabilization Method applied for stabilization evaluation of light source
- Measurement Integration Time autoconfiguration
- Measure in conformity with NEMA Classification

standard metric

- CIE 43, 69, 70, 84, 121, 127
- IESNA LM31, LM35, LM41, LM42, LM46, LM79

Test Results

- 1) Beam angle / Field angle
- 2) LID diagram : Polar curve, H-V Plot
- 3) 10% LID diagram : Polar curve, H-V Plot
- 4) Cone Intensity Distribution diagram
- 5) Luminous Intensity Data table
- 6) IsoCandela diagrams
- 7) ConeLux Levels
- 8) IsoLux diagrams
- 9) 3D web format for IsoLux and IsoCandela diagrams
- 10) Luminance table
- 11) Cone Luminance Distribution diagram
- 12) Luminous flux summary table
- 13) Zonal flux diagram
- 14) Lumen Pie Chart
- 15) Luminance Limiting Curve (glare rating)
- 16) IESNA Zonal Cavity Coefficient table
- 17) CIBSE TMS Utilization factor table
- 18) Roadway Utilization factor diagram with table export
- 19) CIBSE LG3 rating (glare control for VDUs)
- 20) UGR Table
- 21) IESNA Roadway : Type I/II/III/IV and Short/Medium/Long
- 22) Photometric Solid with azimuth angle offset
- 23) LM79 Test Report software
- (1) Weighted Average (x, y) data
- (2) Weighted Average (u, v) data
- (3) Weighted Average CCT data
- (4) Maximum Delta u'v'
- (5) xy, u'v' distribution chart at CIE1931 chromaticity diagram

Excellent light distribution even at long distance

- High luminous efficacy 105 lm/W
- Tilting structure for optimized aiming (Upward : 90°, Downward : 90°)
- Wired/Wireless dimming controls
- Outstanding cooling technology and durability



Application

Harbour, Airport aprons, Airplane Hangars, Container terminals, Sporting facilities, Parking lots

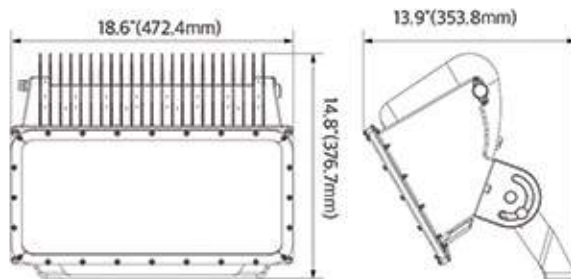
Specifications

* Tolerance : ± 5%

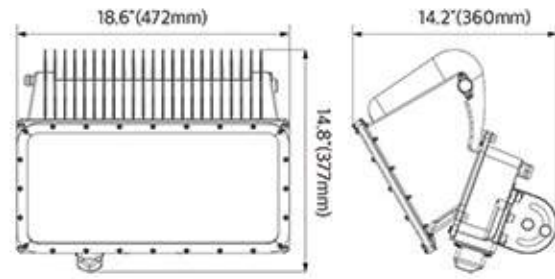
Driver Type	Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
Built-in	SMA400	400W	105 lm/W	42,000 lm	5000K (3000K, 4000K available)	70 Ra	12.5 kg / 27.6 lb	AC200~240V AC200~277V	-30°C~55°C -22°F~131°F
Remote	SMA400						10.3 kg / 22.7 lb	DC100V (RED)	
Body	Cast Aluminum		Mounting Option		Swivel Bracket				
Cover	Tempered Glass 4T (Clear)		Light Distribution		Asymmetric Wide				
Finish	Powder Coating		Control System		Remote Type : Wired (RS-485) / Built-in Type : Wireless				
* more details of Remote Driver(RED) on p.17									

Dimensions

• SMA400 (Remote Type)



• SMA400 (Built in Type)



LED Flood Lighting - Sports Flood Lighting

SFH SUFA-H**High quality sports stadium lighting**

- No glare from Narrow beam reflector
- 1,500 fps flicker free super slow-motion(SSM)
- High CRI & R9 Content better visibility
- Wired dimming controls
- Various module combination available
(1K2 : 600W x 2ea / 1K2 : 300W x 4ea/ 600W : 300W x 2ea)

Application

Sports Complex, Football Stadium, Soccer Stadium, Tennis Court, Indoor Arenas

**Specifications**

* Tolerance : ± 5%

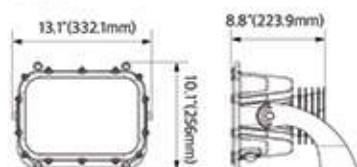
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFH1K2	1200W	95 lm/W	114,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra	26.0 kg / 57.3 lb	DC100V (RED)	-30°C~55°C -22°F~131°F
	(600Wx2)	105 lm/W	126,000 lm		80 Ra			
	(300Wx4)	110 lm/W	132,000 lm		70 Ra			
SFH600	600W	95 lm/W	57,000 lm		90 Ra	13.0 kg / 28.6 lb		
		105 lm/W	63,000 lm		80 Ra			
		110 lm/W	66,000 lm		70 Ra			

Body | Cast Aluminum
 Cover | Tempered Glass 4.0T (Clear), Anti UV & Dust, Shatter Proof
 Finish | Powder Coating

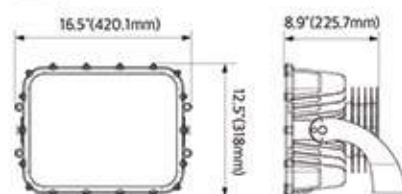
Light Distribution | 13° / 20° / 30°
 Control System | Wired (RS-485)
 * more details of Remote Driver(RED) on p.17

Dimensions

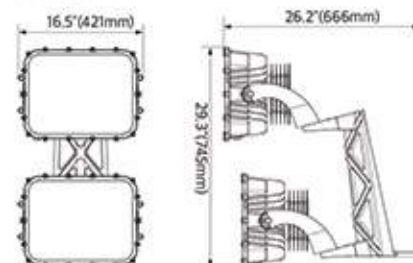
• SFH300



• SFH600



• SFH1K2



The above specifications were updated in July 2018 / The content may be subject to change without notice.

SFM SUFA-M

FC DLC 

IP 66

Tilt and rotate for easy aiming and optimized uniformity

- Excellent cooling structure design increases heat dissipation
- High CRI & R9 for better visibility
- Wired event lighting control system
- Color Tunable (4000K ~ 5700K)



Application

Sports stadiums, Indoor Venues

Specifications

* Tolerance : ± 5%

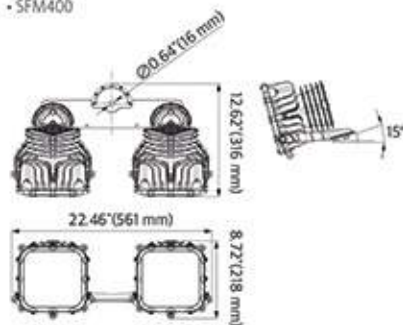
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFM1K2 200W x6	1200W	100 lm/W	120,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra	21.0 kg / 46.3 lb	DC100V (RED)	
		110 lm/W	132,000 lm		80 Ra			
		115 lm/W	138,000 lm		70 Ra			
SFM400	400W	100 lm/W	40,000 lm	4000K, 5000K 5700K	90 Ra	8.0 kg / 17.6 lb	DC100V (Power box)	-30°C~55°C -22°F~131°F
		110 lm/W	44,000 lm		80 Ra			
		115 lm/W	46,000 lm		70 Ra			
SFM400 Warm/Cool	400W	100 lm/W	40,000 lm	4000K, 5000K 5700K	80 Ra	8.0 kg / 17.6 lb	DC100V (W/C Power box)	
		95 lm/W	38,000 lm		90Ra			
		90 lm/W	36,000 lm					

Body | Cast Aluminum
Cover | Tempered Glass 3.2T (Clear), Anti UV & Dust, Shatter Proof
Finish | Powder Coating

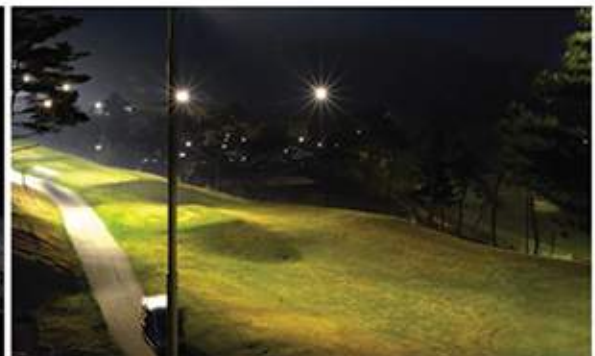
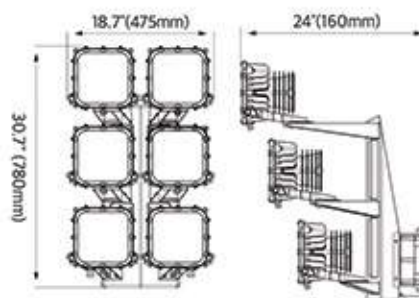
Light Distribution | 15° / 30° / 45°
Control System | Wired (RS-485)
* more details of Remote Driver(RED) on p.17

Dimensions

• SFM400



• SFM1K2



LED Flood Lighting - Sports Flood Lighting

SFA SUFA-A

Spectacular sports lighting comes with high efficacy and less glare optic technology

- No glare from Narrow beam reflector
- Flicker free 1,500 fps ultra slow-motion
- High CRI & R9 for better visibility
- Tilt and rotate for easy aiming
- Wired event lighting control system

Application

Sports stadiums, Indoor Venues, Ports

Specifications

* Tolerance : ± 5%

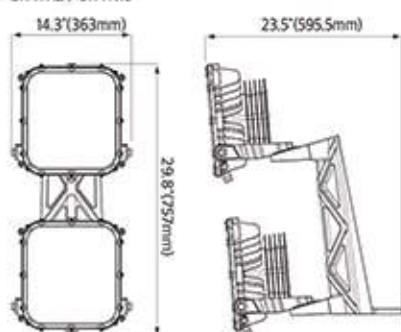
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFA1K2	1200W	100 lm/W	120,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra	18.0 kg / 39.7 lb	DC100V (RED)	-30°C~55°C -22°F~131°F
		110 lm/W	132,000 lm		80 Ra			
		115 lm/W	138,000 lm		70 Ra			
SFA1K0	1000W	100 lm/W	100,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra	13.0 kg / 28.6 lb	DC190V (BLU)	
		110 lm/W	110,000 lm		80 Ra			
		115 lm/W	115,000 lm		70 Ra			
SFA800	800W	100 lm/W	80,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra	13.0 kg / 28.6 lb	DC190V (BLU)	
		110 lm/W	88,000 lm		80 Ra			
		115 lm/W	92,000 lm		70 Ra			

Body | Cast Aluminum
 Cover | Tempered Glass 3.2T (Clear), Tempered Glass 4.0T (Clear, only 800W)
 Anti UV & Dust, Shatter Proof
 Finish | Powder Coating

Light Distribution
 Control System | 15° / 30° / 45°
 Wired(RS-485), Wireless(only 800W)
 * more details of Remote Driver(RED, BLU) on p.17-18

Dimensions

• SFA1K2 / SFA1K0



The above specifications were updated in July 2018 / The content may be subject to change without notice.

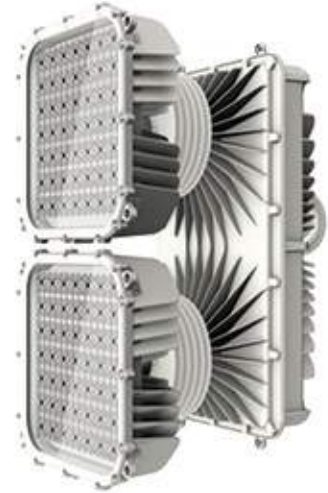
SFX SUFA-X



Spectacular sports lighting comes with high efficacy and less glare optic technology

- No glare from Narrow beam reflector
- Flicker free 1,500 fps ultra slow-motion
- High CRI & R9 for better visibility
- Wired event lighting control system

IP 66



Application

Sports stadiums, Indoor Venues, Ports

Specifications

* Tolerance : ± 5%

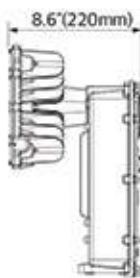
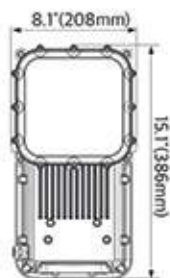
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFX1K0	1000W	110 lm/W 115 lm/W	110,000 lm 115,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra 70 Ra	32.0 kg / 70.6 lb	AC200~277V AC347~480V	-30°C~-55°C -22°F~-131°F
SFX600	600W	110 lm/W 115 lm/W	66,000 lm 69,000 lm		80 Ra 70 Ra	16.6 kg / 36.6 lb	AC200~277V AC220~240V AC347~480V	
SFX500	500W	110 lm/W 115 lm/W	55,000 lm 57,500 lm		80 Ra 70 Ra			
SFX400	400W	110 lm/W 115 lm/W	44,000 lm 46,000 lm		80 Ra 70 Ra	7.5 kg / 16.5 lb	AC100~277V AC347~480V	
SFX200	200W	110 lm/W 115 lm/W	22,000 lm 23,000 lm		80 Ra 70 Ra			

Body | Cast Aluminum
Cover | Tempered Glass 3.2T (Clear), Anti UV & Dust, Shatter Proof
Finish | Powder Coating

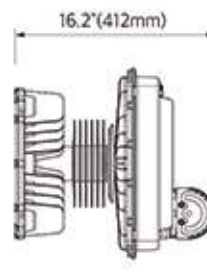
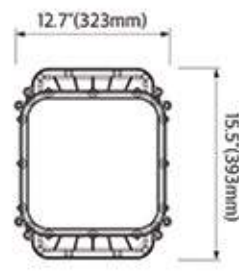
Mounting Option | Swivel Bracket
Light Distribution | 15° / 30° / 45°
Control System | Wireless / Wired (RS-485)

Dimensions

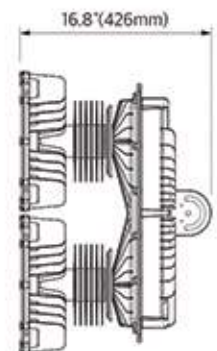
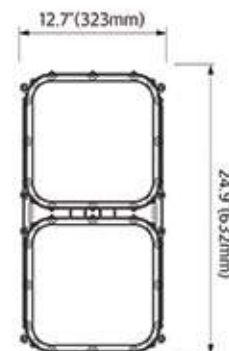
• SFX200



• SFX400/SFX500/SFX600



• SFX1K0



LED Flood Lighting - Area Flood Lighting

MAH MAHA

CB CE UL FC DLC

Unrivalled efficacy 150 lm/W

- Asymmetric beam distribution enabling cost efficient 1 on 1 replacement for HID flood light
- Outstanding cooling technology and durability
- Excellent light distribution and minimized glare
- Smart lighting control using wireless or Receptacle



MAH600

Application

Sporting Facilities, Airplane Hangars, Airport Aprons, Parking Lots, Harbour, Yard

Specifications

* Tolerance : ± 5%

Driver Type	Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
Built-in	MAH600	600W	150 lm/W	90,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	20.0 kg / 44.0 lb	AC220~240 V	-22°F~-131°F
								AC200~277 V	-30°C~-55°C
								AC347~480 V	
	MAH500	500W	150 lm/W	75,000 lm				AC220~240 V	-22°F~-122°F
								AC200~277 V	-30°C~-50°C
Remote	MAH400	400W	150 lm/W	60,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	15.0 kg / 33.1 lb	AC100~240 V	-22°F~-131°F
								AC120~277 V	-30°C~-55°C
								AC347~480 V	
	MAH250	250W	150 lm/W	37,500 lm				AC220~240 V	-22°F~-131°F
								AC200~277 V	-30°C~-55°C
								AC347~480 V	
Remote	MAH200	200W	150 lm/W	30,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	7.5 kg / 16.6 lb	AC100~240 V	-22°F~-131°F
								AC120~277 V	-30°C~-55°C
								AC347~480 V	
	MAH150	150W	145 lm/W	21,750 lm				AC100~240V	-30°C~-60°C
								AC100~277V	-22°F~-140°F
Remote	MAH500	500W	150 lm/W	75,000 lm			11.3 kg / 24.9 lb	DC100V (RED)	-22°F~-131°F
	MAH400	400W	150 lm/W	60,000 lm			11.3 kg / 24.9 lb		-30°C~-55°C

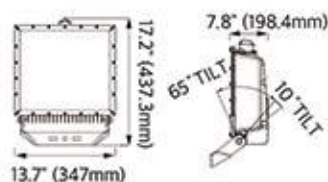
Body | Cast Aluminum
Cover | Tempered Glass 4T (Clear)
Finish | Powder Coating

Mounting Option | Swivel Bracket / Pole Mount Bracket
Light Distribution | Asymmetric Wide
Control System | Wireless / NEMA-7 Receptacle / Wired (RS-485, Remote Driver Type Only)

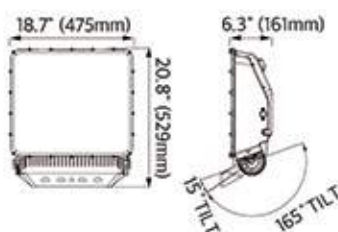
* more details of Remote Driver(RED) on p.17

Dimensions

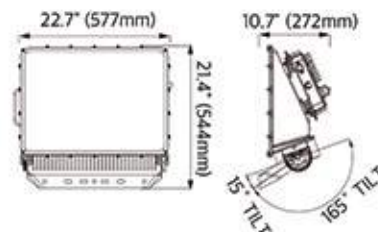
• MA150 / MAH200 / MAH250



• MAH400 / MAH500



• MAH600



The above specifications were updated in July 2018 / The content may be subject to change without notice.



IP 66

Ultralight and evenly distributed lighting for various spaces

- Multi-functional
- Easy replacement and installation
- Wireless dimming control

Application

Wall Packs, Billboards, Parking lots

Specifications

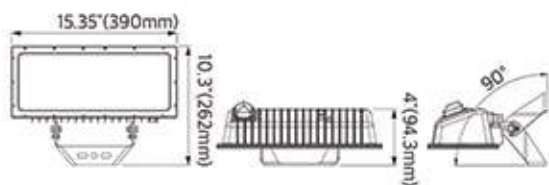
* Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
WP100	100W		13,500 lm	5000K		4.2 kg / 9.3 lb		
WP075	75W	135 lm/W	10,125 lm	(3500K, 4000K, 6500K available)	80 Ra	4.2 kg / 9.3 lb	AC100~277V AC100~240V	-30°C~60°C -22°F~140°F
WP050	50W		6,750 lm			3.2 kg / 7.1 lb		

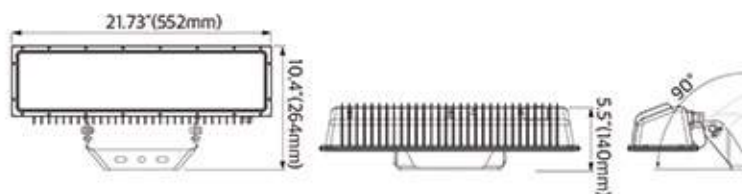
Body	Cast Aluminum	Mounting Option	Wall Mount, Mount Bracket, Pole Mount
Cover	Tempered Glass 3.2T (Clear)	Light Distribution	Asymmetric Wide
Finish	Powder Coating	Control System	Wireless / Sensor (Daylight)

Dimensions

• WP050



• WP075/100



The above specifications were updated in July 2018 / The content may be subject to change without notice.

RED Remote Driver



IP 20



RED (External Remote Driver)

- The output voltage of Remote Driver is DC48V when the distance of the luminaires is less 5.0m, DC100V when over 5.0m
- Distance between luminaire and remote driver is up to 50m

Application Products

SMA400, SFH1K2, SFH600, SFM400, SFA1K2, SFA1K0, MAH500, MAH400

Remote Driver IP box

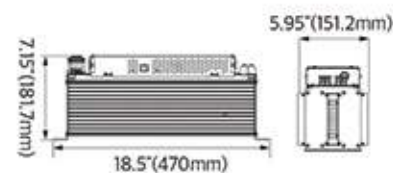


Specifications

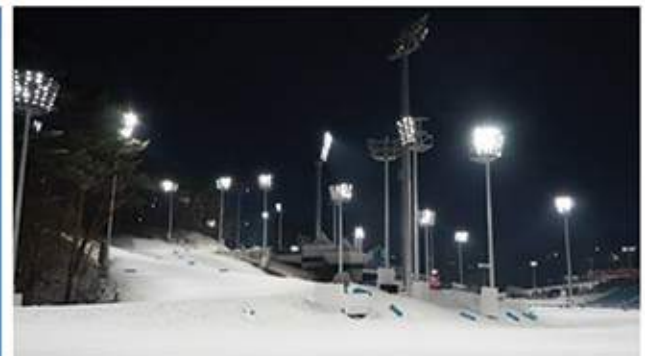
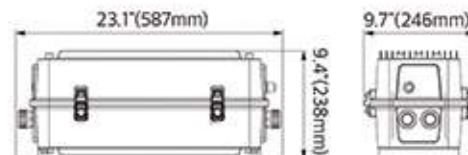
Model	Power	Input Voltage	Output Voltage	Input Current	Output Rated Current	Weight
RED1K2	1300W			Max. 7.6 (@200Vac) Max. 5.0 (@347Vac)	Max. 6.5A x 2EA	
RED1K0	1100W	AC200~277V AC200~240V AC220~240V	Typ. DC 100V	Max. 6.3 (@200Vac) Max. 4.4 (@347Vac)	Max. 5.5A x 2EA	13.0 kg / 28.7 lb
RED800	900W	AC347~480V		Max. 5.0 (@200Vac) Max. 3.8 (@347Vac)	Max. 4.5A x 2EA	
RED600	650W			Max. 3.8 (@200Vac) Max. 2.5 (@347Vac)	Max. 6.5A	10.0 kg / 22.0 lb

Dimensions

• RED (Remote Driver)



• RED IP BOX (Optional)



The above specifications were updated in July 2018 / The content may be subject to change without notice.

BLU Remote Driver



BLU (External Remote Driver)

- The output voltage of Remote Driver is DC48V when the distance of the luminaires is less 5.0m, DC190V when over 5.0m
- Distance between luminaire and remote driver is up to 70m

Application Product

SFA800

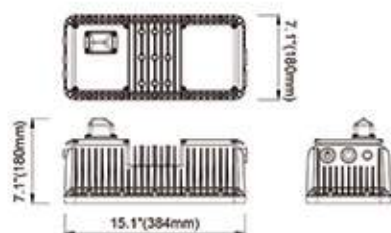


Specifications

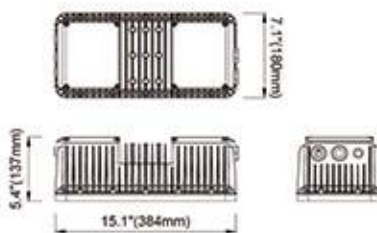
Model	Power	Input Voltage	Output Voltage	Input Current	Output Rated Current	Weight
BLU800	855W	AC200-277V	Typ. DC 190V	Max. 5.0 (@200Vac)	Max. 4.5A	10.0 kg / 22.1 lb

Dimensions

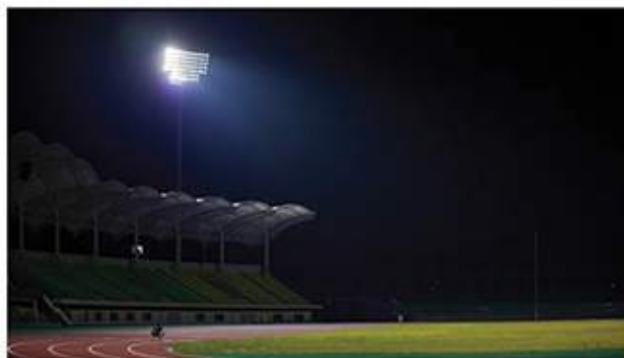
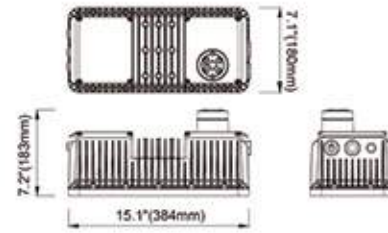
• BLU (Wireless)



• BLU (Wired)



• BLU (NEMA)



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LED Flood Lighting - *façade Lighting*

SFX RGB SUFA-X RGB



The game alone is no longer enough to keep a crowd excited SFX RGB are looking for new ways of adding value to the spectator experience

- Automatic RGB Color Conversion
- Optimized Wired Control Solutions through easy GUI-based program
- Built-in 20kV Surge Protection Device

IP 66



Application

Bridge, Construction Structures, Sports Arena

Specifications

* Tolerance : ± 5%

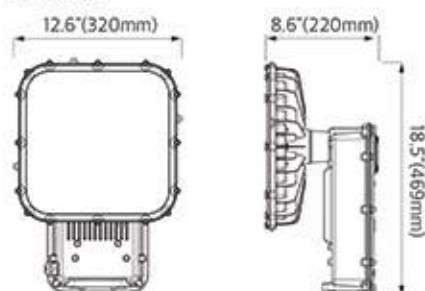
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFX400-RGB	400W	Red : 12.2 lm/W	4,900 lm	RGB Color	-	16.6 kg / 36.6 lb	AC200~277V	-30°C~-55°C -22°F~-131°F
		Green : 40 lm/W	16,000 lm				AC220~240V	
		Blue : 6.2 lm/W	2,500 lm				AC347~480V	
SFX120-RGB	120W	Red : 12.2 lm/W	1,450 lm	RGB Color	-	7.5 kg / 16.5 lb	AC100~277V	-30°C~-60°C -22°F~-140°F
		Green : 40 lm/W	4,800 lm				AC220~240V	
		Blue : 6.2 lm/W	750 lm				AC347~480V	

Body | Cast Aluminum
 Cover | Tempered Glass 3.2T (Clear), Anti UV & Dust, Shatter Proof
 Finish | Powder Coating

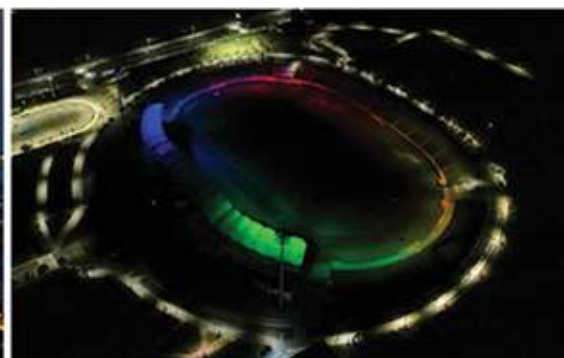
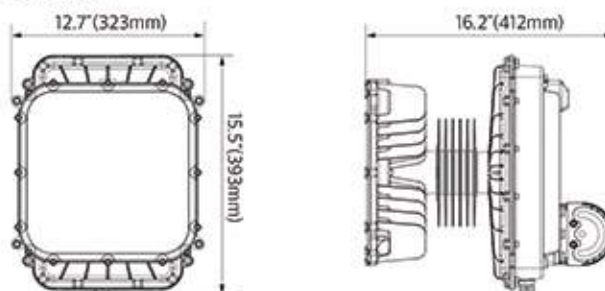
Installation Type | Swivel Bracket
 Light Distribution | 15° / 30° / 45°
 Control System | Wired (DMX-512 / RS-485)

Dimensions

• SFX120-RGB



• SFX400-RGB



The above specifications were updated in July 2018 / The content may be subject to change without notice.

MA RGB MAHA-RGB



Highlighting the symbol of the place through inspiring night views

- Automatic RGB Color Conversion
- Optimized Wired Control Solutions through easy GUI-based program

IP 66



Application

Bridge, Commercial Building, Village & Private House, Sports Arena

Specifications

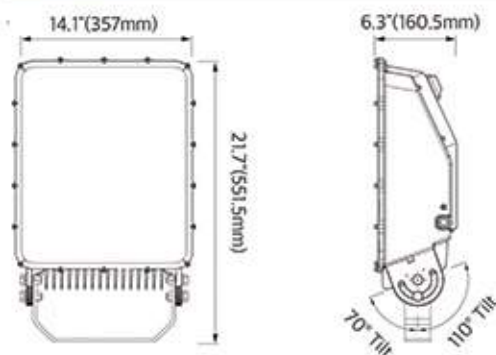
* Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
MA070-RGB	70W	-	-	Full Color	80 Ra	10 kg / 22.1 lb	AC100~277V	-30°C~60°C -22°F~140°F

Body | Cast Aluminum
Cover | Tempered Glass 3.2T (Clear)
Finish | Powder Coating

Mounting Option | Surface Mount / Swivel Bracket
Light Distribution | Asymmetric
Control System | Wired (RS-485)

Dimensions



LED Bay Lighting

SEH SEGA-High Power

Optimize high bay factory

- Efficacy of 140 lm/W
- Optimized light distribution
- Maximized heat dissipation via unique vertical cooling structure
- Wireless and wired light control

Application

Factories, Warehouses, Sports Arenas, Airports, Gyms, Superstores, Airplane hangars



Specifications

* Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SEH500	500W	140 lm/W (C) 130 lm/W (F)	70,000 lm 65,000 lm	5000K (3000K, 3500K, 4000K available)	80 Ra	26.0 kg / 57.3 lb	AC200~277V AC347~480V AC120~277V	-30°C~60°C -22°F~140°F
SEH450	450W	130 lm/W	58,500 lm			20.0 kg / 44.1 lb		
SEH400	400W	140 lm/W (C) 130 lm/W (F)	56,000 lm 52,000 lm			20.0 kg / 44.1 lb		

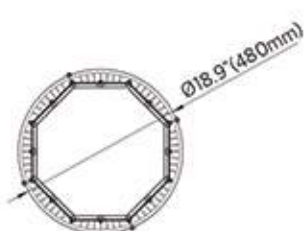
- C : Clear / F : Frosted

Body | Cast Aluminum
Cover | Tempered Glass 4T (Frosted)
Finish | Powder Coating

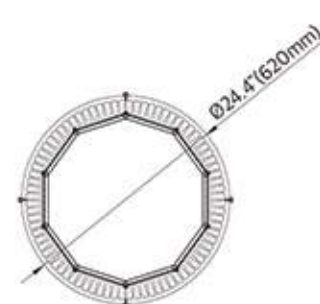
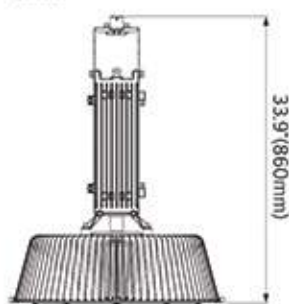
Mounting Option | Ceiling Bracket (Pipe)
Light Distribution | 70° (500W) / 80° (400W, 450W)
Control System | Wireless / Wired(1-10V)

Dimensions

• SEH400 / 450



• SEH500



The above specifications were updated in July 2018 / The content may be subject to change without notice.

High Power High Bay Lighting

- Efficacy of 140 lm/W
- Optimized light distribution
- Maximized heat dissipation via unique vertical cooling structure
- Wireless light control



Application

Factories, Warehouses, Sports Arenas, Airports, Gyms, Superstores, Airplane hangars

Specifications

* Tolerance : ± 5%

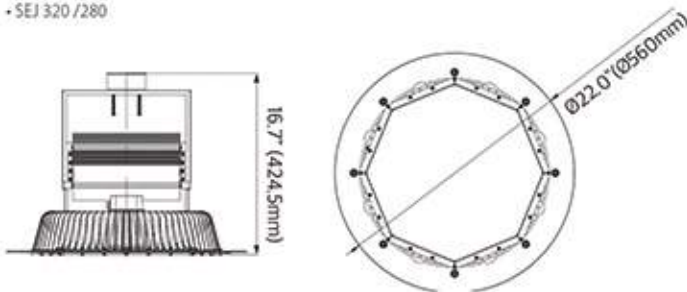
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SEJ320	320W	140 lm/W	44,800 lm	5000K	80 Ra	9.8 kg / 21.6 lb	AC100~240V	-30°C~60°C -22°F~140°F
SEJ280	280W		39,200 lm	(3000K, 4000K available)				

Body | Cast Aluminum
Cover | Tempered Glass 3.2T (Frosted)
Finish | Powder Coating

Mounting Option | Ceiling Bracket (Height Adjustable type)
Light Distribution | 80° (Symmetric)
Control System | Wireless

Dimensions

• SEJ 320 / 280



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LED Bay Lighting

SE SEGA

CB CE UL FC DLC PSE



Long life cycle with vertical thermal fin structure

- Unrivaled Efficacy 145 lm/W, 135 lm/W (*optional)
- Wired and wireless dimming control associated with Occupancy / Light control system (*optional)

Application

Factories, Warehouses, Superstores, Sports Arenas, Airports, Gyms

Specifications

* Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SE160	160W	135 lm/W (F) 145 lm/W (C)	21,600 lm 23,200 lm	5000K (3000K, 4000K, 5700K, 6500K available)	80 Ra	6.0 kg / 13.2 lb	AC100~277V AC347~480V	-30°C~60°C -22°F~140°F
SE130	130W	135 lm/W (F) 145 lm/W (C)	17,550 lm 18,550 lm					
SE100	100W	135 lm/W (F) 145 lm/W (C)	13,500 lm 14,500 lm			4.4 kg / 9.7 lb		
SE080	80W	135 lm/W (F) 145 lm/W (C)	10,800 lm 11,600 lm			4.4 kg / 9.7 lb	AC100~277V	

- C : Clear / F : Frosted

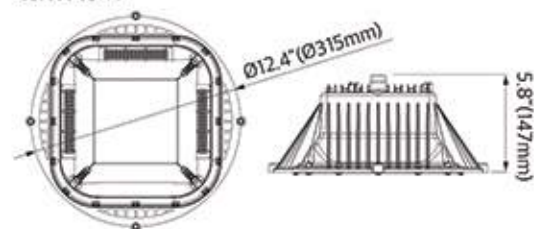
Body | Cast Aluminum
Cover | Tempered Glass 3.2T (Clear / Frosted)
Finish | Powder Coating

Mounting Option
Light Distribution
Control System

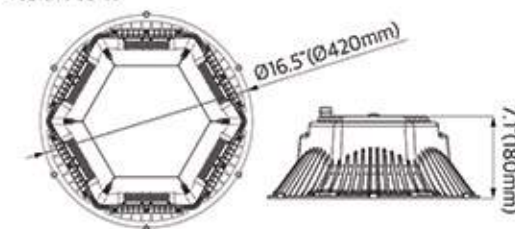
Ceiling Bracket (Pipe / Chain)
SE080 : 80° / 100° | SE100 : 80° / 110° | SE130 / SE160 : 90° / 130°
Wireless / Wired (1-10V) / Hybrid Sensor

Dimensions

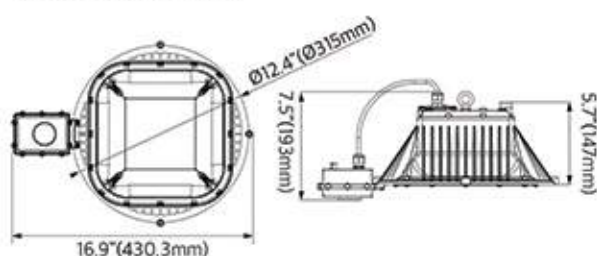
• SE080 / SE100



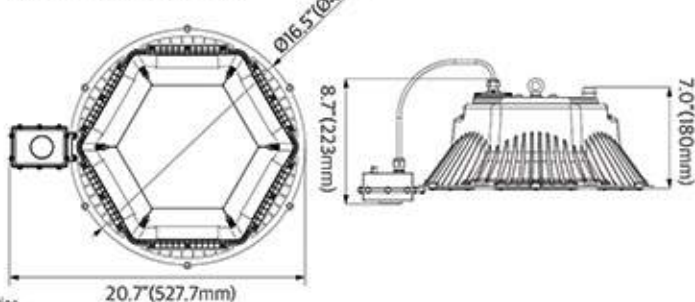
• SE130 / SE160



• SE080 / SE100 (Hybrid Sensor)



• SE130 / SE160 (Hybrid Sensor)



The above specifications were updated in July 2018 / The content may be subject to change without notice.

EFL High Bay

Optimal LED lighting for an eco-friendly industrial workplace

- Optimized lighting distribution for high bay applications
- Comes in narrow beam angle 60° or 40°
- Wireless and wired dimming controls
- Maximized heat dissipation via unique vertical cooling structure



Application

Factories, Warehouses, Superstores

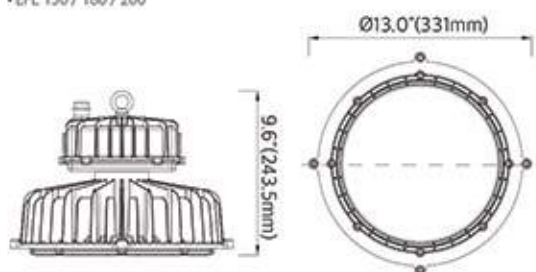
Specifications

* Tolerance : ± 5%

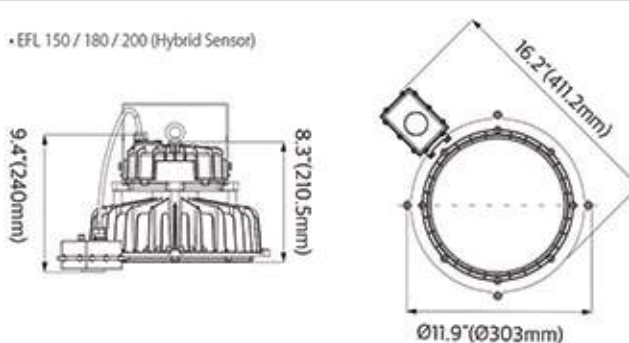
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
EFL200	200W	125 lm/W (40°) 135 lm/W (60°)	25,000 lm 27,000 lm	5000K (3000K, 4000K, 5700K available)	75Ra	8.2 kg / 18.1 lb	AC100~240V AC100~277V	-30°C~60°C -22°F~140°F
EFL180	180W	125 lm/W (40°) 135 lm/W (60°)	22,500 lm 24,300 lm					
EFL150	150W	125 lm/W (40°) 135 lm/W (60°)	18,750 lm 20,250 lm					
Body Cover Finish	Cast Aluminum Glass Powder Coating			Light Distribution Control System		40° / 60° Wireless, Wired(1-10V), Hybrid Sensor		

Dimensions

• EFL 150 / 180 / 200



• EFL 150 / 180 / 200 (Hybrid Sensor)



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LED Bay Lighting

EFL Low Bay

Amazing luminous efficacy 150 lm/W

- Excellent Cooling Structure
- Light weight
- Easy Replacement and Installation

Application

Factories, Superstores, Warehouses



* Tolerance : ± 5%

Specifications

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
EFL130	130W	140 lm/W (F) 150 lm/W (C)	18,200 lm 19,500 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	4.9 kg / 10.8 lb	AC100~240V AC100~277V	-30°C~60°C -22°F~140°F
EFL100	100W	140 lm/W (F) 150 lm/W (C)	14,000 lm 15,000 lm					
EFL070	70W	140 lm/W (F) 150 lm/W (C)	9,800 lm 10,500 lm			3.7 kg / 8.2 lb		

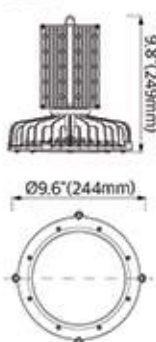
- C : Clear / F : Frosted

Body | Cast Aluminum
Cover | Glass or Polycarbonate (Diffuser)
Finish | Anodized

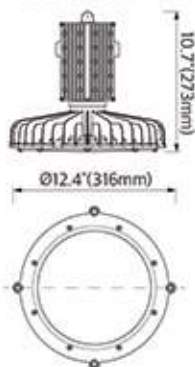
Mounting Option | Ceiling Bracket (Pipe and Chain)
Light Distribution | 120° (Standard) / 80° (Option)
Control System | Wired (1-10V)

Dimensions

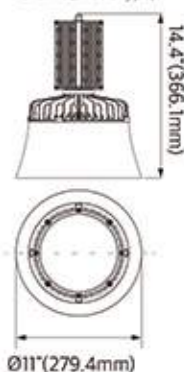
• EFL070



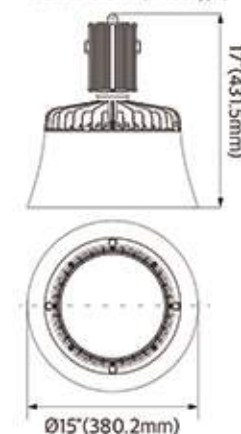
• EFL100 / EFL130



• EFL070(Shade Type)



• EFL100 / EFL130 (Shade Type)



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IBL Indirect Bay Lighting



Visual comfort and high efficiency lighting

- Comfortable and soft bay light
- Easy replacement and installation

Application

Factories, Warehouses, Superstores, Sports Arenas, Airports, Gyms



IP 20

IBL400

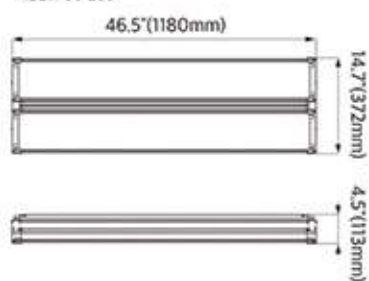
Specification

* Tolerance: ± 5%

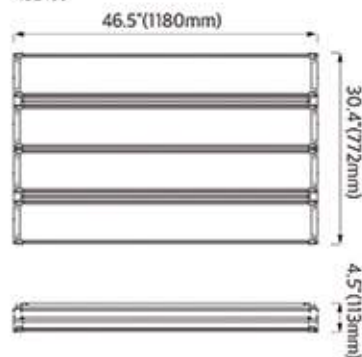
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
IBL400	400W		54,000 lm			10.0 kg / 22.0lb		-10°C~50°C 14°F~122°F
IBL200	200W	135 lm/W	27,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	6.9 kg / 15.2 lb	AC100~240V AC100~277V AC347~480V	-10°C~55°C 14°F~131°F
IBL170	170W		22,950 lm					
Body	Extruded Aluminum		Mounting Option		Wire Pendant			
Cover	Polycarbonate (Clear)		Light Distribution		80° / 130°			
Finish	Anodized		Control System		Wireless / Wired(1-10V, DALI) / Sensor (Occupancy, Daylight)			

Dimensions

• IBL170 / 200



• IBL400



The above specifications were updated in July 2018 / The content may be subject to change without notice.

LED Bay Lighting

SR SORA

CE UL FC DLC

**Easy replacement and installation**

- Glare-free and highly efficient light
- Linkable (*Optional)
- Optimal uniformity
- Motion and illumination sensors (*Optional)

Application

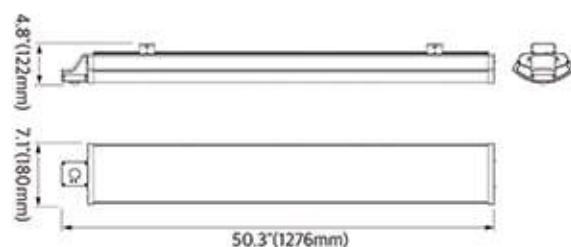
Classrooms, Parking lots, Exhibitions, Factories, Gyms

Specifications

* Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SR60	60W	105 lm/W	6,300 lm	5000K	80 Ra	2.25 kg / 5.0 lb	AC100~240V	-20°C~50°C
SR40	40W		4,200 lm				AC100~277V	-4°F~122°F

Body	Extruded Aluminum 1.2T	Mounting Option	Surface Mount (*Standard)
Cover	Polycarbonate 1.2T (Diffuser)	Light Distribution	110°
		Control System	Sensor (Daylight, Occupancy)

Dimensions

The above specifications were updated in July 2018 / The content may be subject to change without notice.

ITB I-TUBE



Visually Comfortable Indirect Reflection

- Easy replacement & installation
- Glare-free & High efficient
- Optimal uniformity

Application

Offices, Factories, Super stores, Big box chains, Gyms



Specifications

* Tolerance : ± 5%

SMPS Type	Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight (Built-in Driver)	Input Voltage	Operation Temperature	
Isolation	ITB19	19W (19.5W)	110 lm/W	2,145 lm	5000K (3000K, 4000K, 5700K, 6500K available)	80 Ra	0.44 kg / 0.97 lb	AC100~240V	-10°C~50°C 14°F~122°F	
	ITB16	16W	115 lm/W	1,840 lm						0.44 kg / 0.97 lb
	ITB10	10W	110 lm/W	1,100 lm						0.25 kg / 0.55 lb
Non-Isolation	ITE19	19W (19.5W)	110 lm/W	2,145 lm			0.44 kg / 0.97 lb			
	ITE16	16W	115 lm/W	1,840 lm			0.44 kg / 0.97 lb			

Body | Aluminum 0.3T
Cover | Polycarbonate 1T (Clear)

Mounting Option | Surface Mount
Light Distribution | 110°

Dimensions

• ITB16 / ITB19

Surface Mount



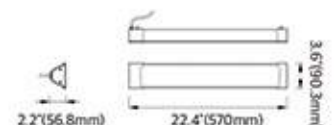
• ITE16 / ITE19

Surface Mount



• ITB10

Surface Mount



The above specifications were updated in July 2018 / The content may be subject to change without notice.

SPES-ST SPES-SETA



IP camera based convergence product that meets street light distribution (Type II-S) requirements

- High efficiency LED lighting that comes equipped with intelligent lighting controls
- Full-HD PTZ IP Camera (Optical 10x Mega pixel Zoom Lens)
- Built in micro SD card automatically saves video footage
- Function that prevent a video trembling due to vibration (DIS : Digital Image Stabilization)
- Onvif compliant

IP 66

Application

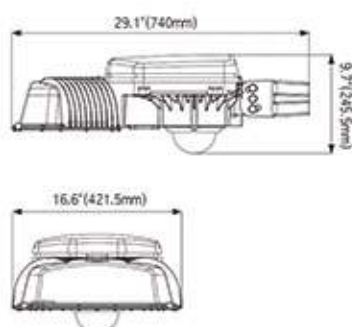
Walkways, Driveways, Industrial facilities, School zones, Cultural asset facilities, Hospitals, Shopping malls, Parking lots, Estates, Potential crime zones

Specifications

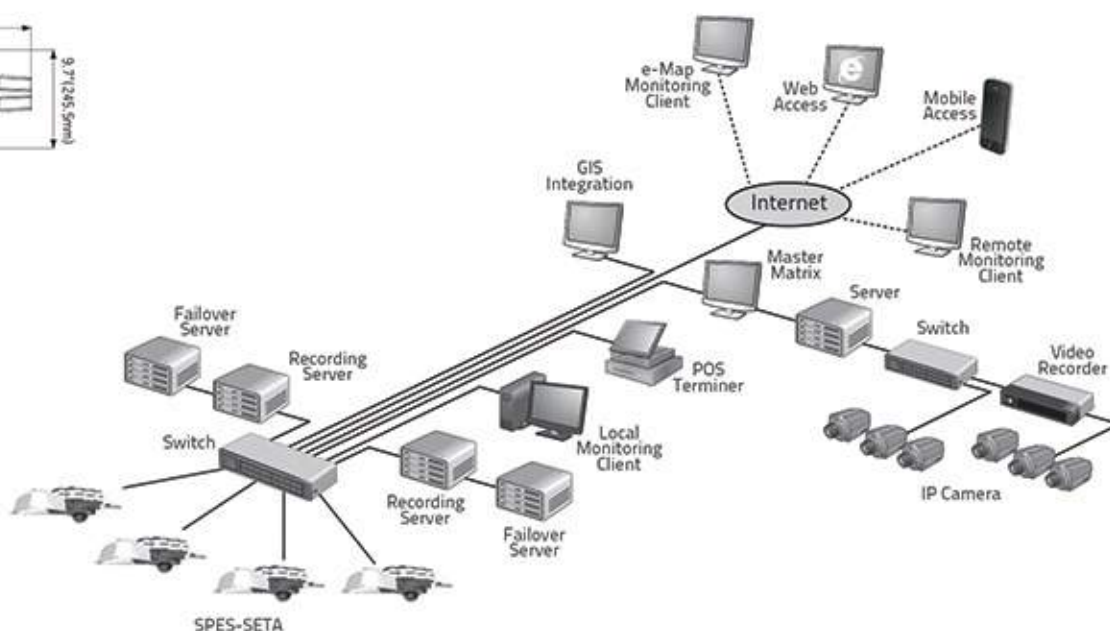
* Tolerance : ± 5%

Model	Power	Luminous Efficacy	Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SST	110W (LED: 100W, CAM:10W)	135 lm/W	13,500 lm	5000K (4000K available)	80 Ra	12 kg 26.5 lb	AC100~277V	-30°C~60°C -22°F~140°F
Body	Cast Aluminum						Control System	Wireless / Sensor (Motion, Daylight)
Cover	Tempered Glass 4T (Clear)						IP Camera	2M pixel IP Camera 10X Zoom PTZ (f=5.1 ~ 51mm) onvif
Finish	Powder Coating							
			Mounting Option	Horizontal Tenon Mount				
			Mount Hole	Ø2.4 in. (Ø60.5mm)				
			Light Distribution	Type II-S				
			Option	Whistle				

Dimensions



City Surveillance System Diagram (Central Control System)



MT & MTL META & META linear tilting

CB CE U FC DLC



High Luminous Efficacy 140 lm/W

- Excellent Light Distribution and Uniformity
- Wireless Lighting Control
- Built-in 20kV Surge Protection Device

Application

Expressway, Highways, Roadways, Streets

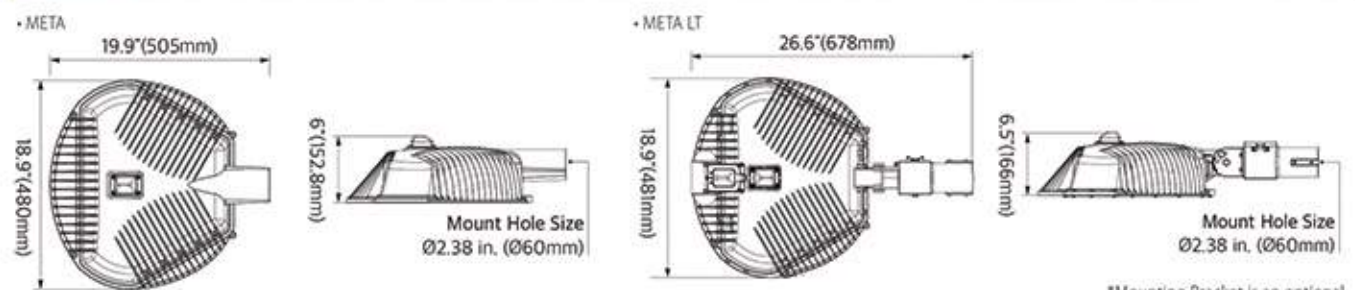
Specifications

* Tolerance: ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
MT180 MTL180	180W		25,200 lm	5000K				
MT150 MTL150	150W	140 lm/W	21,000 lm	(3000K, 4000K, 5700K available)	80 Ra	7.9 kg / 17.4 lb 7.7 kg / 16.9 lb	AC100~277V AC100~240V AC347~480V	-30°C~60°C -22°F~140°F
MT130 MTL130	130W		18,200 lm					

Body	Cast Aluminum	Mounting Option	Horizontal Tenon Mount
Cover	Tempered Glass 4T (Clear)	Light Distribution	Type III-S
Finish	Powder Coating	Control System	Wireless / Sensor (Daylight)

Dimensions



*Mounting Bracket is an optional.



LED Roadway Lighting - *Control and Alert***META-WHISTLE** Air-Alert

• META-Whistle LT UL Certified

**Emergency Signal System**

- Alert function for different event with RGBA (4 colors)
- Wireless Node
- IP66 Rated

IP 66**Application**

Highways, Roadways, Streets

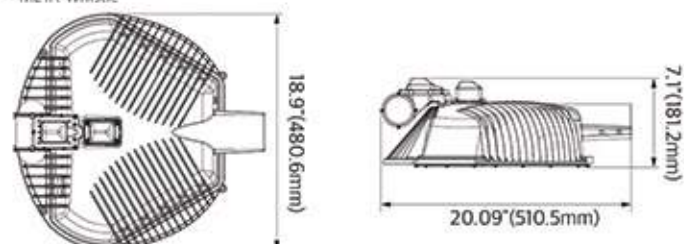
Whistle Specifications

* Tolerance : ± 5%

Model	Standard	Frequency	RF Tx Power	RF Rx Sensitivity	Transfer Speed	Transfer Distance	Color Code	Network Configuration	Operating Temp.
Whistle	IEEE 802.15.4	2.4GHz	5dBm	-96dBm	250kbps	150M	4Color (RGB & Amber)	Mesh	-30°C~60°C -22°F~140°F

Dimensions

• META-Whistle

**Whistle**

Wireless Node



Whistle (RGBA 4 colors)

System configuration

The above specifications were updated in July 2018 / The content may be subject to change without notice.

SET & STL

SETA & SETA linear tilting

DLC CB CE U L FC PSE KC



High Efficiency 135 lm/W

- Wireless Lighting Control
- Built-in 20kV Surge Protection Device

Application

Industry complexes, Business parks, Local-ways, Alley-ways.

Specifications

* Tolerance : ± 5%

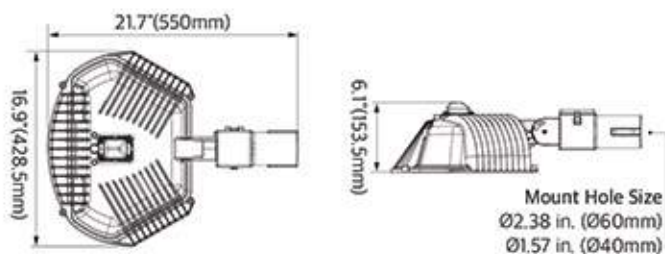
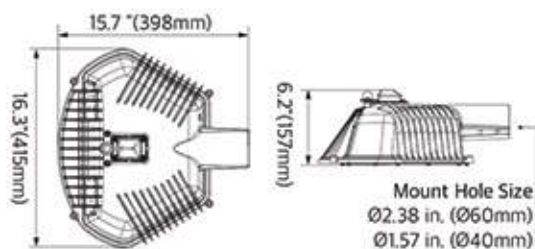
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SET100 STL100	100W	135 lm/W	13,500 lm	5000K		4.5 kg / 9.9 lb 5.5 kg / 12.2 lb		
SET080 STL080	80W	135 lm/W	10,800 lm	3000K, 4000K, 5700K available)	80 Ra	4.5 kg / 9.9 lb 5.5 kg / 12.2 lb	AC100~277 V AC100~240 V	-30°C~60°C -22°F~140°F
SET060 STL060	60W	130 lm/W	7,800 lm			4.5 kg / 9.9 lb 5.5 kg / 12.2 lb		

Body	Cast Aluminum	Mounting Option	Horizontal Tenon Mount
Cover	Tempered Glass 4T (Clear)	Light Distribution	Type II-S
Finish	Powder Coating	Control System	Wireless / Sensor (Daylight)

Dimensions

• SETA

• SETA LT



LED Roadway Lighting - *Control and Alert*

SETA-WHISTLE Air-Alert

Emergency Signal System

- Alert function for different event with RGBA (4 colors)
- Wireless Node
- IP66 Rated

Application

Highways, Roadways, Streets



IP 66

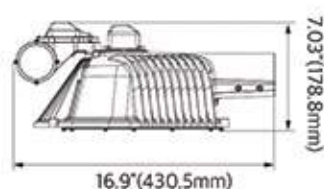
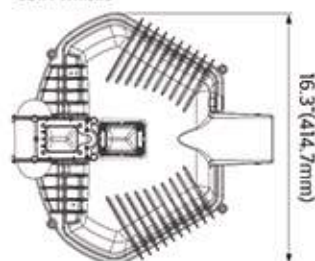
Whistle Specifications

* Tolerance : ± 5%

Model	Standard	Frequency	RF Tx Power	RF Rx Sensitivity	Transfer Speed	Transfer Distance	Color Code	Network Configuration	Operating Temp.
Whistle	IEEE 802.15.4	2.4GHz	5dBm	-96dBm	250kbps	150M	4Color (RGB & Amber)	Mesh	-30°C~60°C -22°F~140°F

Dimensions

• SETA-Whistle



Whistle



System configuration



The above specifications were updated in July 2018 / The content may be subject to change without notice.

MIN & MIL MINI & MINI linear tilting

Affordable Residential LED lighting

- Optimized to narrow road and walking ways
- Design available in a variety of installation environments
- Wireless lighting control

Application

Local road, an Alley, Public Parks



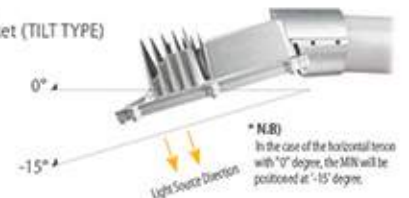
Specifications

* Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
MIN050	50W	105 lm/W	5,250 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	1.8 kg / 4.0 lb	AC200~240V	-30°C~60°C -22°F~140°F
MIL050						2.1 kg / 4.6 lb		
MIN040	40W	100 lm/W	4,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	1.8 kg / 4.0 lb	AC200~240V	-30°C~60°C -22°F~140°F
MIL040						2.1 kg / 4.6 lb		
MIN030	30W	100 lm/W	3,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	1.8 kg / 4.0 lb	AC200~240V	-30°C~60°C -22°F~140°F
MIL030						2.1 kg / 4.6 lb		
MIN020	20W	100 lm/W	2,000 lm			1.2 kg / 2.6 lb		

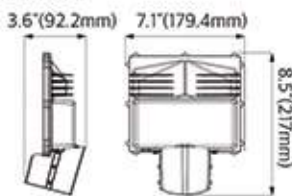
Body | Cast Aluminum
Cover | Tempered Glass 3T
Finish | Shot Blast

Mounting Option | 15° Pole Mount Bracket (FIXED TYPE) or Tilting Mount Bracket (TILT TYPE)
Light Distribution | Type II-S
Control System | Wireless / Sensor (Daylight)

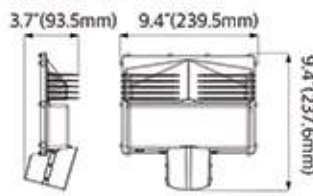


Dimensions

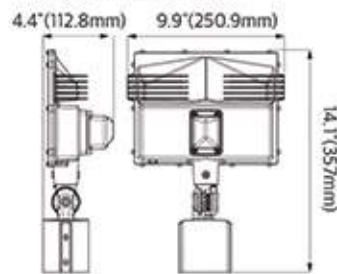
• MIN020



• MIN030 / 040 / 050



• MIL030 / 040 / 050



Mount Hole Size
Ø2.38 in. (Ø60mm)
Ø1.57 in. (Ø40mm)



USB Converter



This is connected to the PC's USB port

- In this device, the received control command is converted into a RS-485 communication signal and transmitted to the master unit.

Application

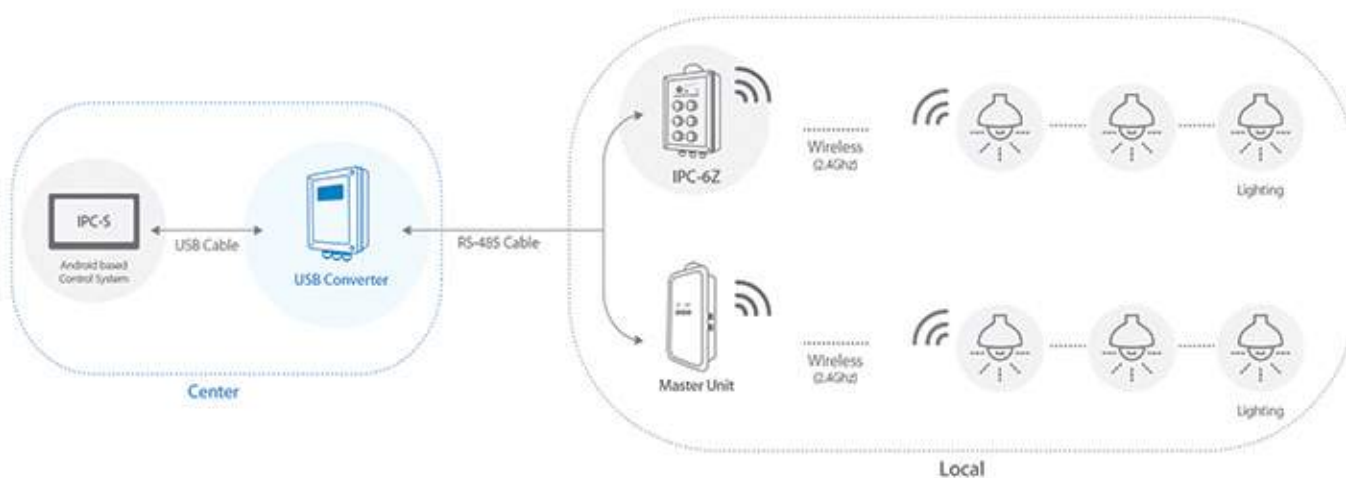
Industrial high bay, Sports Lighting, High mast, Flood Light, Indoor

Specifications

* Tolerance : ± 5%

Model	Power Consumption	Communication Method	Data Rate	Dimension	Weight	Input Voltage	Operation Temperature
USB Converter	Max. 1W	USB, RS-485	115,200[bps]	125 x 175 x 75 mm 4.9 x 6.8 x 3.0 inch	0.6 kg / 1.3 lb	DC 5V	-20°C~60°C -4°F~140°F

System configuration



*Wireless repeater is recommended for areas with poor signal reception



The above specifications were updated in July 2018 / The content may be subject to change without notice.

Master Unit

Lighting Control Unit



This device transmits the control command of the GUI operation program

- For wired communications, the master unit can monitor and control a maximum of 32 lighting fixtures.
- For wireless communications, the master unit can monitor and control a maximum of 200 lighting fixtures.

Application

Industrial high bay, Sports Lighting, High mast, Flood Light

Specifications

* Tolerance : ± 5%

Model	Power Consumption	Communication Method	Data Rate	Dimension	Weight	Input Voltage	Operation Temperature
Master	Max. 2.5W	RS-485 Wireless 250kbps	115,200[bps]	191 x 388 x 158 mm 7.5 x 15.3 x 6.2 inch	3.2 kg / 7.1lb	AC 100~277V AC 347~480V	-20°C~60°C -4°F~140°F

System configuration



The above specifications were updated in July 2018 / The content may be subject to change without notice.

IPC Intelligent Power Controller



Wall switch with dimming and schedule extension Wireless control with 10-100% dimming range

- Intelligent Power Controller
- 10~100% Brightness control
- On/Off control for each zone and group
- Wireless sensor network control
- Easy group and zone settings using a remote controller
- IPC-1Z, IPC-2Z, IPC-3Z, IPC-6Z

Application

Industrial high bay, Sports Lighting, High mast



Specifications

* Tolerance : ± 5%

Model	Power Consumption	Communication Method	Data Rate	Dimension	Weight	Input Voltage	Operation Temperature
IPC 1Z / 2Z / 3Z	Max. 2.5W	RS-485 / Wireless	115,200(bps), 8-N-1 / Wireless 250kbps	105 x 265 x 100 mm 4.1 x 10.4 x 3.9 inch	0.95 kg / 2.0 lb	AC 100~277V AC 347~480V	-20°C~-60°C -4°F~140°F
IPC - 6Z				180 x 305 x 100 mm 7.1 x 12.0 x 3.9 inch			

System configuration



*Wireless repeater is recommended for areas with poor signal reception



The above specifications were updated in July 2018 / The content may be subject to change without notice.

WOS Wireless Override Switch

Wall switch with wireless communications that extends schedule and dimming of lights

- Override Switch
- 3 step (1hr, 2hr, 3hr) Schedule extension
- ZONE schedule extension and dimming control
- Intelligent Power Controller

Application

Industrial High bay, Sports Lighting

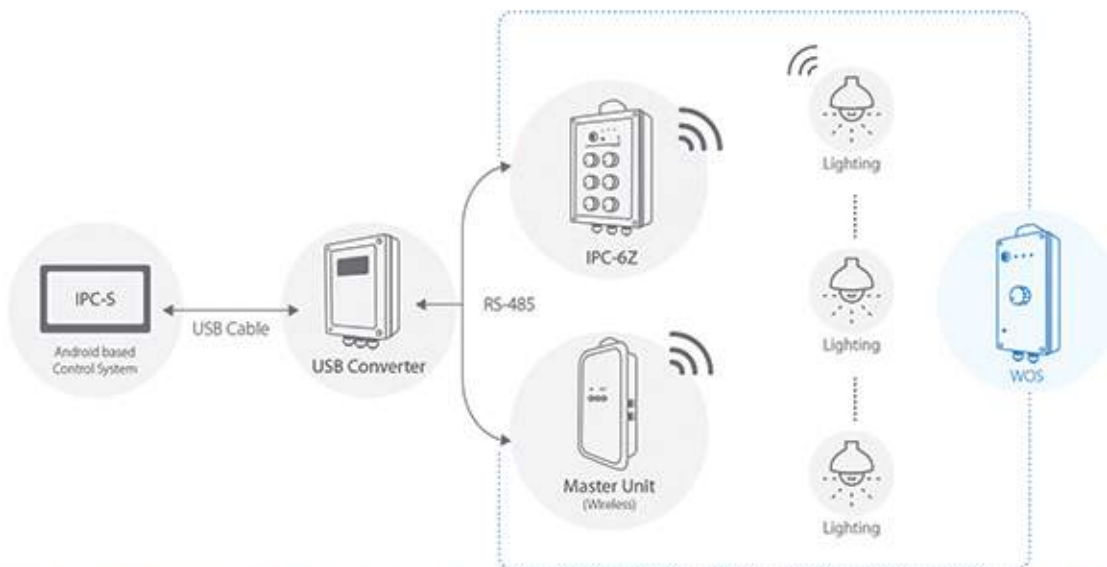


Specifications

* Tolerance : ± 5%

Model	Power Consumption	Communication Method	Data Rate	Dimension	Weight	Input Voltage	Operation Temperature
WOS	Max. 2.5W	Wireless	250kbps	105 x 265 x 100 mm 4.1 x 10.4 x 3.9 inch	0.95 kg / 2.0 lb	AC 100~277V AC 347~480V	-20°C~-60°C -4°F~-140°F

System configuration



Gateway

Roadway Lighting Control

The Gateway allows communication with command between the GeSS system and node.

- This action is carried by using 2G/3G wireless connection and Ethernet.
- Through wireless connection, the lighting fixture and node can be monitored and controlled.



Application

Highway, Roadway, Street

Specifications

* Tolerance : ± 5%

Model	Power Consumption	Communication Method	Dimension	Weight	Input Voltage	Operation Temperature
Gateway	Max. 2.5W	Ethernet, WCDMA (Web/GUI) Wireless (Lighting)	191 x 388 x 158 mm 7.5 x 15.3 x 6.2 Inch	3.2kg / 7.1 lb	AC 100~277V AC 347~480V	-20°C~60°C -4°F~140°F

System configuration

• Wireless

*For local control only due to the distance limitation



• Wired




* Notes

Up to monodirectional *LOS@200M is valid between the gateway and the first node.
One gateway can be used to control up to 200 roadway lightings.





About GigaTera



Giga, stands for the frequency range in wireless telecommunications,
Tera, stands for the frequency range in LED lighting.

GigaTera pursues a unique and state-of-the-art
IT converged lighting technology in intended for
contributing to human society.

The most current version of this document will always be available in website
www.gigateraled.com

GigaTera reserves the right to make changes without notice
in order to supply the best product possible.

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The color printed in the brochure may differ from the actual product.

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All illustration and Specification contained in this brochure are based on the latest product information available at the time of printing. 2018. 07. Printed

**ASSOCIATION LETTER
TO WHOM IT MAY CONCERN**

Ref: GTIPL/ON/AL/01.01
Date: 1st January 2019

To,
ORNATE NATURALE
#9/4, "ORNATE HOUSE"
Museum Road, Bangalore-560001
Work: B-19, HMT Industrial Estate, Jalahalli, Bengaluru-560013.
Contact: Mr. Laakshman Sastry
Mobile +91-9880784099
Web: <http://www.ornate-eccotechsolutions.com/>

Dear Sir,
Subject: GIGA TERA LED LIGHTING – MARKETING & SALES REPRESENTATIVE

Giga Tera INC is a specialist LED Lighting Company founded in South Korea and having a subsidiary company Giga Tera India Pvt. Ltd. based at Gurgaon, Haryana. The company has a very strong R&D focus resulting in many innovations and patents in the field of LED Lighting. Giga Tera has a global presence and has carried out many specialized LED lighting projects worldwide.

The company is headquartered at Dongtan, South Korea with manufacturing units in South Korea & Vietnam. Giga Tera has worldwide operations and has international offices located at USA, Japan, China, EU, Middle East, Turkey and India.

We hereby appoint your firm as our Region Representatives to market and establish the Giga Tera brand for LED lighting products and also submit and implement techno-commercial proposals for LED lighting solutions. We are pleased to confirm that you shall be provided with our full technical support by way of specialized lighting design simulations, product selection, import and supply of the LED Product, BIS certification of product etc. We shall also provide supervision during the installation, testing & commissioning of the system at site and also provide the free warranty to the customer as per terms of the order.

We look forward to associate with your company to establish the Giga Tera brand and for obtaining orders for the Giga Tera product line in India.

This association letter is valid for a period of one year and shall be reviewed and extended after mutual agreement of both parties.

GIGA TERA INDIA PVT. LTD.


J B Chung Authorised Signatory
Managing Director
Giga Tera India Pvt Ltd

LED LIGHTING CATALOG

www.gigateraled.com

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