2024

ver.24.1

ICEPIPE

LED LIGHTING

ICEPIPE PRODUCT CATALOGUE

ICEPIPE

www.icepipeLED.com

We try to be 30% better

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LED FLOOD LIGHT

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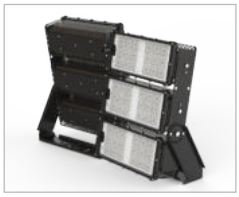

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LED BULB

p.42 OB150N

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History

ICEPIPE is leading the development of LED lighting with patented technology and continuous research

2022

Jun. New release of LED flood light ITN 300C
May. Flood lights(4 models) with mechanical coupling to use oscillating capillary tube heatsink as heat dissipation material were registered as Excellent Production

2021

May. Convention on the “Development and Demonstration of 2017 Waste Heat Renewable Thermoelectric Generation System” for the National Energy Management Corporation

2020

Oot. OB Series (13 models) with Hollow Ventilation Heat Dissipation Technology were registered as Excellent Product in Korea Public Procurement Market.
New release of high output LED lamp OB230c (120W)
May. Oscillating Capillary Tube Heat Pipe Pressurized Coupling Technology acquired Green Technology certification
JAN New release of high output LED bulb OB200c

2019

Nov. OB Series (5 models) with Hollow Ventilation Heat Dissipation Technology were registered as Excellent Production.
Jul. Hollow Ventilation Heat Dissipation Technology got ‘K mark’ certification
Jun. New release of ultra-high output LED floodlight CTC8010-800W. Patent for Oscillating Capillary Tube Heatsink Pressurized Coupling Technology.
Jan. New release of smart LED lamp HB2000 80W & 100W

2018

Jul. Launched e-Biz management system
Jun. Minister’s award from South Korean Ministry of Trade, Industry and Energy (MOTIE)
Apr. New release of ultra-high output LED flood light with external power, CD4010 300W & 400W
Jan. New release of ultra-efficient and high output LED bulb, OB150 & OB230 series

2017

Nov. New release of modular LED street light DR2000 / tunnel light DT2000
Aug. New release of high output LED floodlight with external power, CT8010 600W & 700W
May. New release of high output LED bulbs(square type) OBB 60W L+, 80W L+ & OBBc 80W L+
Feb. EU Liaison Office established(Germany) in February 2017, Establishment planned since December 2016

2016

Aug. Launch of Super High Power LED Flood Light CT8000 700W
Jun. Won KOTRA Award for High Output LED Bulb OBB 80W L+
Jun. Selected as KICOX Global Leading Company
Mar. Selected as G-PASS company by Public Procurement

2015

Dec. US branch office(ICEPIPE Corp. USA) established
Sep. Acquired KS(Korean Standards) Mark (LED Flood Light) CT3000, CH2500 LED lighting, LED Downlight POP200 launched
Jul. High Power LED Bulb OBB (60W, 80W), OBM launched
May. UR2000, CD4000 LED lighting launched
Mar. LED Bulb OBB 18W, 25W launched

Creative Thinking

Technology Research

Eco-Friendly Management Ideals

2014

Dec. High Power Omni LED Bulb and Ultralight High Power LED Floodlight selected as World class Products of 2014
(OBB / CT2050 / CT2550 / CT5000 / CT8000)

Nov. LED Bulb OBA2 / High Power LED CD800, CD1500 LED lighting launched

Jun. CH2000, CT2000, CT2500 lighting launched

Mar. Omni LED Bulb, Winner of the Red Dot Product Design Award 2014 (One of the world's top 3 design awards : Red Dot, iF, IDEA)

Feb. LED Downlight POP LED launched

2013

Nov. Cheonan (Korea) Factory established

Oct. Won KES's the Best New Product Award

Aug. Daegu (Korea) Branch Office established

Jul. CR2000 150W LED Lighting launched

May. Omni LED Bulb launched

Apr. Certified for High Energy Efficiency Equipment
*LED Street Light 120W, LED Security Light 60W

Mar. Designated as Government's Excellent Products
*LED Flood Light 400W, 700W

2012

Sep. Designated as the Products for Government's Obligation Purchase by Korea's Public Procurement Sevice(PPS)
*LED Flood Light 100W, 150W / LED Street Light 150W, 200W / LED Tunnel Light 80W

Jun. Acquired KS (Korean Standards) Mark
*LED Tunnel Light / LED Street Light

Apr. Designated as Excellent Products by Korea's Public ProcurementService(PPS) *LED Flood Light 100W, 150W, 200W

Feb. Acquired NEP(New Excellent Product) Certification
(Ministry of Trade, Industry & Energy, Republic of Korea (MKE))

2011

Dec. Won Korean World-class Product Award from Ministry of Trade, Industry & Energy, Republic of Korea (MKE)

Dec. Acquired High-Efficiency Appliance Certification MIKE / KEMCO
(Korean Energy Management Corporation)

Oct. Patent for LED Lighting & Display Apparatus registered

2010

Nov. Established R&D Center

Nov. Acquired Quality Management System (ISO 9001:2008 Certification)

Sep. Acquired NET(New Excellent Technology Certification Administered by Ministry of Trade, Industry & Energy, Republic of Korea(MKE))

Aug. ICEPIPE Corporation founded

2009

Aug. Patent for Lighting & Display Apparatus with ICEPIPE technology registered

Apr. Patent for Heatpipe-type Heat Dissipation Apparatus registered

2008

Aug. Design Patent for Heat Dissipation Apparatus registered

2007

Jan. ICEPIPE research began

CERTIFICATION

Patented technology of ICEPIPE and a number of quality certificates prove the excellence of our products.

Patent

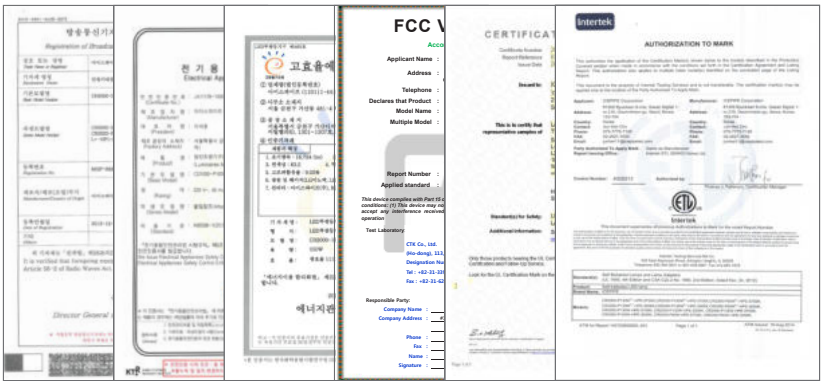
- Korea
- US
- China
- Japan
- Europe
- Canada
- Taiwan
- Australia
- New Zealand
- The Philippines
- Mexico
- Eurasia
- Russia

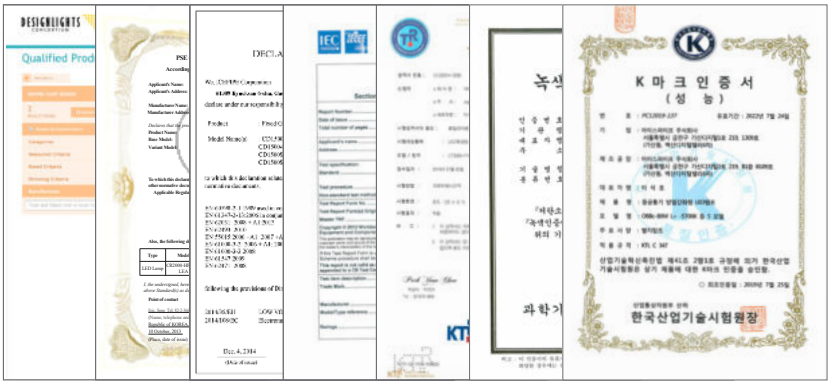
Design Right

- Korea
- US
- China
- Japan
- Europe
- Canada
- Australia
- Brazil
- India
- Indonesia
- Thailand
- The Philippines
- Vietnam
- Mexico
- Russia

Certificates Documents

- Enterprise Institute Certificate
- Venture Business Confirmation
- ISO 9001 Certificate
- ISO 14001 Certificate
- Excellent Product Certificate
- KS Certificate
- EMC Certificate
- KC Electrical Appliances Safety Certificate
- High Efficiency Energy Certificate
- FCC Certificate
- UL Certificate
- ETL Certificate
- DLC Certificate
- PSE Certificate
- CE Certificate
- CB Certificate
- Water·dust proof test(IP67)
- Green Technology Certificate
- K mark Certificate





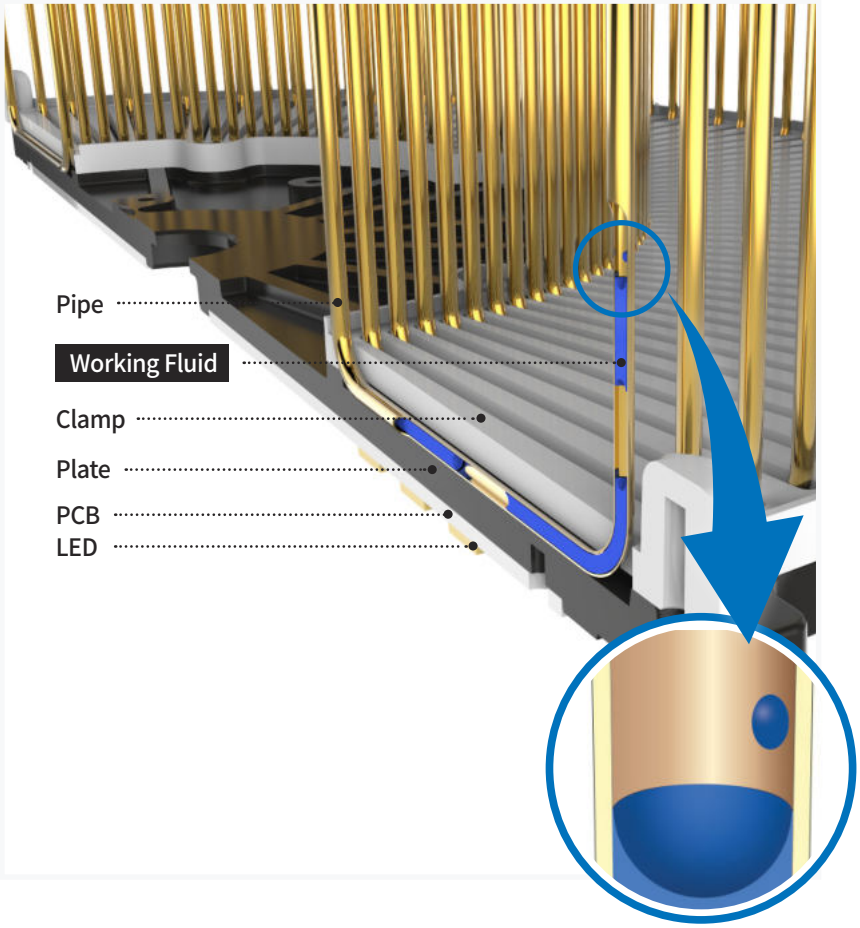
FDP Technology

(Fluid Dynamic Pressures)

TECHNOLOGY 1

Patent technology of ICEPIPE-Improved heat dissipation by fast heat transfer using FDP

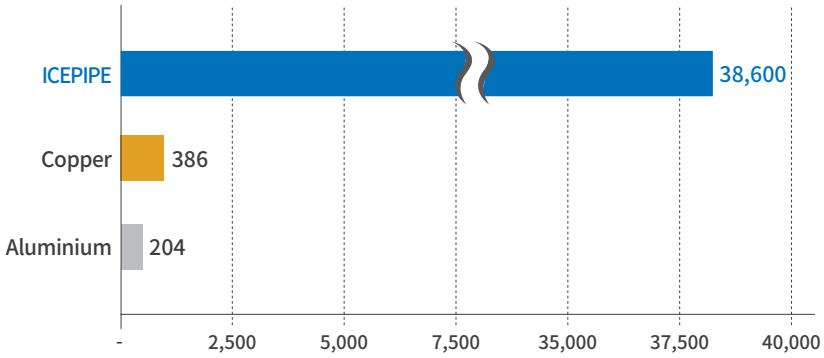
- The fastest heat transfer rate by excellent air flow
- Sufficient heat dissipation area
- ICEPIPE's thermal conductivity = 40,000 W/m·K
- Less raw materials used reducing the weight and production cost



Patent

Heat Transfer Rate Comparison

Heat transfer rate of ICEPIPE heat sink is 200 times higher than the one of Aluminium.



V_{TWM} (Value of Thermal resistance Weight Multiplier)

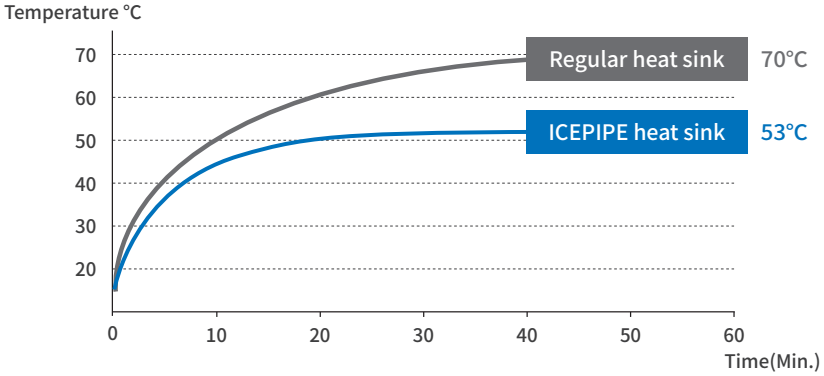
LED lighting with VTWM below 1 signifies minimization of weight and temperature.

$$V_{TWM} = \frac{Tm\ (°C) \times Hw\ (kgf)}{P\ (W)} < 1$$

- Tm(°C) : LED PCB Temp
- Hw(kgf) : Weight of heat sink
- P(W) : LED luminaire's total power consumption

Temperature Comparison

ICEPIPE's world-class technology dramatically reduces LED temperature.



- Ambient Temperature : 24 °C
- Test Samples : Same volume heat sinks of ICEPIPE and its competitors.

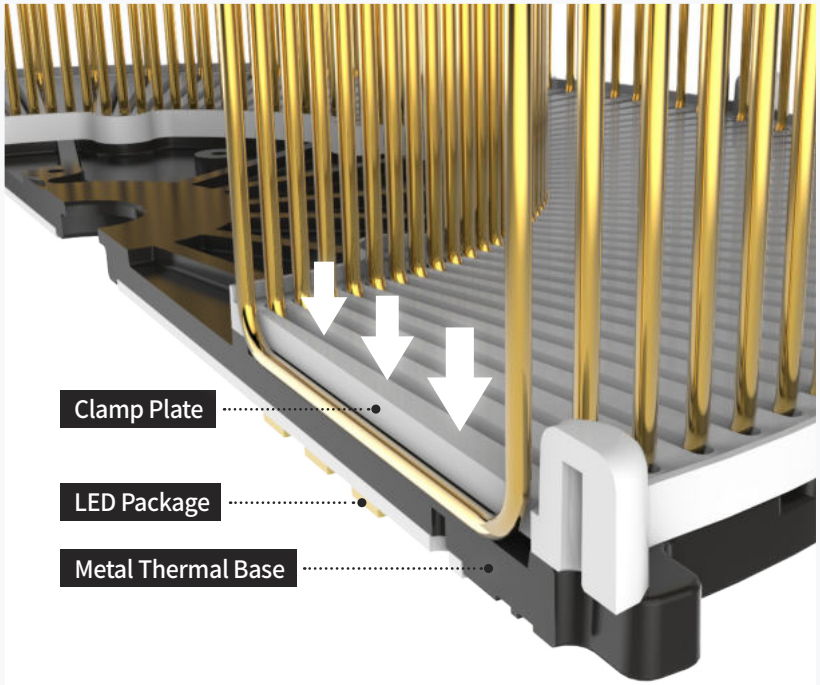
Clamping Technology

Oscillating Capillary Tube Heatsink

TECHNOLOGY 2

Unique heat dissipation technology using directional and elastic clamps

- Mechanical coupling to use oscillating capillary tube heatsink as heat dissipation material
- Mechanical bonding of heating part and heatsink made excellent durability
- Pressurized assembly by using elastic deformation of clamp
- Improved heat dissipation performance and reduced material cost compared to conventional adhesive (epoxy, etc.) bonding methods



Patent

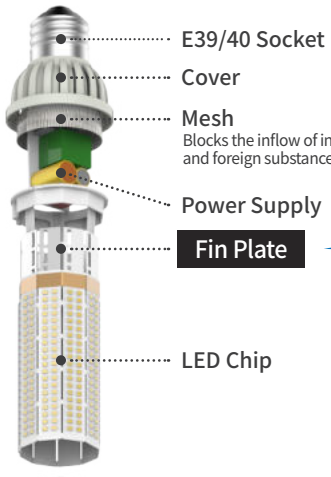
Green Technology Certificate

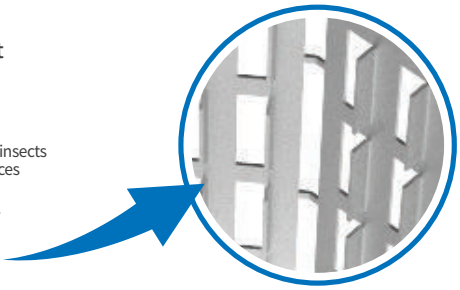
Fin Plate Ventilation Technology

TECHNOLOGY 3

Patented Fin Plate Technology improved air-cooling heat dissipation

- Folded LED PCB provides better air flow
- Excellent heat dissipation by patented Fin Plate Technology
- Usable with multiple lighting fixtures in various sites
- Compliable with industrial standards such as structural, electrical, optical characteristics, drop, temperature test, factory inspection, etc.





Improved heat dissipation by increased transfer area

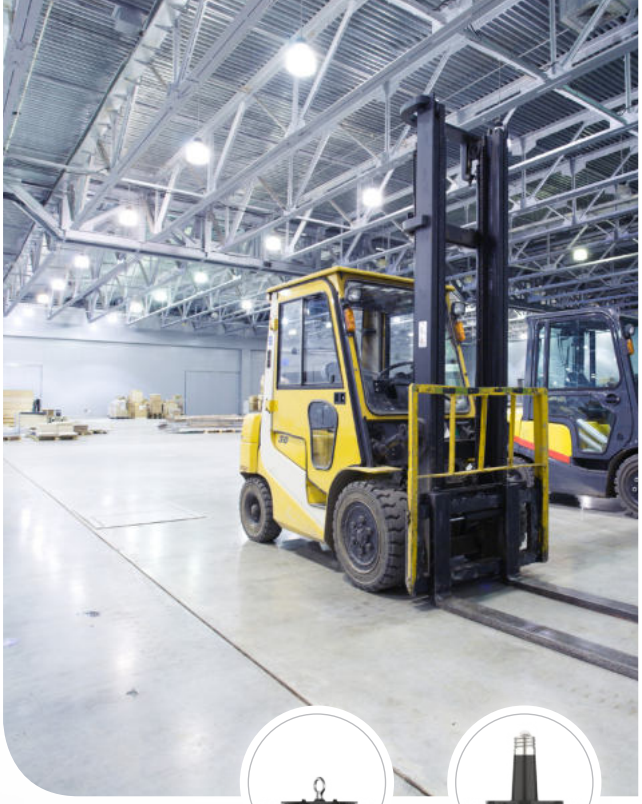
Patent

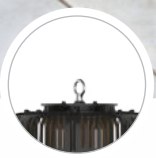
Excellent Product Certificate

K mark Certificate

80 W / 100 W

HB2000



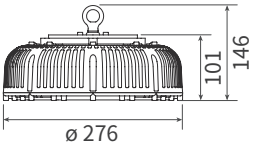


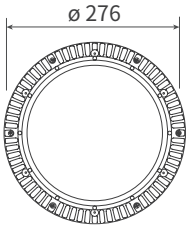
Hook Type

Socket Type

DIMENSION

- Size : ø 276 x 146 mm
- Weight : 2.1 kg





FEATURES

- Clamping Technology applied LED high bay
- High luminous efficacy (150 lm/w)
- LED replacement for MH 250~350 W with 75% electricity saving
- Installable vertically and horizontally at any angle
- Various cover options and mounting options are available
- Various beam angle are available with cover lens
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
HB2000-80S	80 W	MH 250 W	150 lm/W	12,000 lm	80 Ra	5,700 K	AC 120-277 V	50/60 Hz
HB2000-100S	100 W	MH 350 W	150 lm/W	15,000 lm				

- PF : > 0.96
- THD : < 15 %
- Surge withstand capability : 4 kV
- IP Rating : -
- Material : Polycarbonate
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

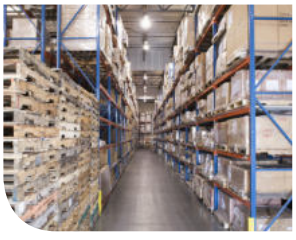
*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Factory

Gymnasium

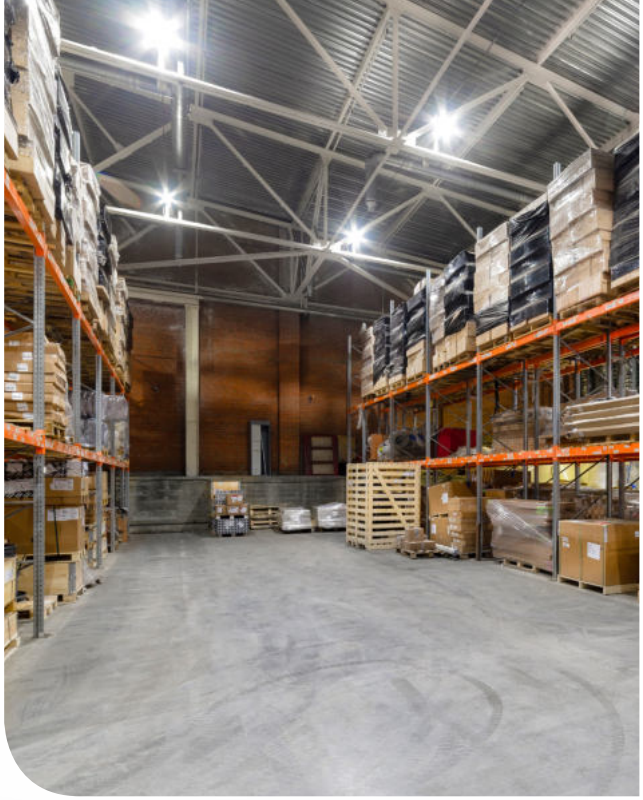
Auditorium



Warehouse

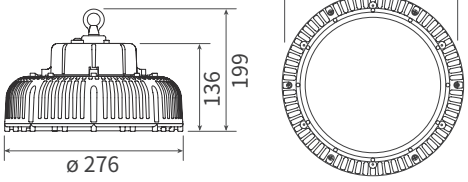
130 W / 150 W

HB2200



DIMENSION

- Size : ø 276 x 199 mm
- Weight : 2.6 kg



FEATURES

- Clamping Technology applied LED high bay
- High luminous efficacy (150 lm/w)
- LED replacement for MH 400~500 W with 70% electricity saving
- Installable vertically and horizontally at any angle
- Various cover options and mounting options are available
- Various beam angle are available with cover lens
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
HB2200-130S	130 W	MH 400 W	150 lm/W	19,500 lm	80 Ra	5,700 K	AC 120-277 V	50/60 Hz
HB2200-150S	150 W	MH 500 W	150 lm/W	22,500 lm				

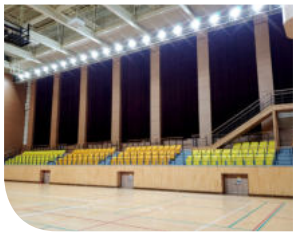
- PF : > 0.96
- THD : < 15 %
- Surge withstand capability : 4 kV
- IP Rating : -
- Material : Polycarbonate
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Factory

Swimming Pool

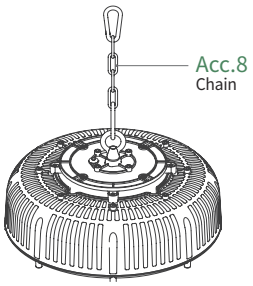

Auditorium

Warehouse

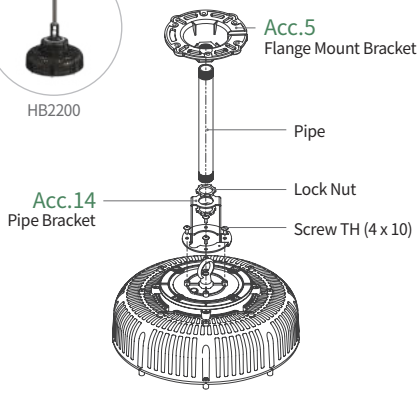
HB2000 / HB2200

INSTALLATION TYPE * Illustrated by HB2000

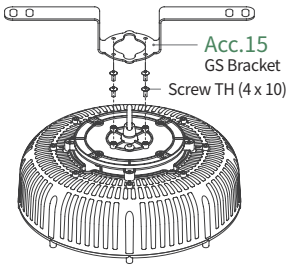
① Chain



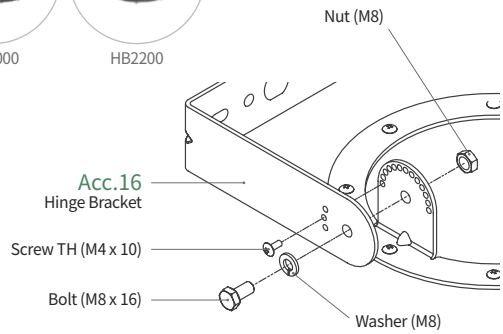
② FMB Pipe Bracket



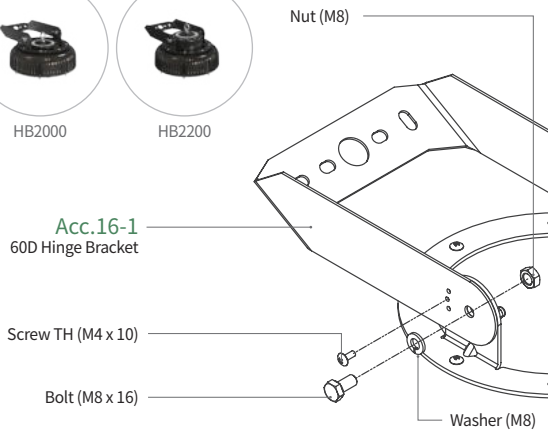
③ GS Bracket



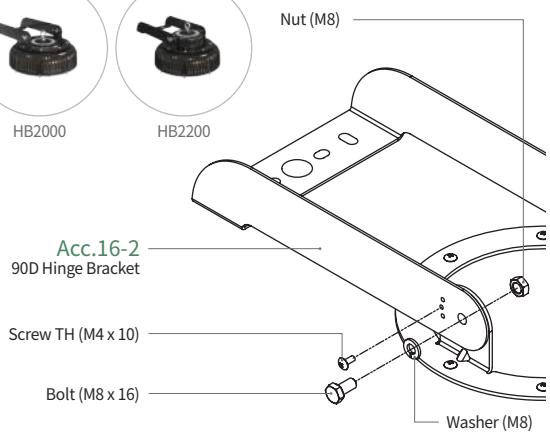
④ Hinge Bracket



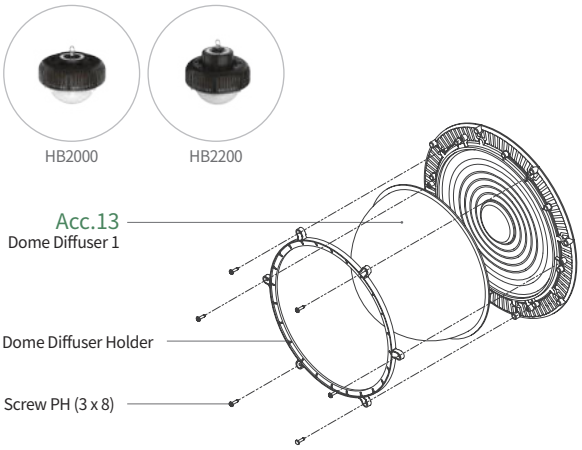
⑤ 60D Hinge Bracket



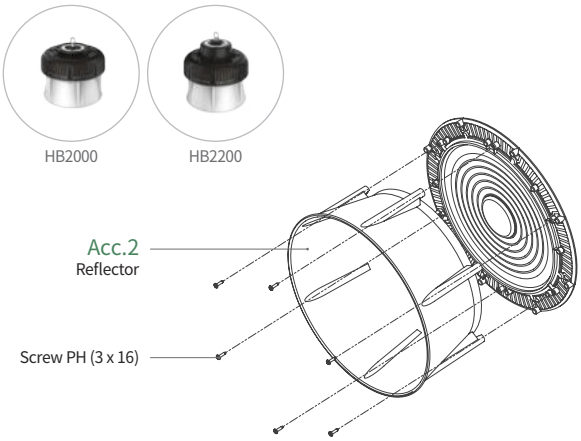
⑥ 90D Hinge Bracket



Acc.13 Dome Diffuser

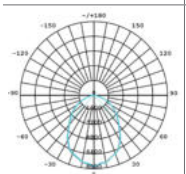
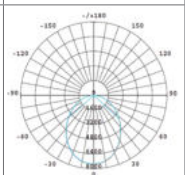
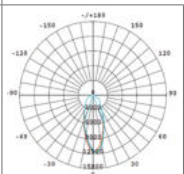
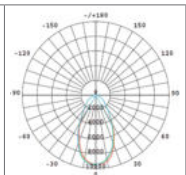
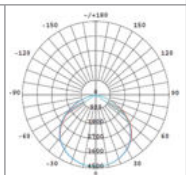
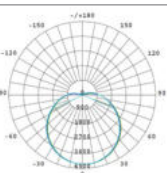
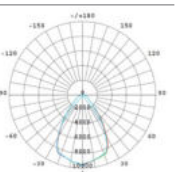


Acc.2 Reflector



Beam Angle

* Illustrated by HB2000

Standard Clear	Diffuser Cover	Cover Lens			Dome Diffuser	Reflector
						
80°	97°	45°	60°	110°	130°	65°

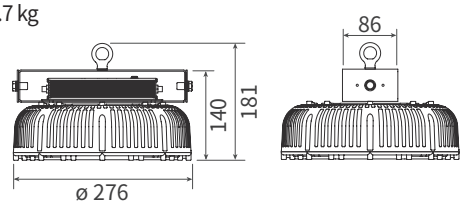
External Driver

60W / 80 W / 100 W

HB2010

DIMENSION

- Size : ø 276 x 181 mm
- Weight : 2.7 kg



FEATURES

- Convenient maintenance with external driver
- Clamping Technology applied LED high bay
- High luminous efficacy (150 lm/W)
- LED replacement for MH 200~350 W with 75% electricity saving
- Various cover options and mounting options are available
- Various beam angle are available with cover lens
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency	Surge withstand capability
HB2010-60S	60 W	MH 200 W	150 lm/W	9,000 lm	80 Ra	5,700 K	AC 100-240 V	50/60 Hz	2kV(L-N) 4kV(Line-FG)
HB2010-80S	80 W	MH 250 W	150 lm/W	12,000 lm	80 Ra	5,700 K	AC 220-240 V	50/60 Hz	4 kV
HB2010-100S	100 W	MH 350 W	150 lm/W	15,000 lm					

- PF : > 0.96 (HB2010-60S : > 0.9)
- THD : < 15 % (HB2010-60S : < 20 %)
- IP Rating : -
- Material : Polycarbonate, STS
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- External Driver : 100W x 1EA (3 in 1 dimming: 0-10V/PWM/3-Timer-Modes for 60S)
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Factory

Gymnasium

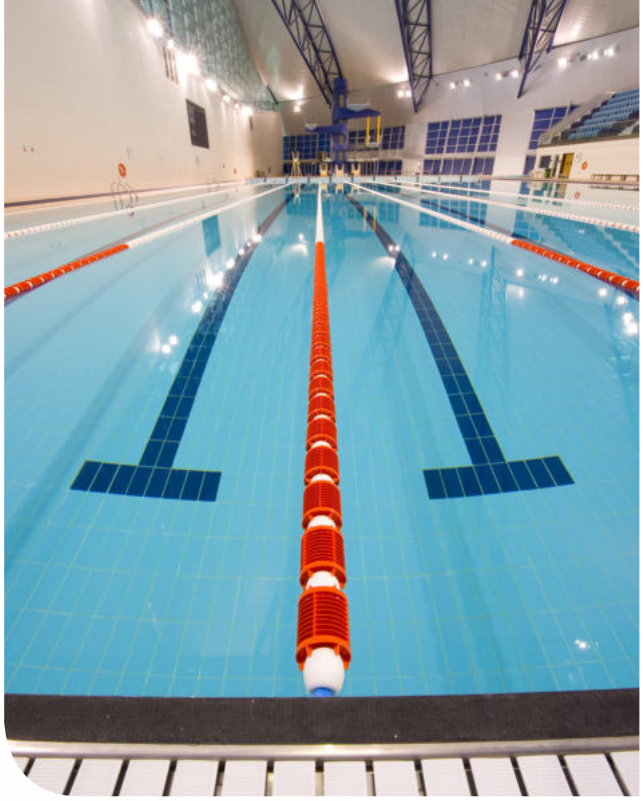
Auditorium

Warehouse

External Driver

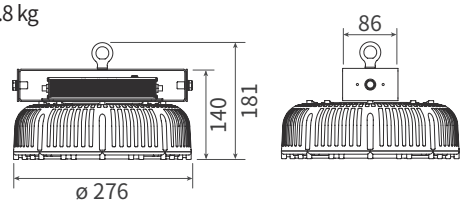
130 W / 150 W

HB2210
HB221D



DIMENSION

- Size : ø 276 x 181 mm
- Weight : 2.8 kg



FEATURES

- Convenient maintenance with external driver
- Clamping Technology applied LED high bay
- High luminous efficacy (150 lm/W)
- LED replacement for MH 400~500 W with 70% electricity saving
- Various cover options and mounting options are available
- Various beam angle are available with cover lens
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

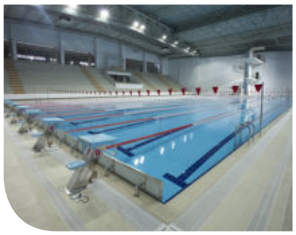
Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency	Surge withstand capability
HB2210-130S	130 W	MH 400 W	150 lm/W	19,500 lm	80 Ra	5,700 K	AC 220-240 V	50/60 Hz	4 kV
HB2210-150S	150 W	MH 500 W	150 lm/W	22,500 lm					
⚠ HB221D-130S	130 W	MH 400 W	150 lm/W	19,500 lm	80 Ra	5,700 K	AC 100-240 V	50/60 Hz	6kV(L-N) 10kV(Line-FG)
⚠ HB221D-150S	150 W	MH 500 W	150 lm/W	22,500 lm					

- PF : > 0.96
- THD : < 15 % (HB221D : < 10 %)
- IP Rating : -
- Material : Polycarbonate, STS
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- External Driver : 150W x 1EA (3 in 1 dimming: 0-10V/PWM/3-Timer-Modes for D-150S)
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Factory


Swimming Pool

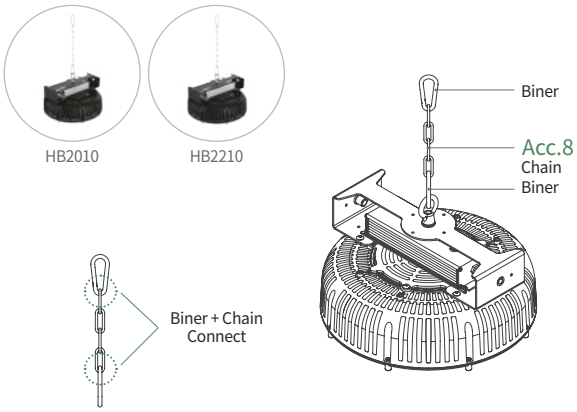
Gymnasium

Warehouse

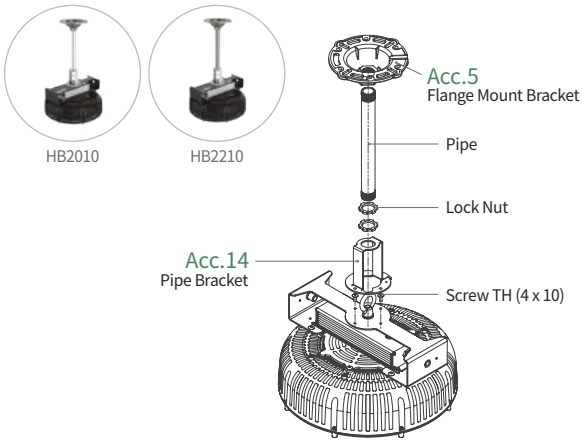
HB2010 / HB2210

INSTALLATION TYPE * Illustrated by HB2010

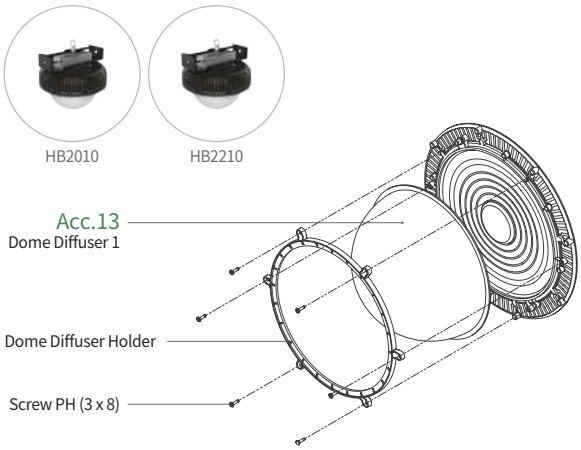
① Chain



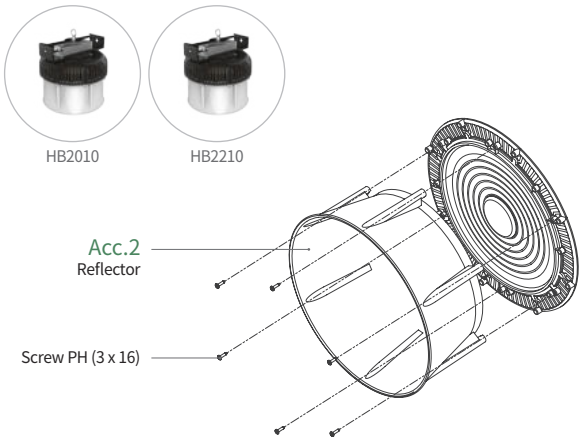
② FMB Pipe Bracket



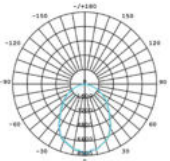
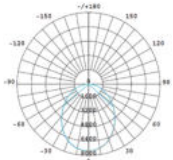
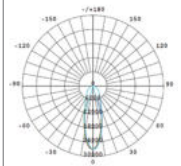
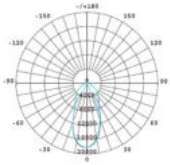
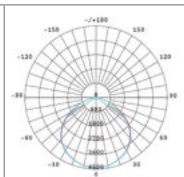
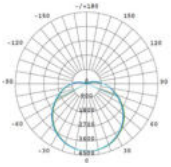
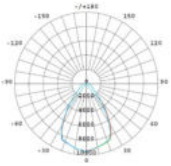
Acc.13 Dome Diffuser



Acc.2 Reflector



Beam Angle * Illustrated by HB2010

Standard Clear	Diffuser Cover	Cover Lens			Dome Diffuser	Reflector
						
80°	97°	35°	50°	110°	130°	65°

Dimming Option

+ Dimmer Sensor Gateway

- 0-10V/PWM/3-Timer-Modes
- Motion/daylight sensor
- Wireless/wired control applicable

If it's not compatilbe dimming (0-10V, PWM, 3-timer-modes), interface controller is required.
e.g.) If it's connected with DALI/DMX, additional switching module (DALI-PWM converter) is needed.

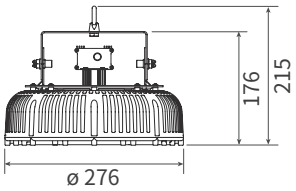
External Driver

200 W

HB2510

DIMENSION

- Size : ø 276 x 215 mm
- Weight : 4 kg



FEATURES

- Convenient maintenance with external driver
- Clamping Technology applied LED high bay
- Through a double-array ICEPIPE, expanded heat dissipation space even having less volume
- High luminous efficacy (140 lm/W)
- LED replacement for MH 600 W with 70% electricity saving
- 360 degree installation without restriction.
- Various beam angle are available with cover lens
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

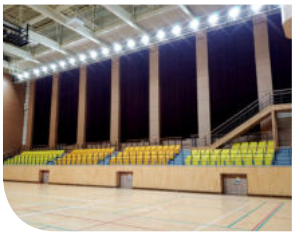
Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
HB2510-200S	200 W	MH 600 W	140 lm/W	28,000 lm	80 Ra	5,700 K	AC 100-240 V	50/60 Hz

- PF : > 0.96
- THD : < 10 %
- Surge withstand capability : 6kV(L-N), 10kV(Line-FG)
- IP Rating : -
- Material : Polycarbonate, STS
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- External Driver : 200W x 1EA (3 in 1 dimming: 0-10V/PWM/3-Timer-Modes)
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)
  *LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Factory

Gymnasium

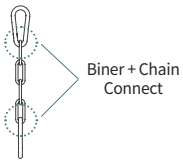


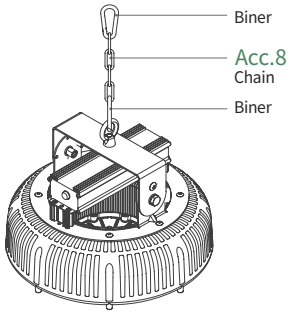
Auditorium

Warehouse

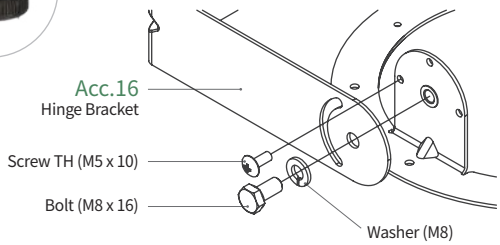
INSTALLATION TYPE

① Chain

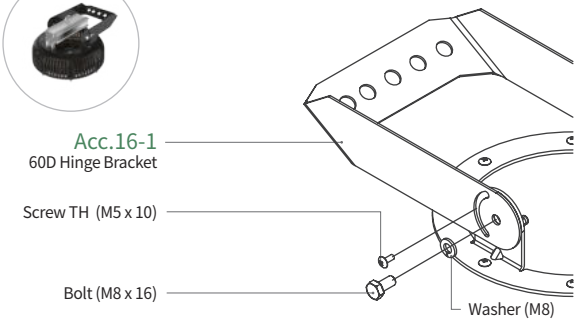




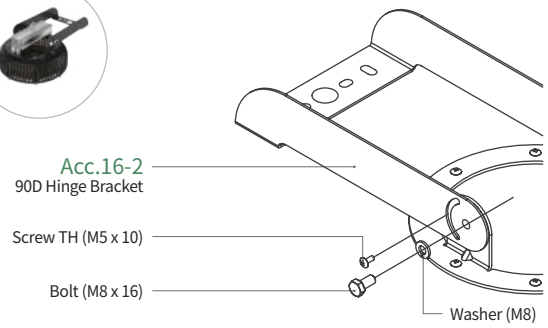
② Hinge Bracket



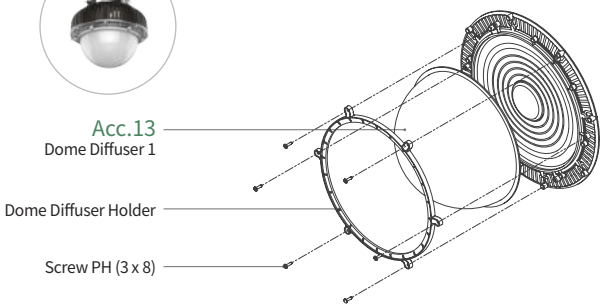
③ 60D Hinge Bracket



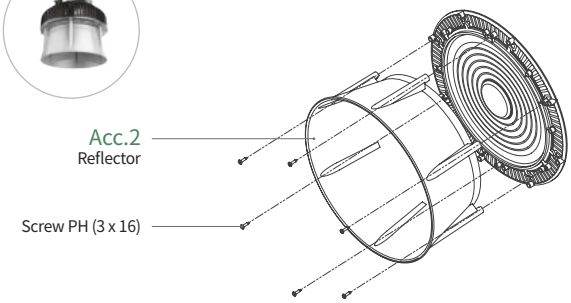
④ 90D Hinge Bracket



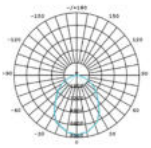
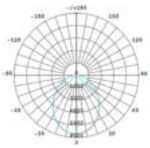
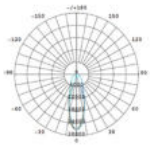
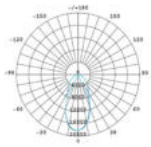
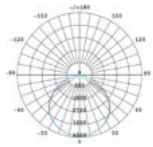
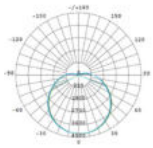
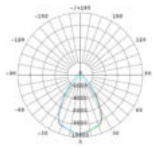
Acc.13 Dome Diffuser



Acc.2 Reflector



Beam Angle

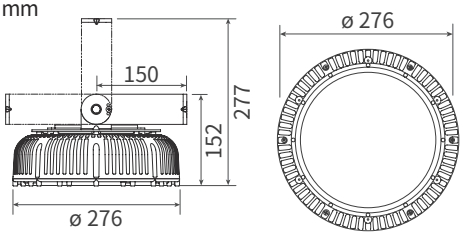
Standard Clear	Diffuser Cover	Cover Lens			Dome Diffuser	Reflector
						
80°	97°	35°	50°	110°	130°	65°

80 W / 100 W

HB2000

DIMENSION

- Size : ø 276 x 277 mm
- Weight : 2.7 kg



FEATURES

- Clamping Technology applied LED flood light
- High luminous efficacy (150 lm/W)
- LED replacement for MH 250~350 W with 75% electricity saving
- Installable vertically and horizontally at any angle
- Various cover options and mounting options are available
- Various beam angle are available with cover lens
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
HB2000-80S	80 W	MH 250 W	150 lm/W	12,000 lm	80 Ra	5,700 K	AC 120-277 V	50/60 Hz
HB2000-100S	100 W	MH 350 W	150 lm/W	15,000 lm				

- PF : > 0.96
- THD : < 15 %
- Surge withstand capability : 4 kV
- IP Rating : IP66
- Material : Polycarbonate, STS
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Military Border

Outdoor Sports Facilities

Building Exterior

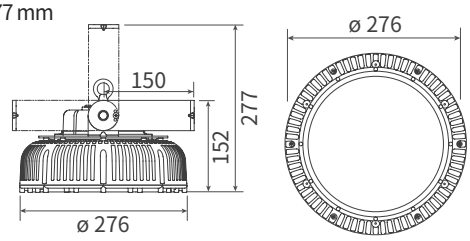
Gas Station

130 W / 150 W

HB2200

DIMENSION

- Size : ø 276 x 277 mm
- Weight : 3.3 kg



FEATURES

- Clamping Technology applied LED flood light
- High luminous efficacy (150 lm/W)
- LED replacement for MH 400~500 W with 70% electricity saving
- Installable vertically and horizontally at any angle
- Various cover options and mounting options are available
- Various beam angle are available with cover lens
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
HB2200-130S	130 W	MH 400 W	150 lm/W	19,500 lm	80 Ra	5,700 K	AC 120-277 V	50/60 Hz
HB2200-150S	150 W	MH 500 W	150 lm/W	22,500 lm				

- PF : > 0.96
- THD : < 15 %
- Surge withstand capability : 4 kV
- IP Rating : IP66
- Material : Polycarbonate, STS
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Outdoor Parking Lot

Outdoor Sports Facilities

Building Exterior

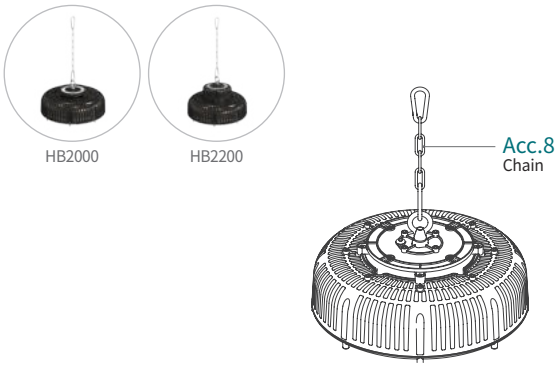
Gas Station

HB2000 / HB2200

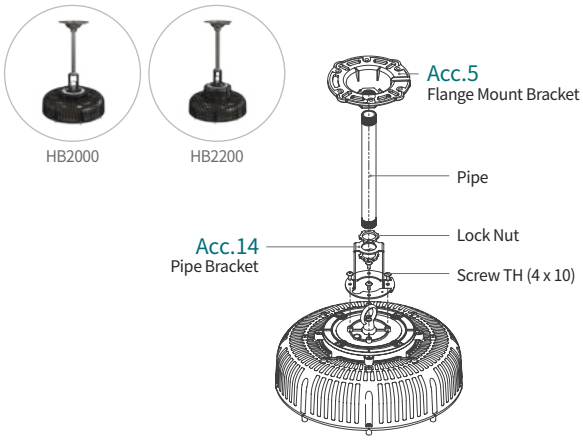
INSTALLATION TYPE

* Illustrated by HB2000

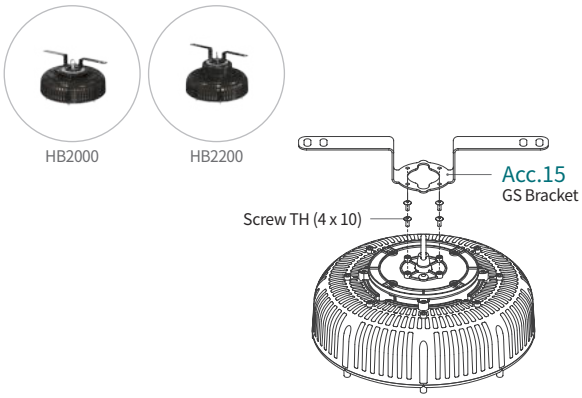
① Chain



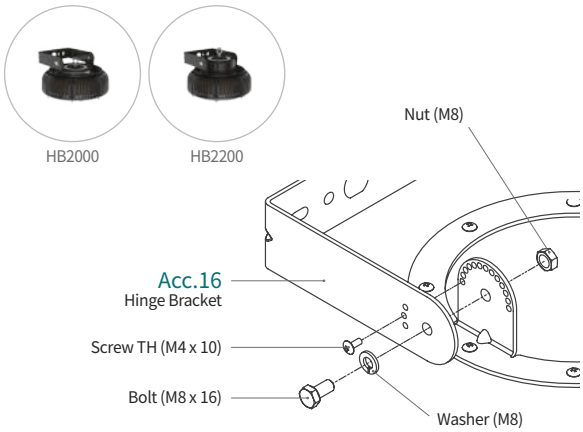
② FMB Pipe Bracket



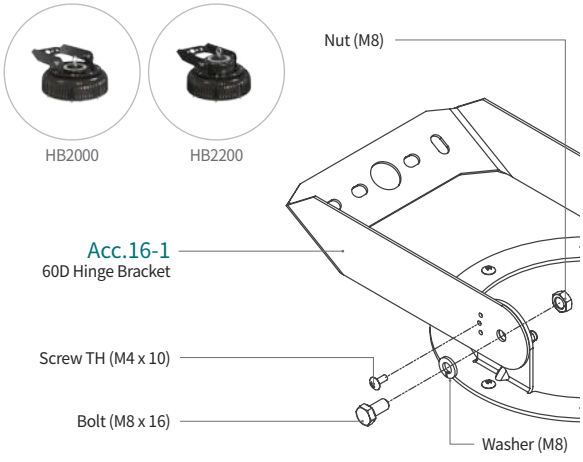
③ GS Bracket



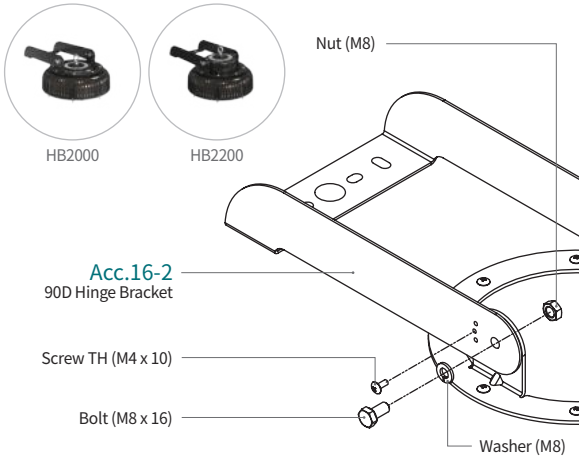
④ Hinge Bracket



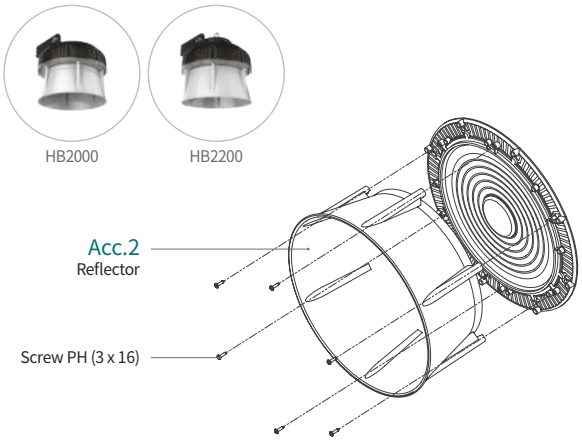
⑤ 60D Hinge Bracket



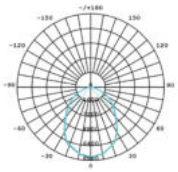
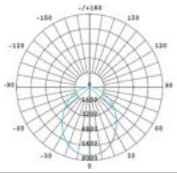
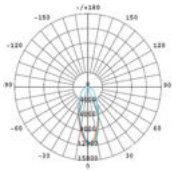
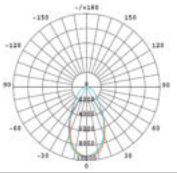
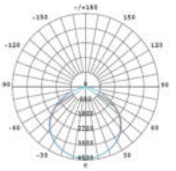
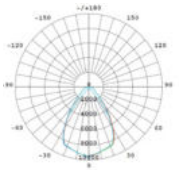
⑥ 90D Hinge Bracket



Acc.2 Reflector



Beam Angle * Illustrated by HB2000

Standard Clear	Diffuser Cover	Cover Lens			Reflector
					
80°	97°	45°	60°	110°	65°

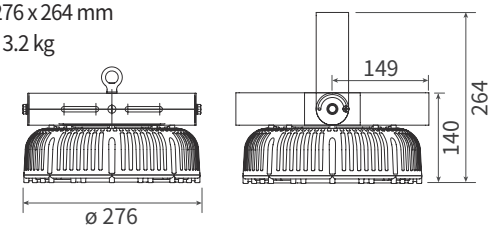
External Driver

60W / 80 W / 100 W

HB2010

DIMENSION

- Size : ø 276 x 264 mm
- Weight : 3.2 kg



FEATURES

- Convenient maintenance with external driver
- Clamping Technology applied LED flood light
- High luminous efficacy (150 lm/W)
- LED replacement for MH 200~350 W with 75% electricity saving
- Various cover options and mounting options are available
- Various beam angle are available with cover lens
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency	Surge withstand capability
HB2010-60S	60 W	MH 200 W	150 lm/W	9,000 lm	80 Ra	5,700 K	AC 100-240 V	50/60 Hz	2kV(L-N) 4kV(Line-FG)
HB2010-80S	80 W	MH 250 W	150 lm/W	12,000 lm	80 Ra	5,700 K	AC 220-240 V	50/60 Hz	4 kV
HB2010-100S	100 W	MH 350 W	150 lm/W	15,000 lm					

- PF : > 0.96 (HB2010-60S : > 0.9)
- THD : < 15 % (HB2010-60S : < 20 %)
- IP Rating : IP66
- Material : Polycarbonate, STS
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- External Driver : 100W x 1EA (3 in 1 dimming: 0-10V/PWM/3-Timer-Modes for 60S)
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Military Border

Outdoor Sports Facilities

Building Exterior

Gas Station

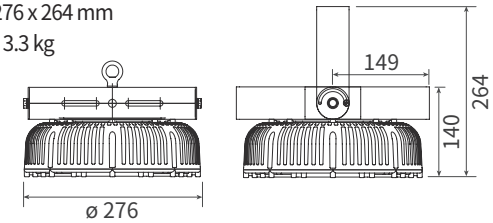
External Driver

130 W / 150 W

HB2210
HB221D

DIMENSION

- Size : ø 276 x 264 mm
- Weight : 3.3 kg



FEATURES

- Convenient maintenance with external driver
- Clamping Technology applied LED flood light
- High luminous efficacy (150 lm/W)
- LED replacement for MH 400~500 W with 70% electricity saving
- Various cover options and mounting options are available
- Various beam angle are available with cover lens
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency	Surge withstand capability
HB2210-130S	130 W	MH 400 W	150 lm/W	19,500 lm	80 Ra	5,700 K	AC 220-240 V	50/60 Hz	4 kV
HB2210-150S	150 W	MH 500 W	150 lm/W	22,500 lm					
⚠ HB221D-130S	130 W	MH 400 W	150 lm/W	19,500 lm	80 Ra	5,700 K	AC 100-240 V	50/60 Hz	6kV(L-N) 10kV(Line-FG)
⚠ HB221D-150S	150 W	MH 500 W	150 lm/W	22,500 lm					

- PF : > 0.96
- THD : < 15 % (HB221D : < 10 %)
- IP Rating : IP66
- Material : Polycarbonate, STS
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- External Driver : 150W x 1EA (3 in 1 dimming: 0-10V/PWM/3-Timer-Modes for D-150S)
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Outdoor Parking Lot

Outdoor Sports Facilities

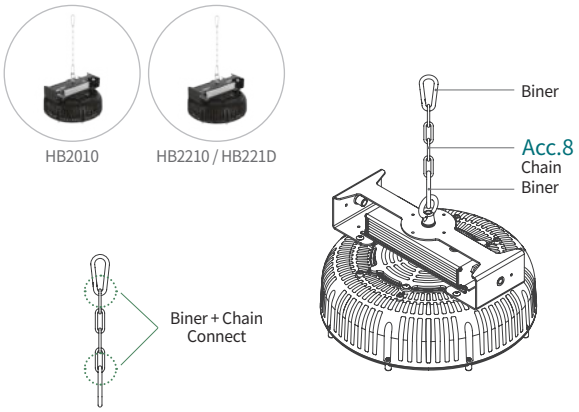
Building Exterior

Gas Station

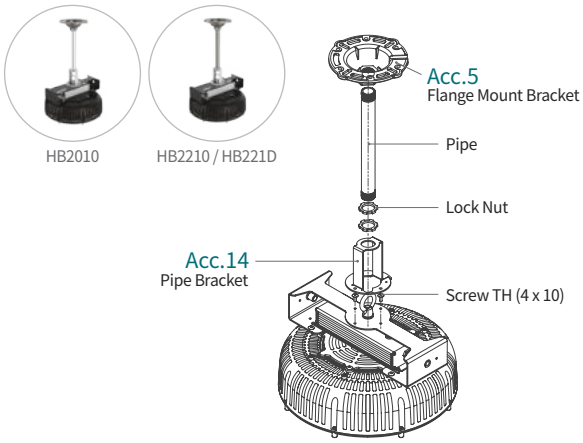
INSTALLATION TYPE

* Illustrated by HB221D

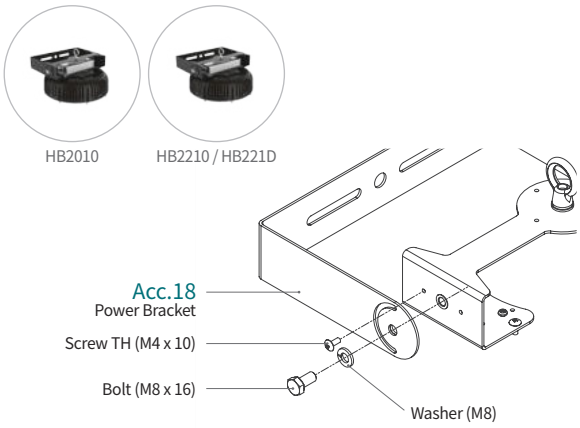
① Chain



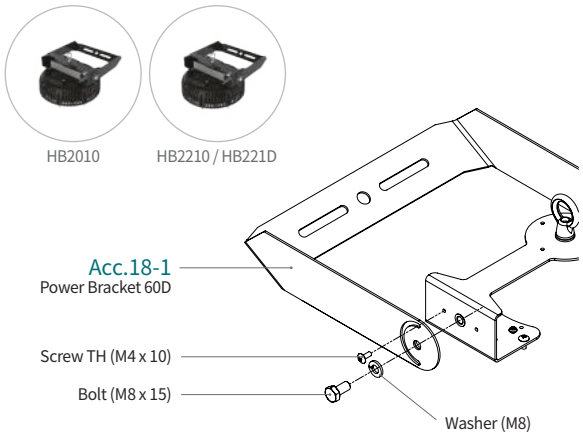
② FMB Pipe Bracket



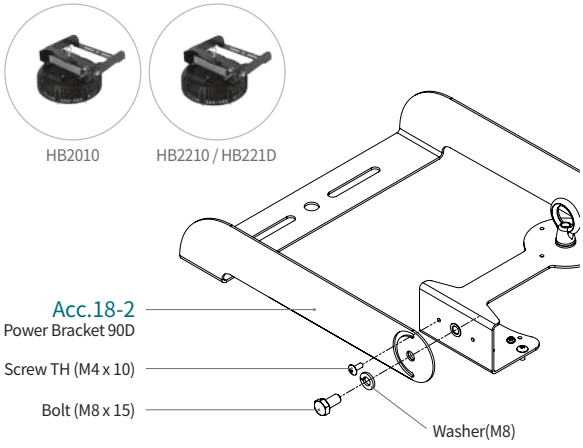
③ Power Bracket



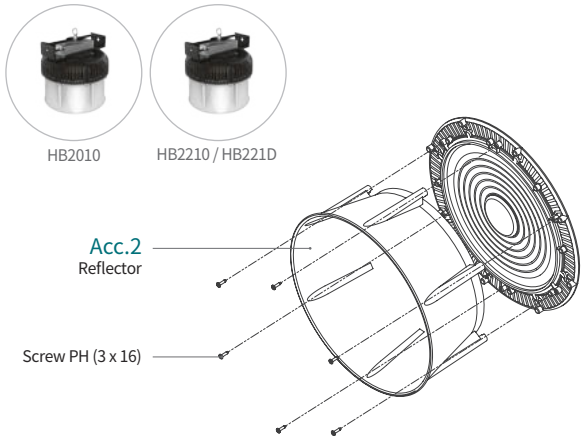
④ Power Bracket 60D



⑤ Power Bracket 90D



Acc.2 Reflector



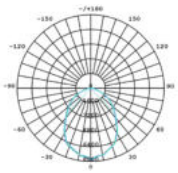
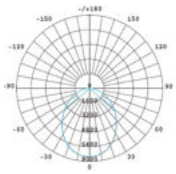
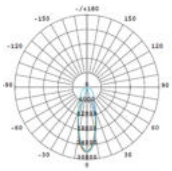
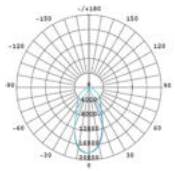
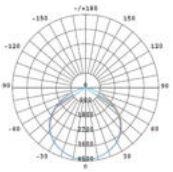
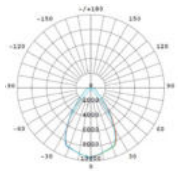
Dimming Option

+ Dimmer Sensor Gateway

- 0-10V/PWM/3-Timer-Modes
- Motion/daylight sensor
- Wireless/wired control applicable

If it's not compatilbe dimming (0-10V, PWM, 3-timer-modes), interface controller is required.
e.g.) If it's connected with DALI/DMX, additional switching module (DALI-PWM converter) is needed.

Beam Angle * Illustrated by HB2010

Standard Clear	Diffuser Cover	Cover Lens			Reflector
					
80°	97°	35°	50°	110°	65°

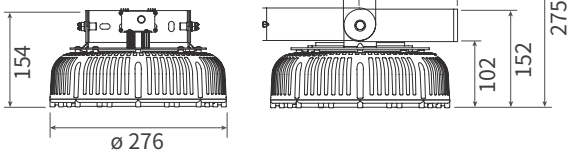
External Driver

200 W

HB2510

DIMENSION

- Size : ø 276 x 275 mm
- Weight : 4 kg



FEATURES

- Convenient maintenance with external driver
- Clamping Technology applied LED flood light
- Through a double-array ICEPIPE, expanded heat dissipation space even having less volume
- High luminous efficacy (140 lm/W)
- LED replacement for MH 600 W with 70% electricity saving
- 360 degree installation without restriction.
- Various beam angle are available with cover lens
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
HB2510-200S	200 W	MH 600 W	140 lm/W	28,000 lm	80 Ra	5,700 K	AC 100-240 V	50/60 Hz

- PF : > 0.96
- THD : < 10 %
- Surge withstand capability : 6kV(L-N), 10kV(Line-FG)
- IP Rating : IP66
- Material : Polycarbonate, STS
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- External Driver : 200W x 1EA (3 in 1 dimming: 0-10V/PWM/3-Timer-Modes)
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)
  *LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Military Border

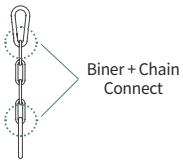
Outdoor Sports Facilities

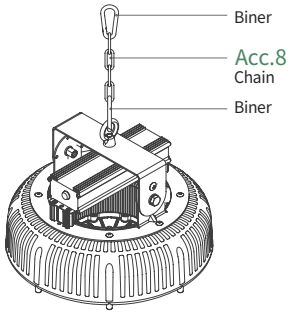
Building Exterior

Gas Station

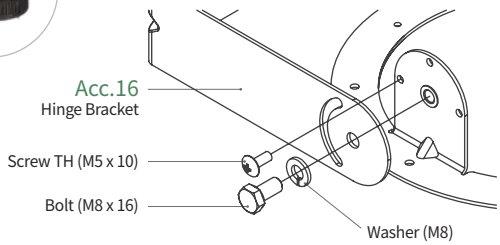
INSTALLATION TYPE

① Chain

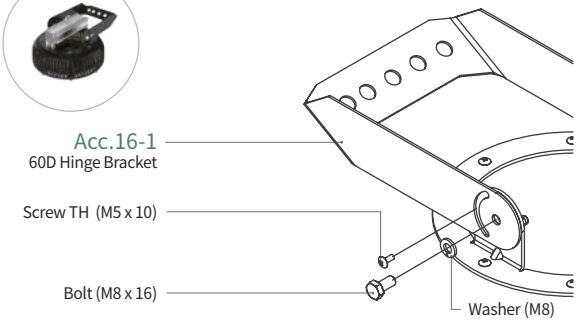




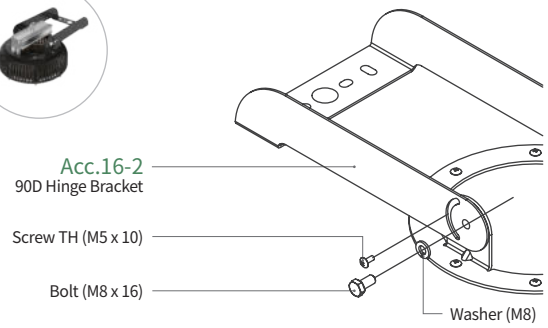
② Hinge Bracket



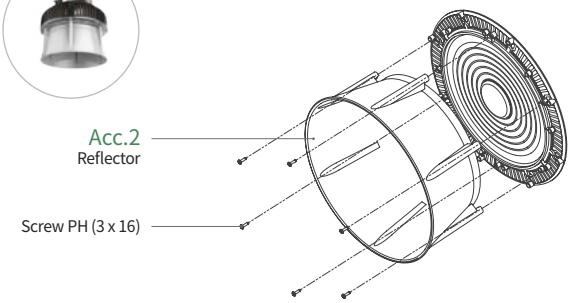
③ 60D Hinge Bracket



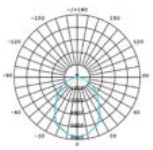
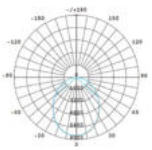
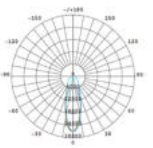
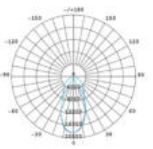
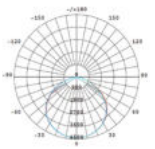
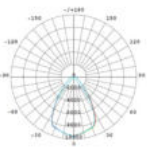
④ 90D Hinge Bracket



Acc.2 Reflector



Beam Angle

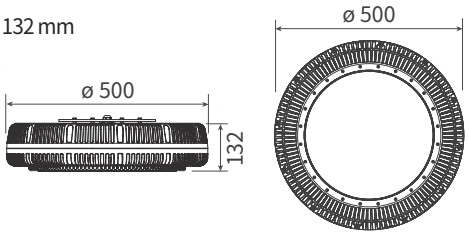
Standard Clear	Diffuser Cover	Cover Lens			Reflector
					
80°	97°	35°	50°	110°	65°

300 W / 400 W

CD4000

Dimension

- Size : ø 500 x 132 mm
- Weight : 8 kg



FEATURES

- LED replacement for 600W~1kW MH
- IP67 available for outdoor waterproof usage
- Compact & versatile design with 360° installation angle
- Rounded light distribution ensures excellent uniformity
- Flicker-free for eye comfort
- Superb heat dissipation through ICEPIPE FDP Technology
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
CD4000-300W	300 W	MH 600 W	120 lm/W	36,000 lm	82 Ra	5,700 K	AC 200-277 V	50/60 Hz
CD4000-400W	400 W	MH 1 kW	120 lm/W	48,000 lm				

- PF : > 0.96
- THD : < 15 %
- Surge withstand capability : 4 kV
- IP Rating : IP67
- Material : Polycarbonate, STS, Tempered Glass
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

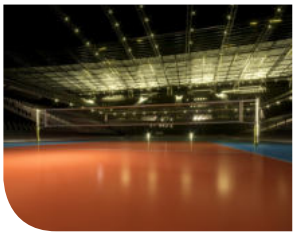
*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Outdoor Sports Facilities

Golf Course

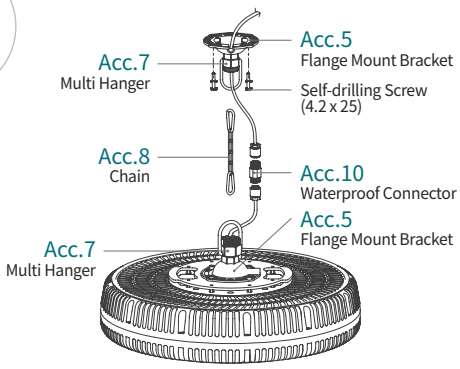
Outdoor Parking Lot



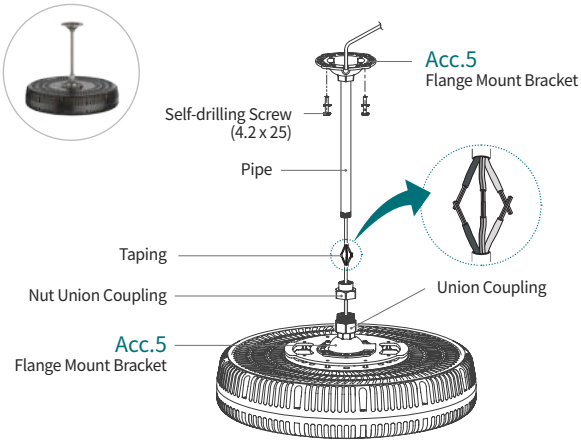
Gymnasium

INSTALLATION TYPE

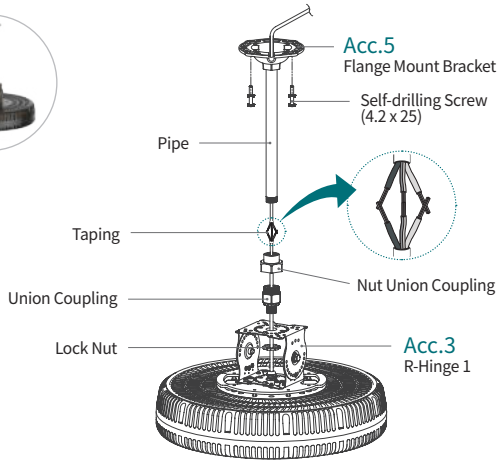
① Chain



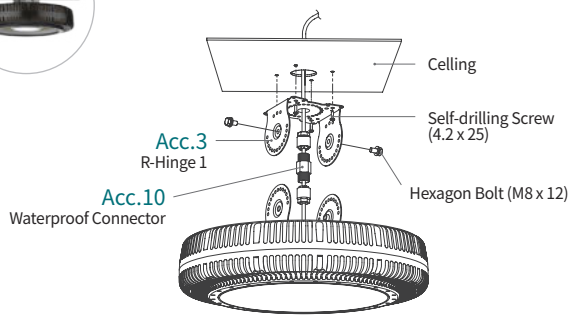
② Pipe



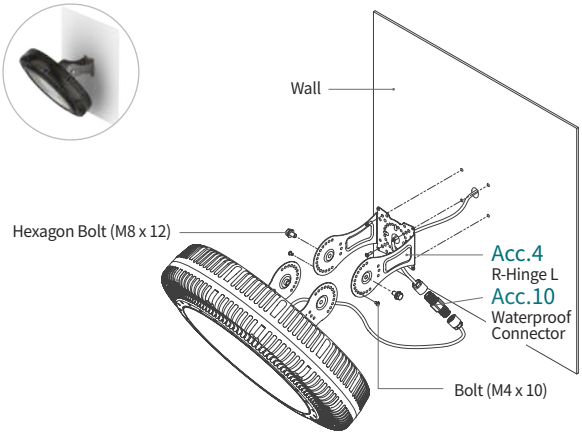
③ R-Hinge 1 + Pipe



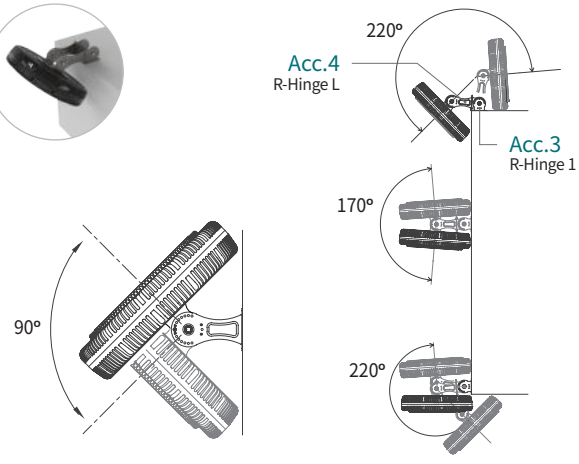
④ R-Hinge 1



⑤ R-Hinge L

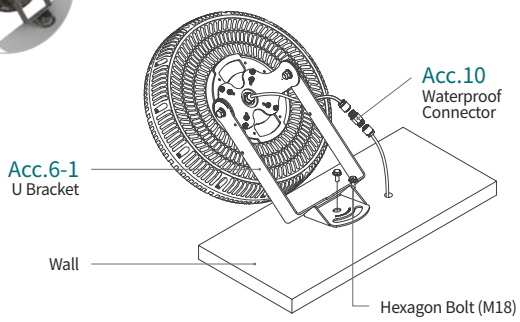


⑥ R-Hinge 1 + R-Hinge L

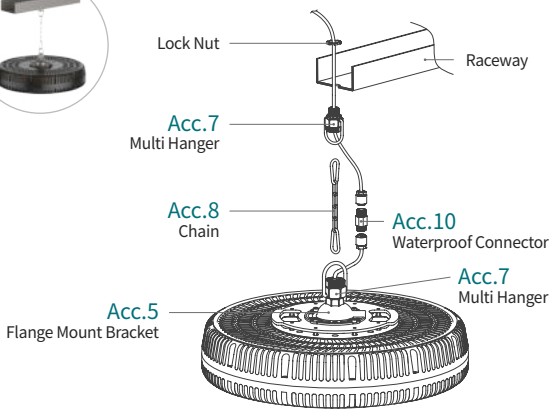


CD4000

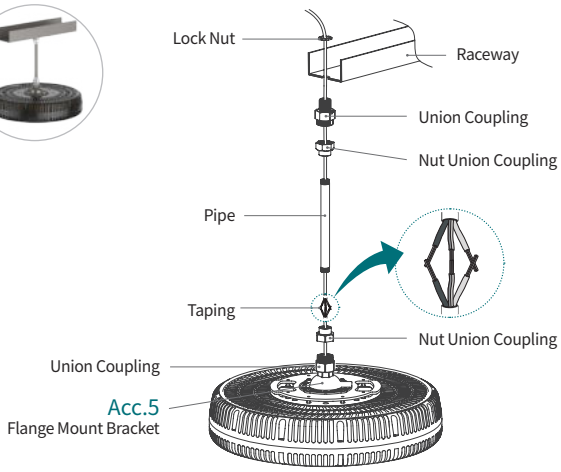
⑦ U Bracket



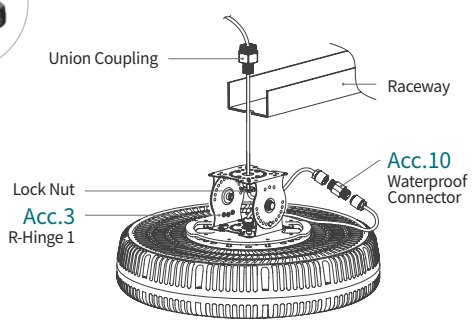
⑧ Chain + Raceway



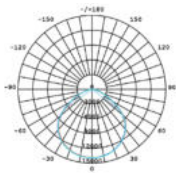
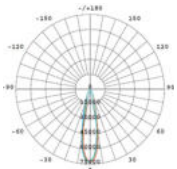
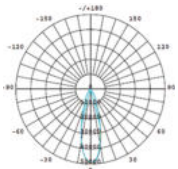
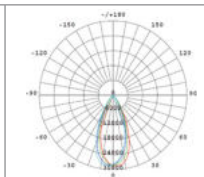
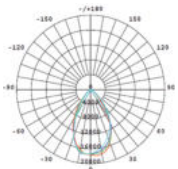
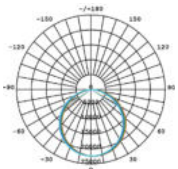
⑨ Pipe + Raceway



⑩ R-Hinge 1 + Raceway



Beam Angle

Standard Clear	Lens				Diffuser Glass 2
					
100°	20°	30°	45°	60°	110°

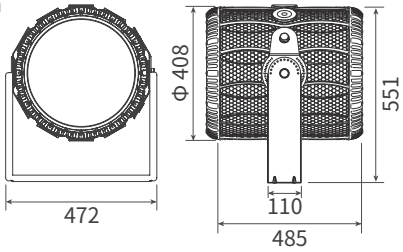
CD4000

600 W / 700 W

CT8000

DIMENSION

- Size : ø 408 x 485 mm
- Weight : 20 kg



FEATURES

- Driver embedded High output LED Floodlight
- IP67 rated for outdoor waterproof usage
- Electricity saving up to 60% than conventional lighting
- Various lens options to achieve the optimal illumination
- Compact & smooth design with 360° installation angle
- Superb heat dissipation through ICEPIPE FDP Technology
- Corrosion-resistant, durable polycarbonate covers
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
CT8000-600W	600 W	MH 1-1.2 kW	115 lm/W	69,000 lm	75 Ra	5,700 K	AC 200-277 V	50/60 Hz
CT8000-700W	700 W	MH 1-1.5 kW	115 lm/W	80,500 lm				

- PF : > 0.96
- THD : < 15 %
- Surge withstand capability : 4 kV
- IP Rating : IP67
- Material : Polycarbonate
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

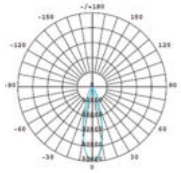
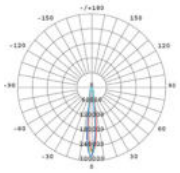
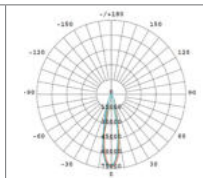
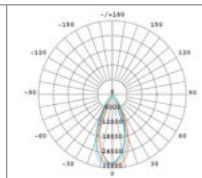
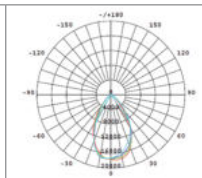
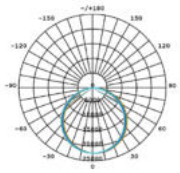
Golf Course

Outdoor Sports Facilities

Port

Building Exterior

Beam Angle

Standard Lens	Lens				Diffuser Plate 2
					
30°	15°	20°	45°	60°	120°

External Driver

130 W / 150 W

NTB

Option Sun visor

External Driver

300 W

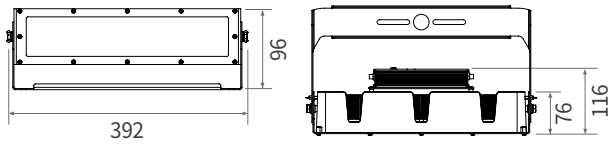
NTB

Option Sun visor

DIMENSION

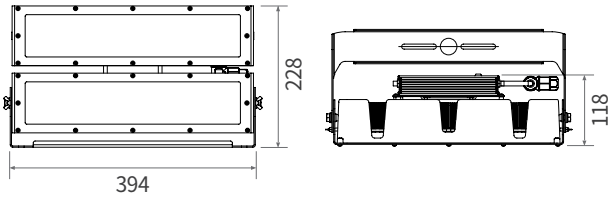
130 W / 150 W

- Size : 392 x 96 x 116 mm
- Weight : 3.7 kg (Converter, Bracket incl.)



300 W

- Size : 394 x 228 x 118 mm
- Weight : 7 kg (Converter, Bracket incl.)



FEATURES

- External driver for safe & easy repair
- Through strong materials, suitable for harsh environment
- Excellent heat dissipation by ICEPIPE FDP technology
- Various lens options provide optimal illumination for the installation site
- IP67 (driver & lamp) for outdoor use
- Eco-friendly & RoHS compliant (UV/Lead/Mercury-free)

APPLICATION

Factory

Building Exterior

Outdoor Parking Lot

Outdoor Sports Facilities

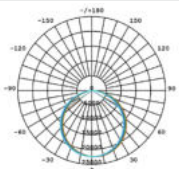
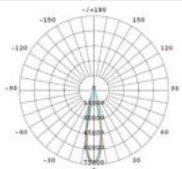
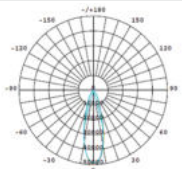
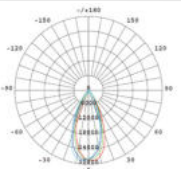
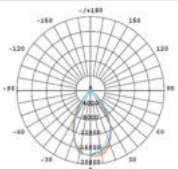
SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
NTB-130	130 W	MH 400 W	145 lm/W	18,850 lm	80 Ra	5,700 K	AC 100-240V	50/60 Hz
NTB-150	150 W	MH 500 W	145 lm/W	21,750 lm				
NTB-130C	130 W	MH 400 W	140 lm/W	18,200 lm	75 Ra			
NTB-150C	150 W	MH 500 W	140 lm/W	21,000 lm				
NTB-300C	300 W	MH 800 W	140 lm/W	42,000 lm				

- PF : > 0.96
- THD : < 15 %
- Surge withstand capability : 6 kV
- IP Rating : IP67
- Material : Aluminum, STS
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- External Driver : 150W x 1EA / 150W x 2EA (3 in 1 dimming: 0-10V/PWM/3-Timer-Modes)
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

BEAM ANGLE

NTB-130	NTB-150	NTB-130C	NTB-150C	NTB-300C	
					
110°		20°	30°	45°	60°

External Driver

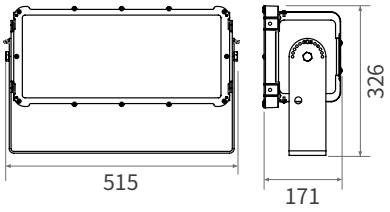
400 W / 450 W

RCT

Option Sun visor

DIMENSION

- Size : 515 x 171 x 326 mm
- Weight : 10.5 kg (Driver not incl.)



FEATURES

- External driver for safe & easy repair
- Replace MH 1~1.2kW
- Excellent heat dissipation by ICEPIPE FDP technology
- Improved durability by metal housing & glass cover
- Various lens options (20°~120°)
- IP67 (driver & lamp) for outdoor use
- Eco-friendly & RoHS compliant (UV/Lead/Mercury-free)

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
RCT-400	400 W	MH 1 kW	145 lm/W	58,000 lm	80 Ra	5,700 K	AC 100-240 V	50/60 Hz
RCT-450	450 W	MH 1.2 kW	145 lm/W	65,250 lm				
RCT-400C	400 W	MH 1 kW	140 lm/W	56,000 lm	75 Ra			
RCT-450C	450 W	MH 1.2 kW	140 lm/W	63,000 lm				

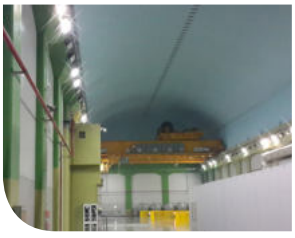
- PF : > 0.9
- THD : < 15 %
- Surge withstand capability : 6 kV
- IP Rating : IP67
- Material : Steel
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- External Driver : 480W x 1EA (3 in 1 dimming: 0-10V/PWM/3-Timer-Modes)
- CCT : Standard - 5700 K / Option - 5000 K, 4000 K, 3000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Outdoor Sports Facilities

Port



Factory

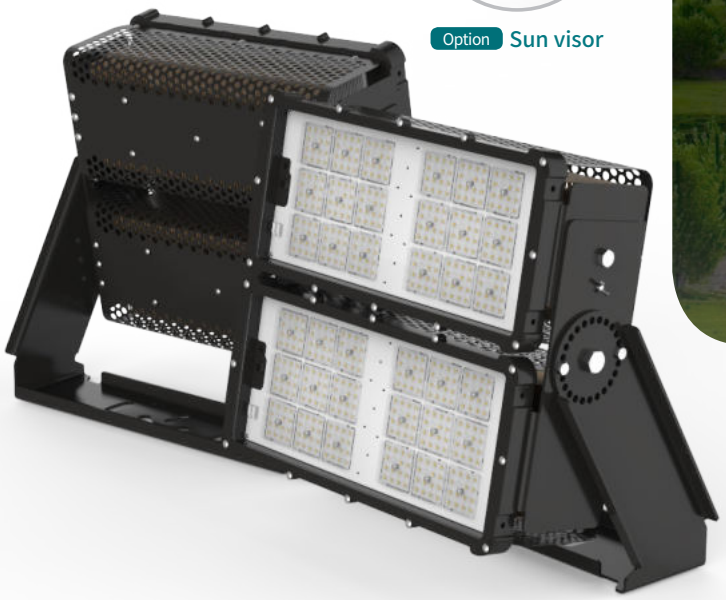
Outdoor Parking Lot

External Driver

800 W / 900 W

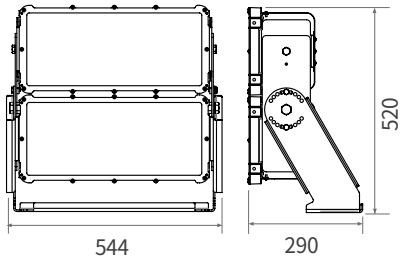
RCT

Option Sun visor



DIMENSION

- Size : 544 x 290 x 520 mm
- Weight : 24 kg (Driver not incl.)



FEATURES

- External driver for safe & easy repair
- Extended irradiation distance by applying narrow angle lens
- Fast ROI (Return On Investment) by replacing MH 2~2.5kW
- Excellent heat dissipation by ICEPIPE FDP technology
- Improved durability by metal housing & glass cover
- Various lens options provide optimal illumination for the installation site
- IP67 (driver & lamp) for outdoor use
- Eco-friendly & RoHS compliant (UV/Lead/Mercury-free)

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
RCT-800A	800 W	MH 2 kW	115 lm/W	92,000 lm	75 Ra	5,700 K	AC 100-240 V	50/60 Hz
RCT-800C	800 W	MH 2 kW	140 lm/W	112,000 lm				
RCT-900C	900 W	MH 2.5 kW	140 lm/W	126,000 lm				

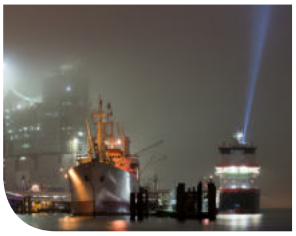
- PF : > 0.9
- THD : < 15 %
- Surge withstand capability : 6 kV
- IP Rating : IP67
- Material : Steel
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- External Driver : 480W x 2EA (3 in 1 dimming: 0-10V/PWM/3-Timer-Modes)
- CCT : Standard - 5700 K / Option - 5000 K, 4000 K, 3000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Golf Course

Stadium



Port

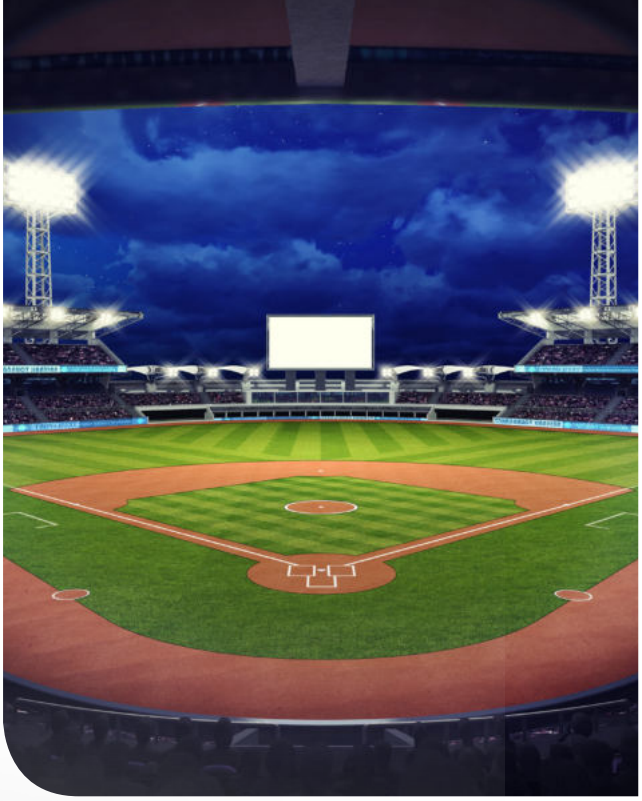
Outdoor Facilities

External Driver

1200 W / 1350 W

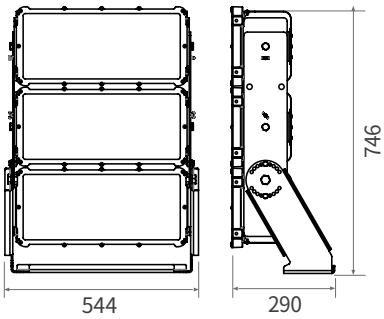
RCT

Option Sun visor



DIMENSION

- Size : 544 x 290 x 746 mm
- Weight : 34 kg (Driver not incl.)



FEATURES

- External driver for safe & easy repair
- Extended irradiation distance by applying narrow angle lens
- Fast ROI (Return On Investment) by replacing MH 3~4kW
- Excellent heat dissipation by ICEPIPE FDP technology
- Improved durability by metal housing & glass cover
- Various lens options provide optimal illumination for the installation site
- IP67 (driver & lamp) for outdoor use
- Eco-friendly & RoHS compliant (UV/Lead/Mercury-free)

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
RCT-1200A	1,200 W	MH 3 kW	115 lm/W	138,000 lm	75 Ra	5,700 K	AC 100-240 V	50/60 Hz
RCT-1200C	1,200 W	MH 3 kW	140 lm/W	168,000 lm				
RCT-1350C	1,350 W	MH 4 kW	140 lm/W	189,000 lm				

- PF : > 0.9
- THD : < 15 %
- Surge withstand capability : 6 kV
- IP Rating : IP67
- Material : Steel
- Heatsink : Copper ICEPIPE Heatsink
- Operating Temperature : -30°C ~ 50°C (-22°F ~ 122°F)
- Installation Angle : 360°
- External Driver : 480W x 3EA (3 in 1 dimming: 0-10V/PWM/3-Timer-Modes)
- CCT : Standard - 5700 K / Option - 5000 K, 4000 K, 3000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Stadium

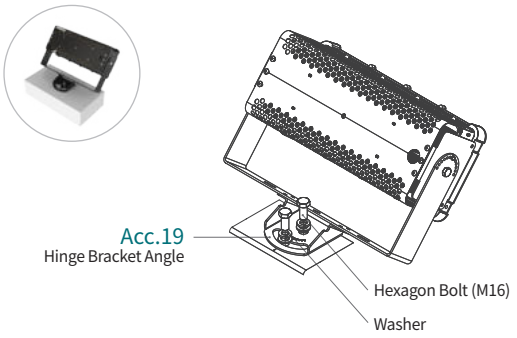
Golf Course

Port

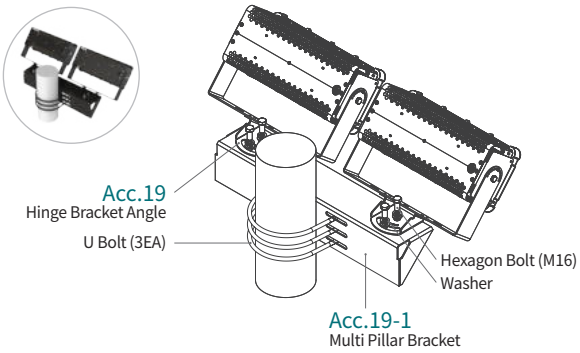
Arena

INSTALLATION TYPE * Applied to RCT-400 / RCT-450 / RCT-400C / RCT-450C

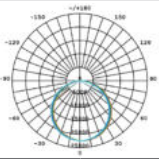
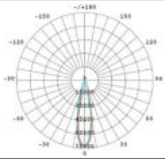
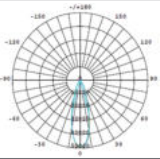
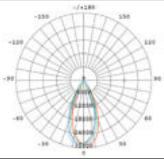
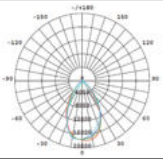
① Hinge Bracket Angle

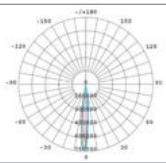
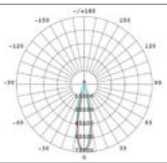
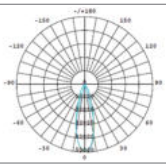
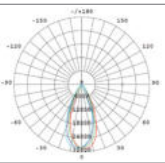
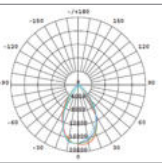


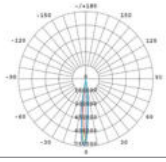
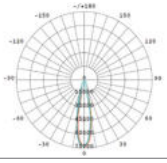
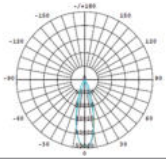
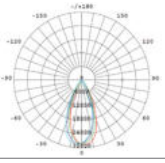
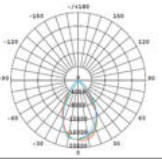
② Multi Pillar Bracket



BEAM ANGLE

RCT-400	RCT-450	RCT-400C		RCT-450C	
					
120°		20°	30°	45°	60°

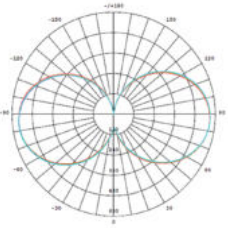
RCT-800A	RCT-800C		RCT-900C	
				
10°	20°	30°	45°	60°

RCT-1200A	RCT-1200C		RCT-1350C	
				
10°	20°	30°	45°	60°

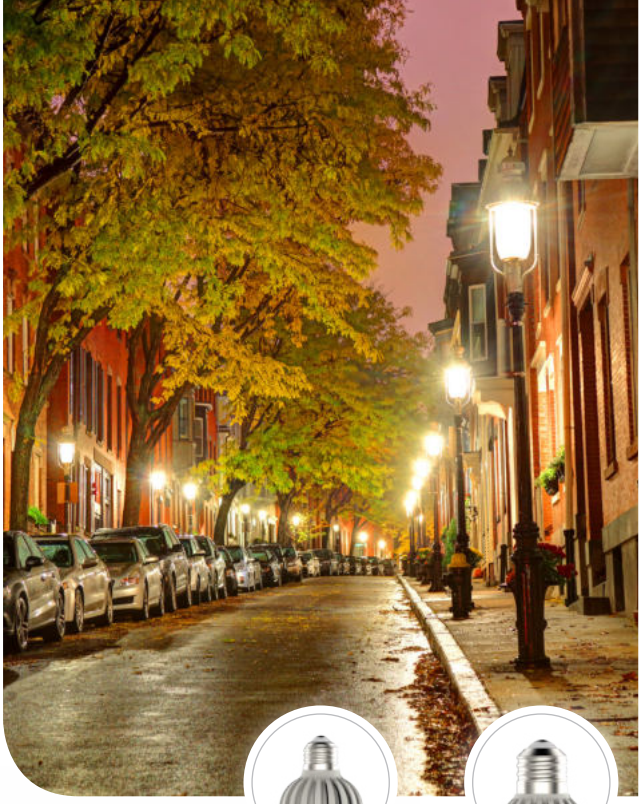
Security Light

30 W / 35 W

OB150N



Beam Angle : 330°



OB150NS : E26/27 Socket **OB150NL** : E39/40 Socket

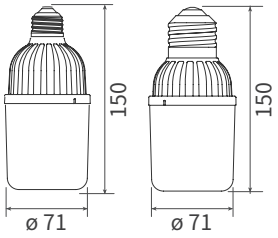
DIMENSION

OB150NS

- Size : ø 71 x 150 mm
- Weight : 205 g

OB150NL

- Size : ø 71 x 150 mm
- Weight : 220 g



FEATURES

- LED replacement for 70~100W Metal Halide lamp
- Ultra-high efficacy of 135 lm/W
- Ideal for outdoor security light
- Super light and compact design for easy installation and safety
- Milky type cover for glare prevention
- Mesh application to prevent the inflow of foreign substances
- Patented Fin Plate Technology improved air-cooling heat dissipation
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
OB150NS-30W	30 W	MH 70-100 W	135 lm/W	4,050 lm	80 Ra	5,700 K	AC 100-240 V	50/60 Hz
OB150NL-30W								
OB150NS-35W	35 W			4,725 lm				
OB150NL-35W								

- PF : > 0.96
- THD : < 15 %
- Material : PA6
- Socket : E26/27 , E39/40
- Operating Temperature : -20°C ~ 50°C (-4°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Park

Walkway

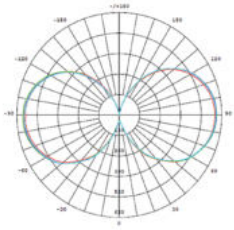
Residential Area

Outdoor Parking Lot

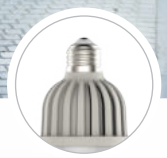
Security Light

30 W / 35 W

OB150Nc



Beam Angle : 330°



OB150NSc : E26/27 Socket **OB150NLc** : E39/40 Socket

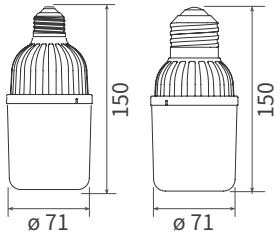
DIMENSION

OB150NSc

- Size : ø 71 x 150 mm
- Weight : 205 g

OB150NLc

- Size : ø 71 x 150 mm
- Weight : 220 g



FEATURES

- LED replacement for 70~100W Metal Halide lamp
- Ultra-high efficacy of 150 lm/W
- Ideal for outdoor security light
- Super light and compact design for easy installation and safety
- Clear type cover enables greater brightness
- Mesh application to prevent the inflow of foreign substances
- Patented Fin Plate Technology improved air-cooling heat dissipation
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
OB150NSc-30W	30 W	MH 70-100 W	150 lm/W	4,500 lm	80 Ra	5,700 K	AC 100-240 V	50/60 Hz
OB150NLc-30W								
OB150NSc-35W	35 W			5,250 lm				
OB150NLc-35W								

- PF : > 0.96
- THD : < 15 %
- Material : PA6
- Socket : E26/27 , E39/40
- Operating Temperature : -20°C ~ 50°C (-4°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Park

Walkway

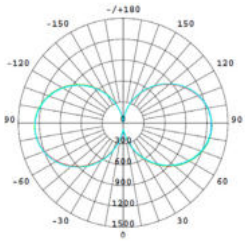
Residential Area

Outdoor Parking Lot

Security Light

40 W / 50 W / 60W / 80 W

OB200



Beam Angle : 330°

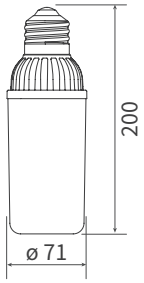
DIMENSION

40 W / 50 W

- Size : ø 71 x 200 mm
- Weight : 300 g

60W / 80 W

- Size : ø 71 x 200 mm
- Weight : 314 g



FEATURES

- Excellent luminous efficacy (145 lm/w) by expanding the light emitting part
- Applicable in various fixtures thanks to its small and slim size
- Optimized for security light
- Super light and compact design for easy installation and safety
- Milky type cover for glare prevention
- Mesh application to prevent the inflow of foreign substances
- Patented Fin Plate Technology improved air-cooling heat dissipation
- Ultraviolet free, no mercury and lead-free RoHS Compliance

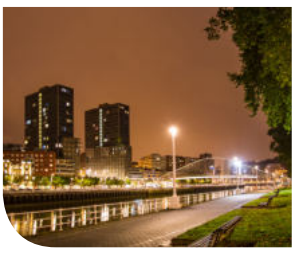
SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
OB200-40W	40 W	MH 100-175 W	145 lm/W	5,800 lm	80 Ra	5,700 K	AC 120-277 V AC 100-240 V	50/60 Hz
OB200-50W	50 W	MH 100-175 W	145 lm/W	7,250 lm				
OB200-60W	60 W	MH 100-175 W	140 lm/W	8,400 lm				
OB200-80W	80 W	MH 175-250 W	145 lm/W	11,600 lm				

- PF : > 0.96
- THD : < 15 %
- Material : PA6
- Socket : E39/40
- Operating Temperature : -20°C ~ 50°C (-4°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION



Park

Walkway

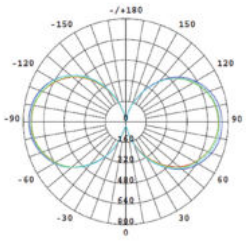
Residential Area

Outdoor Parking Lot

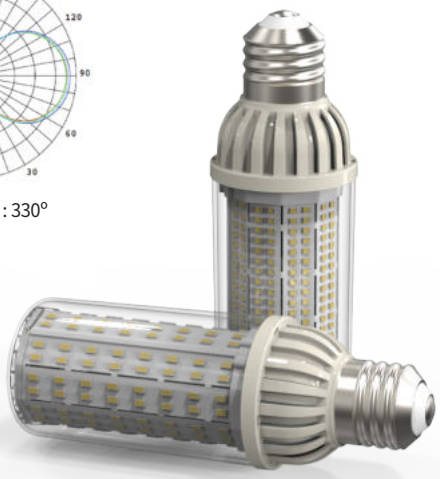
Security Light

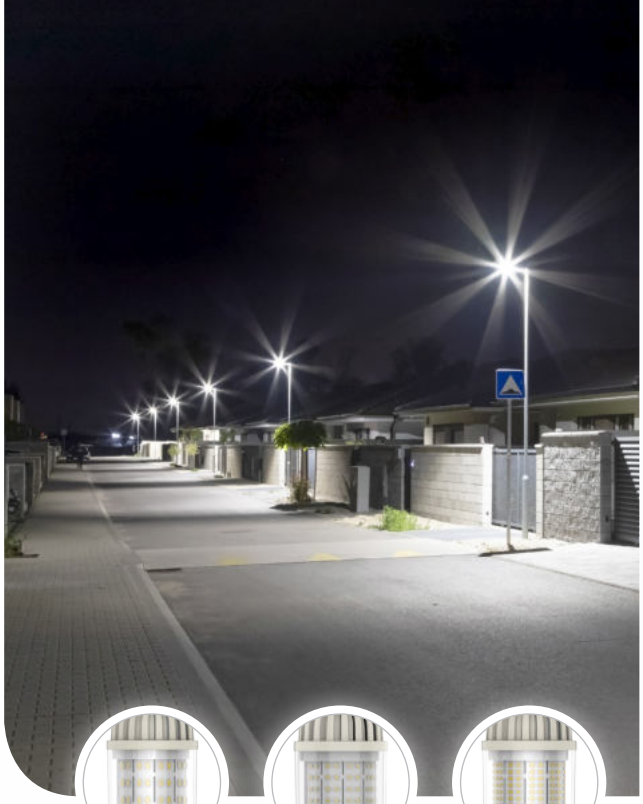
40 W / 50 W / 60W / 80 W

OB200c



Beam Angle : 330°





40 W / 50 W

60 W

80 W

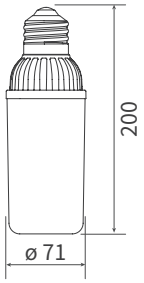
DIMENSION

40 W / 50 W

- Size : ø 71 x 200 mm
- Weight : 300 g

60W / 80 W

- Size : ø 71 x 200 mm
- Weight : 314 g



FEATURES

- Excellent luminous efficacy (150 lm/w) by expanding the light emitting part
- Applicable in various fixtures thanks to its small and slim size
- Optimized for security light
- Super light and compact design for easy installation and safety
- Maximized brightness by clear cover
- Mesh application to prevent the inflow of foreign substances
- Patented Fin Plate Technology improved air-cooling heat dissipation
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
OB200c-40W	40 W	MH 100-175 W	153 lm/W	6,120 lm	80 Ra	5,700 K	AC 120-277 V AC 100-240 V	50/60 Hz
OB200c-50W	50 W	MH 100-175 W	150 lm/W	7,500 lm				
OB200c-60W	60 W	MH 100-175 W	150 lm/W	9,000 lm				
OB200c-80W	80 W	MH 175-250 W	155 lm/W	12,400 lm				

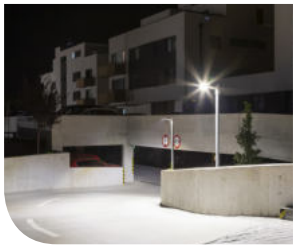
- PF : > 0.96
- THD : < 15 %
- Material : PA6
- Socket : E39/40
- Operating Temperature : -20°C ~ 50°C (-4°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

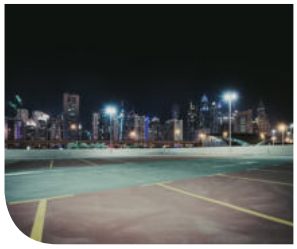
APPLICATION

Park

Walkway



Residential Area

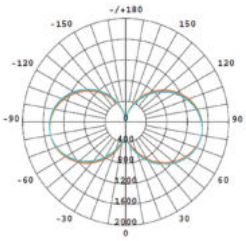


Outdoor Parking Lot

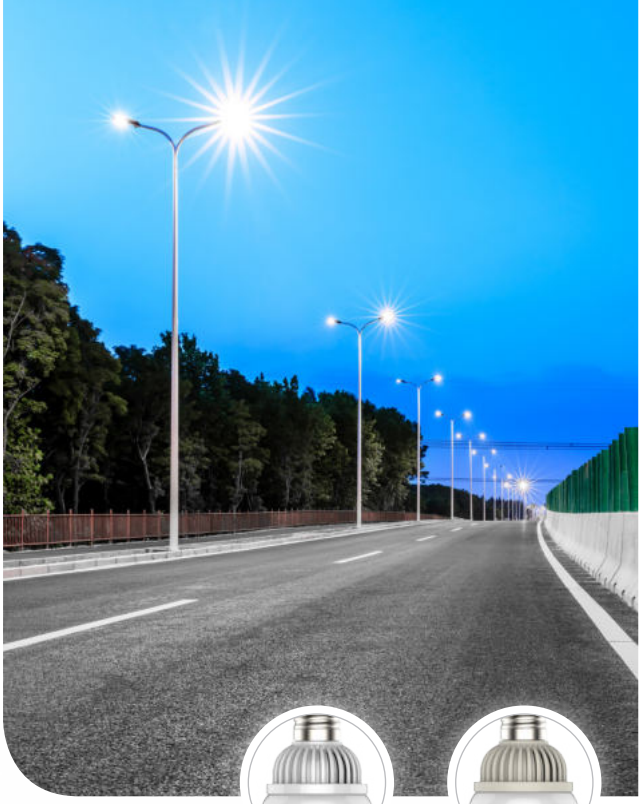
Street Light

100 W / 120 W

OB230



Beam Angle : 330°



100 W : Polycarbonate

120 W : PA6

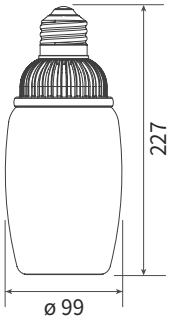
DIMENSION

100 W

- Size : ø 99 x 227 mm
- Weight : 420 g

120 W

- Size : ø 99 x 227 mm
- Weight : 445 g



FEATURES

- Optimized for street light and replaceable conventional light
- LED replacement for 250~400W Metal Halide lamp
- Ultra-high efficacy of 140 lm/W
- Milky type cover for glare prevention
- Mesh application to prevent the inflow of foreign substances
- Optimized heat dissipation with Fan circulation system
- High wattage street light bulb which nobly awarded by Ministry of Trade, Industry and Energy
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
OB230-100W	100 W	MH 250-350 W	135 lm/W	13,500 lm	80Ra	5,700 K	AC 120-277 V	50/60 Hz
OB230-120W	120 W	MH 350-400 W	140 lm/W	16,800 lm				

- PF : > 0.96
- THD : < 15 %
- Material : Polycarbonate
- Socket : E39/40
- Operating Temperature : -20°C ~ 50°C (-4°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

APPLICATION

Street/Road

Bridge

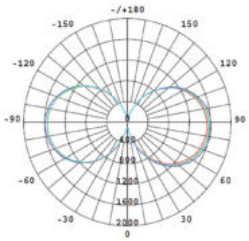
Park

Residential Area

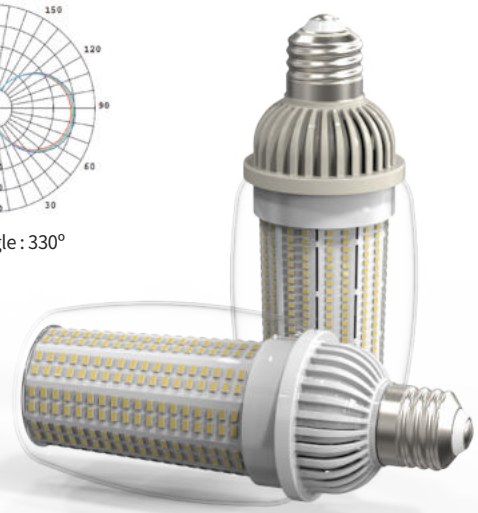
Street Light

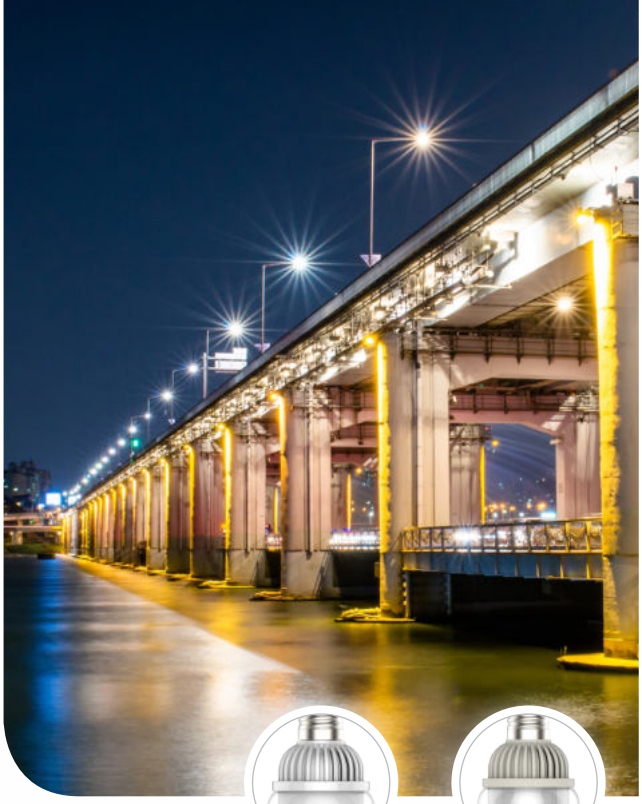
100 W / 120 W

OB230c



Beam Angle : 330°





100 W : Polycarbonate

120 W : PA6

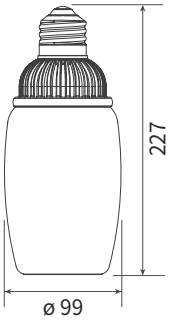
DIMENSION

100 W

- Size : ø 99 x 227 mm
- Weight : 420 g

120 W

- Size : ø 99 x 227 mm
- Weight : 445 g



FEATURES

- Optimized for street light and replaceable conventional light
- LED replacement for 250~400W Metal Halide lamp
- Ultra-high efficacy of 150 lm/W
- Clear type cover enables greater brightness
- Mesh application to prevent the inflow of foreign substances
- Patented Fin Plate Technology improved air-cooling heat dissipation
- Ultraviolet free, no mercury and lead-free RoHS Compliance

SPECIFICATION

Model No.	Wattage	Replacement	Luminous Efficacy	Total Lumen	CRI	CCT	Voltage	Frequency
OB230c-100W	100 W	MH 250-350 W	145 lm/W	14,500 lm	80 Ra	5,700 K	AC 120-277 V	50/60 Hz
OB230c-120W	120 W	MH 350-400 W	150 lm/W	18,000 lm				

- PF : > 0.96
- THD : < 15 %
- Material : Polycarbonate, PA6
- Socket : E39/40
- Operating Temperature : -20°C ~ 50°C (-4°F ~ 122°F)
- Installation Angle : 360°
- CCT : Standard - 5700 K, 3000 K / Option - 5000 K, 4000 K, 2700 K
- LED Package Life time : 50,000 hours (25°C)

*LED package life time according to industry standard (LM80), high operating temperature may shorten life span of LED package and LED lamp.

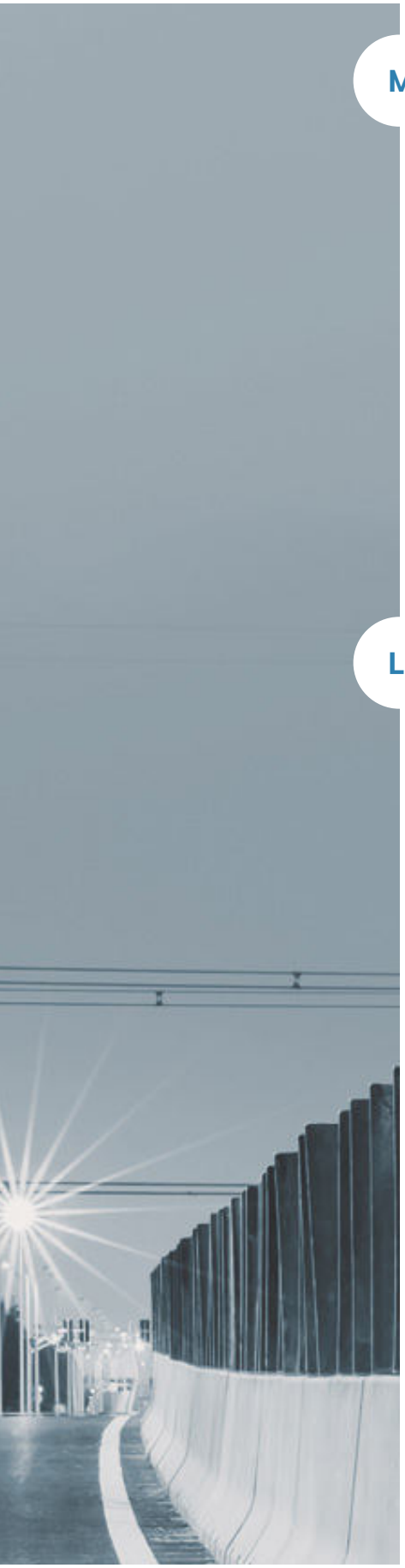
APPLICATION

Street/Road

Bridge

Residential Area

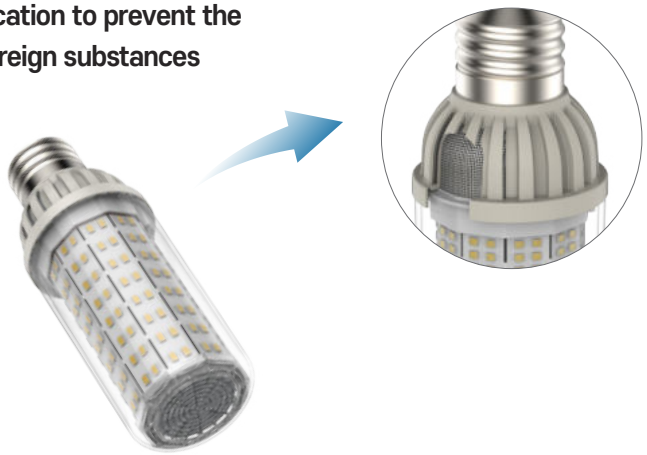
Outdoor Parking Lot



Mesh Structure

*Illustrated by : OB200c

Mesh application to prevent the inflow of foreign substances



LIGHTING FIXTURE

① Recommended

Cutoff streetlight

Fully shieldedtype

Fully shieldedtype

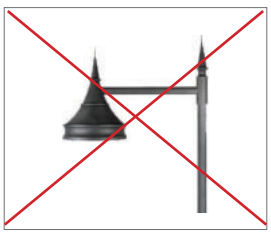
Fully shieldedtype

Downward type

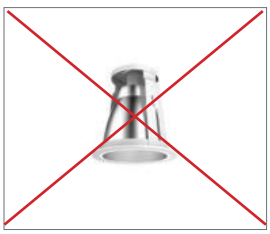
Horizontallight fixture

② Unsuitable

Small fixture



UnshieldedShade



Downlight

ACCESSORIES

Acc.1

Socket Holder 1

Acc.1-1

Socket Holder 2

Acc.2

Reflector

Acc.3

R-Hinge 1

Acc.3-1 SUS

R-Hinge 1

Acc.4 EGI

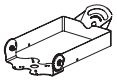
R-Hinge L

Acc.4-1 SUS

R-Hinge L

Acc.5

Flange Mount Bracket

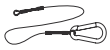
Acc.6-1

U Bracket

Acc.7

Multi Hanger

Acc.8

Chain

Acc.9

Safety Wire

Acc.9-1

Safety Wire - RCT(1m)

Acc.10

(2WAY)
Waterproof Connector

Acc.10-1

(3WAY)
Waterproof Connector

Acc.10-2

(4WAY)
Waterproof Connector

Acc.11 Glass

Clear Plate

Acc.11-1 PC

Diffuser Plate 1

Acc.11-2 Glass

Diffuser Plate 1

Acc.12 Glass

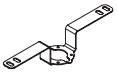
Diffuser Plate 2

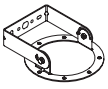
Acc.13

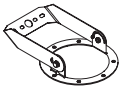
Dome Diffuser 1

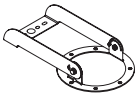
Acc.14

Pipe Bracket

Acc.15

GS Bracket

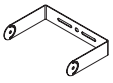
Acc.16

Hinge Bracket

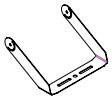
Acc.16-1

Hinge Bracket 60D

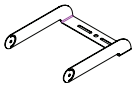
Acc.16-2

Hinge Bracket 90D

Acc.17

Mounting Bracket

Acc.18

Power Bracket

Acc.18-1

Power Bracket 60D

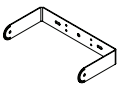
Acc.18-2

Power Bracket 90D

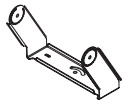
Acc.19

Hinge Bracket Angle

Acc.19-1

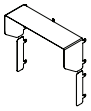
Multi Pillar Bracket

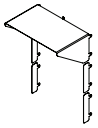
Acc.19-2 SUS

RCT Hinge Bracket 1

Acc.19-3 SUS

RCT Hinge Bracket 2

Acc.20

Sun Visor 1

Acc.20-1

Sun Visor 2

Acc.20-2

Sun Visor 3

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