

The image features a background of abstract geometric shapes. A large blue triangle is positioned on the left side, pointing downwards. A red triangle is located at the bottom left corner, pointing upwards. The remaining space is white. In the upper right quadrant, the brand name 'SONARAY' is written in a bold, blue, sans-serif font. A small red triangle is integrated into the letter 'A'. Below the brand name, the tagline 'Lighting everyone's dreams' is written in a blue, cursive script font.

**SONARAY**<sup>®</sup>  
*Lighting everyone's dreams*



## Our Mission

To create and contribute to a more intelligent and sustainable planet and a better human condition by offering innovative LED lighting solutions.



Service



## ORGANIZATION

SONARAY™ is one of the most progressive LED lighting brands in a field that demands stringent quality and technical expertise. Our combination of experienced engineering, innovative thinking, and the best in raw materials allow us to produce exceptional quality industrial and commercial luminaires.

We are inspired not only to produce quality products but to improve the human condition – at work and in society. Our commitment to a cleaner and greener world is evident in our development and manufacturing facilities in both China and the United States. We collaborate as a global company, seeking to draw upon the best minds in LED technology and product development worldwide. Our goal is to produce lighting that is energy efficient and long lasting with the ultimate mission of leaving an indelible footprint on the world of tomorrow.



Development & Manufacturing

# CONTENTS

Our Mission	001
Organization	003

## LED LIGHT BAR MATRIX

008



MATRIX  
Mounted driver version Page 014

MATRIX  
External driver version Page 016

## LED HIGH BAY VARIO ICE BREAKER DELTA

022  
036  
042



VARIO Page 028

VARIO Page 030

VARIO Page 032

VARIO Page 033



ICE BREAKER  
Page 036



DELTA Page 047

DELTA Page 047

DELTA Page 048

DELTA Page 048

DELTA Page 049

DELTA Page 049



DELTA (With EIS) Page 047

DELTA (With EIS) Page 047

DELTA (With EIS) Page 048

DELTA (With EIS) Page 048

DELTA (With EIS) Page 049

## LED LOW BAY DELTA

052



DELTA Page 055

DELTA Page 055

DELTA Page 056

## LED PETROL STATION LUMINAIRE DELTA

058



DELTA  
Page 058

## LED FLOOD LIGHT DELTA BRIGHTSCAPE

062  
074



DELTA Page 068

DELTA Page 068

DELTA Page 069

DELTA Page 070

DELTA Page 071

DELTA Page 071



DELTA (With EIS) Page 070



BRIGHTSCAPE  
Page 076

# CONTENTS

## LED STREET LIGHT DELTA 78



DELTA  
Page 084



DELTA (With EIS<sup>®</sup>)  
Page 084



DELTA (With EIS<sup>®</sup>)  
Page 084



DELTA (With EIS<sup>®</sup>)  
Page 085



DELTA  
Page 085



DELTA  
Page 086



DELTA  
Page 086



DELTA (With EIS<sup>®</sup>)  
Page 085



DELTA (With EIS<sup>®</sup>)  
Page 086



DELTA (With EIS<sup>®</sup>)  
Page 086

## LED SOLAR LUMINAIRE DELTA 088



DELTA  
Page 090



DELTA  
Page 091



DELTA  
Page 092



DELTA  
Page 093



DELTA  
Page 094



DELTA  
Page 094

## LED PANEL DELTA 096



DELTA  
Page 098



DELTA  
Page 098

## LED TUBE LECKO 100



LECKO  
Page 104

## LED DOWNLIGHT NITOR<sup>2</sup> 106



NITOR<sup>2</sup> 5"  
Page 111



NITOR<sup>2</sup> 6"  
Page 111



NITOR<sup>2</sup> 8"  
Page 112



NITOR<sup>2</sup> 10"  
Page 112

About Us: 115

Global Facilities

(Locations): 116

Marketing Materials 117

# MATRIX LED LIGHT BAR

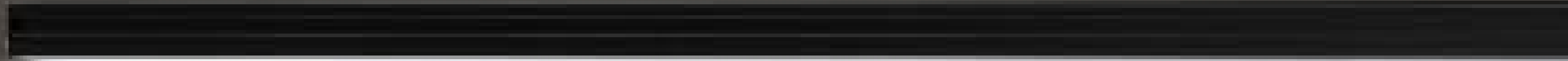


MATRIX LED LIGHT BAR  
Mounted-Driver Version



MATRIX LED LIGHT BAR  
External-Driver Version





## MATRIX LED LIGHT BAR



### Modularity

Cleverly designed to allow for a variety of flexible combinations and installations. Using brackets allows for diverse options and easy installation.



### Excellent Heat Dissipation

Stringently selected materials provide for a steady dissipation of heat throughout the whole system, in turn allowing a longer lifetime for the luminaire.



### Quality Core Components

Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality SMD packages – chipsets that have great quality and long life as backed by an LM-80 report. Quality inside the luminaires that shines on the outside.



### Desirable CRI (Ra)

With a CRI (Ra) of 80, SONARAY's Light Bars bring out the colors you want - wherever and however you decide to install them.



### Energy Saving

The combination of high-efficacy LED components with excellent whole system design has SONARAY LED lighting achieving energy savings of 40% - 80% compared with traditional light sources.



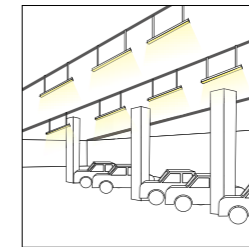
### Attractive Housing

In addition to being a versatile, well functioning luminaire, SONARAY's Light Bar is aesthetically pleasing. Recessed or exposed, single or combined, the Matrix Light Bar looks good and works well. Here, form and function come together.

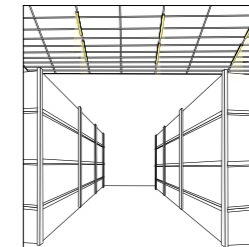


# MATRIX LED LIGHT BAR

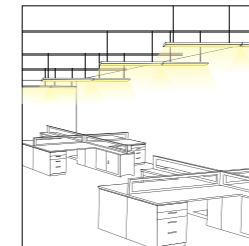
### Applications:



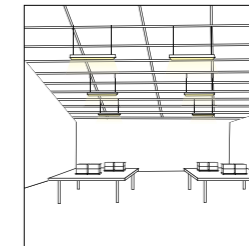
Parking Garages



Warehouses



Offices



Food Production Lines



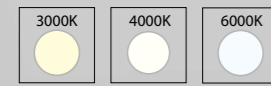


# MATRIX LED LIGHT BAR

## Mounted-Driver Version (Non-dimmable)



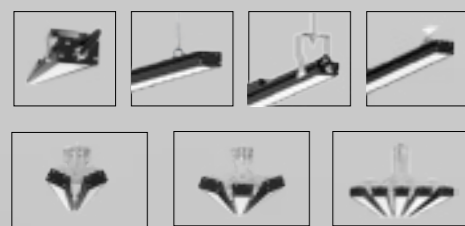
### Color Temperatures



### System Wattages

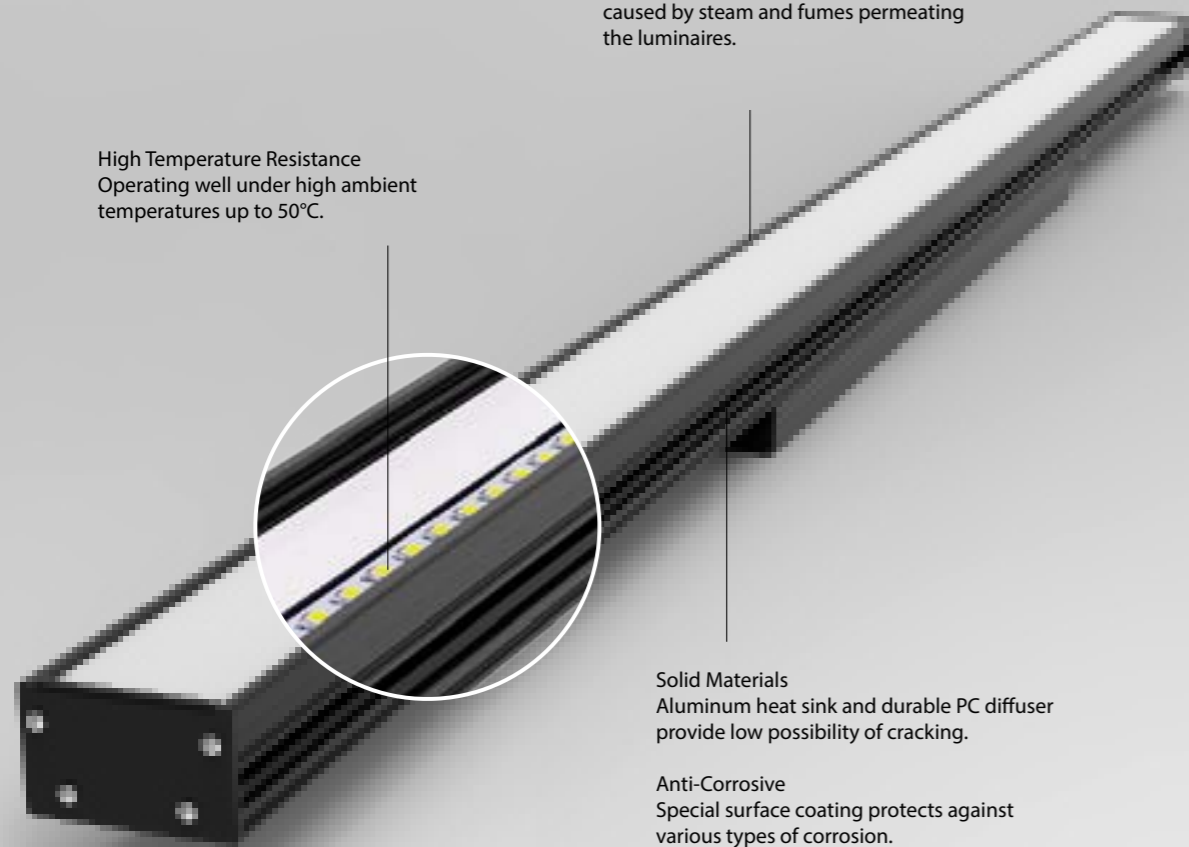


### Brackets:



High Protection Rating  
IP54 design mitigates damage being caused by steam and fumes permeating the luminaires.

High Temperature Resistance  
Operating well under high ambient temperatures up to 50°C.



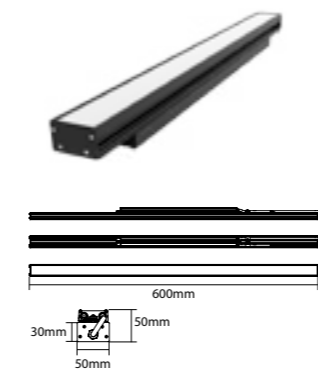
Solid Materials  
Aluminum heat sink and durable PC diffuser provide low possibility of cracking.

Anti-Corrosive  
Special surface coating protects against various types of corrosion.

### MATRIX

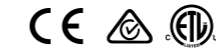
### LED LIGHT BAR (Mounted-Driver Version)

MATRIX  
Light Bar

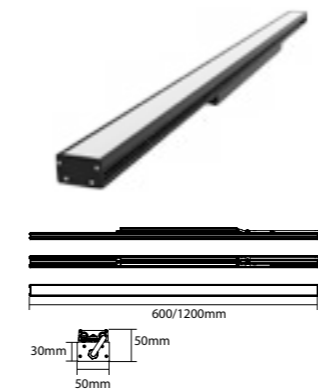
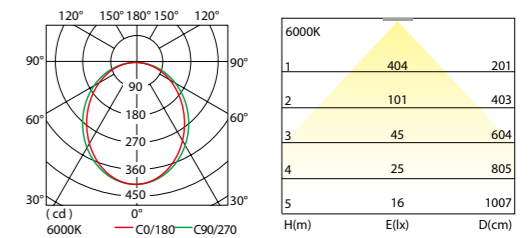


#### LB-1010A

10W 100-277V 1020lm 102lm/W  
6000K Ra≥80



Material: Aluminum  
Driver: Mounted  
Weight: 1.2kg/2.65lb  
Housing Color: Black/White  
Power Factor: ≥ 0.9  
Lifetime: ≥ 40,000hrs

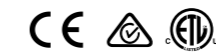
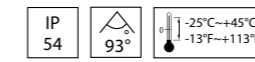


#### LB-1018A (0.6m)

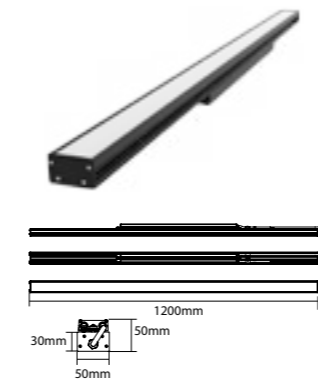
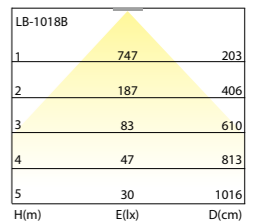
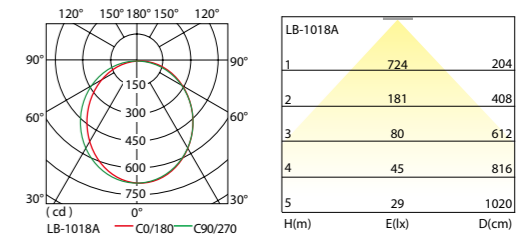
18W 100-277V 1728lm 96lm/W  
6000K Ra≥80 93°

#### LB-1018B (1.2m)

18W 100-277V 1908lm 106lm/W  
6000K Ra≥80

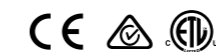


Material: Aluminum  
Driver: Mounted  
Weight: 1.2kg/2.65lb(0.6m)  
2kg/4.41lb(1.2m)  
Housing Color: Black/White  
Power Factor: ≥ 0.9  
Lifetime: ≥ 40,000hrs

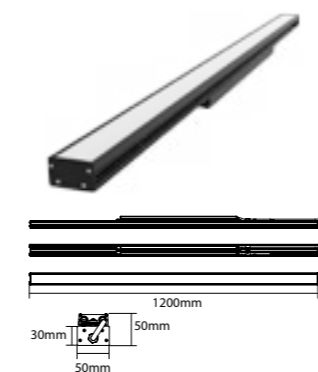
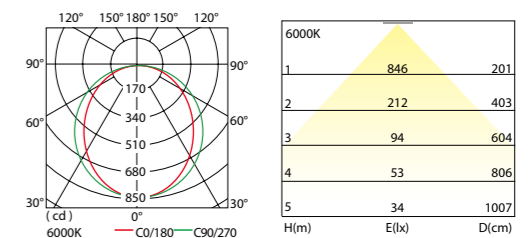


#### LB-1022B

22W 100-277V 2222lm 101lm/W  
6000K Ra≥80



Material: Aluminum  
Driver: Mounted  
Weight: 2kg/4.41lb  
Housing Color: Black/White  
Power Factor: ≥ 0.9  
Lifetime: ≥ 40,000hrs

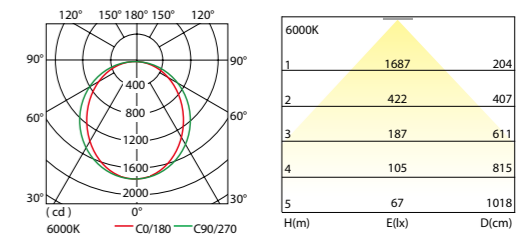


#### LB-1044B

44W 100-277V 4444lm 101lm/W  
6000K Ra≥80



Material: Aluminum  
Driver: Mounted  
Weight: 2kg/4.41lb  
Housing Color: Black/White  
Power Factor: ≥ 0.9  
Lifetime: ≥ 40,000hrs

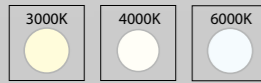


# MATRIX LED LIGHT BAR

## External-Driver Version (Dimmable)



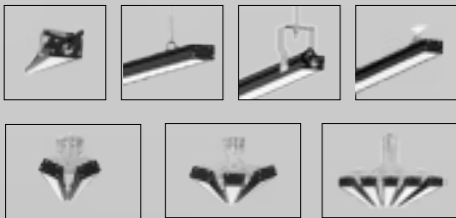
### Color Temperatures



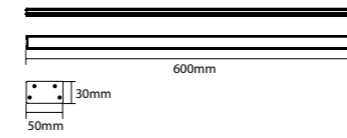
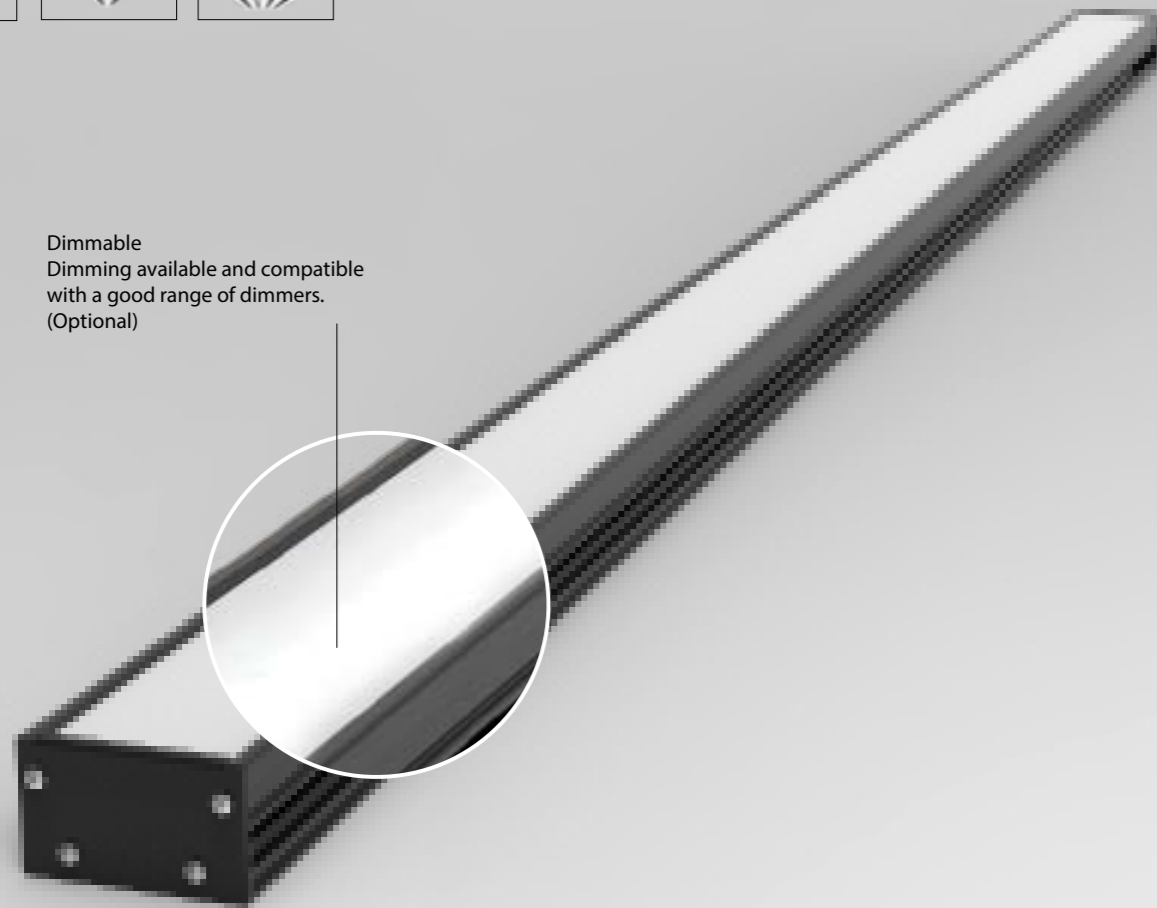
### System Wattages



### Brackets:

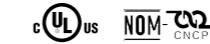
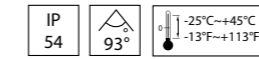


Dimmable  
Dimming available and compatible  
with a good range of dimmers.  
(Optional)



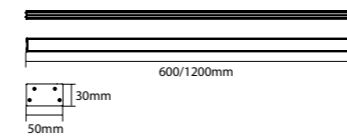
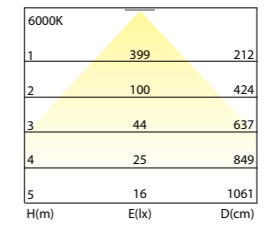
### LB-1010

10W 100-277V 900lm 90lm/W  
6000K Ra≥80



Material: Aluminum  
Driver: External  
Light Engine Weight:  
0.81kg/1.79lb  
Driver Weight: 0.09kg/0.2lb

Housing Color: Black  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



### LB-1018 (0.6m)

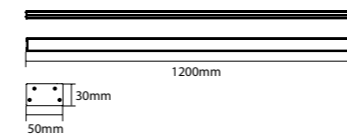
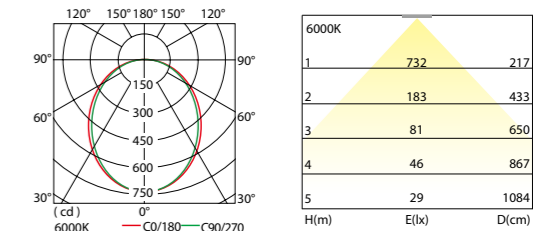
### LB-1018 (1.2m)

18W 100-277V 1728lm 96lm/W  
6000K Ra≥80



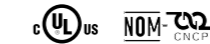
Material: Aluminum  
Driver: External  
Light Engine Weight:  
0.88kg/1.94lb(0.6m)  
1.58kg/3.48(1.2m)  
Driver Weight: 0.22kg/0.49lb

Housing Color: Black  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



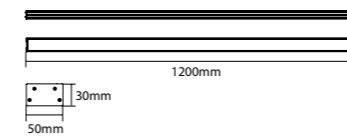
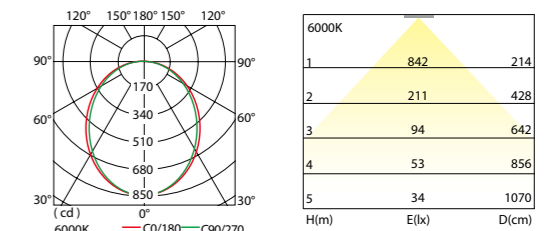
### LB-1022

22W 100-277V 1980lm 90lm/W  
6000K Ra≥80



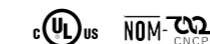
Material: Aluminum  
Driver: External  
Light Engine Weight:  
1.58kg/3.48lb  
Driver Weight: 0.22kg/0.49lb

Housing Color: Black  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



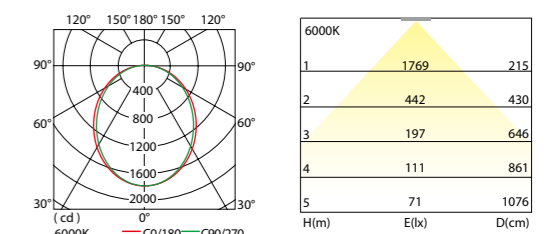
### LB-1044

44W 100-277V 4048lm 92lm/W  
6000K Ra≥80



Material: Aluminum  
Driver: External  
Light Engine Weight:  
1.58kg/3.48lb  
Driver Weight: 0.22kg/0.49lb

Housing Color: Black  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



Installation Guide and Accessories for Single Units

<p><b>Ceiling Mount (I)</b></p>	<p><b>Ceiling Mount (II)</b></p>	<p><b>Pendant</b></p>
<p>Bracket set Order No: LB-1000A-J</p>	<p>Bracket set Order No: LB-1000A-K</p>	<p>O-ring set Order No: LB-1000A-E</p>

<p><b>Pendant with Pole(s)</b></p>	<p>Bracket set Order No: LB-1000A-A</p>
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Installation Guide and Accessories for Multiple Units

<p><b>2 Units</b></p> <p>Bracket set Order No: LB-1000A-B</p>	<p><b>3 Units</b></p> <p>Bracket set Order No: LB-1000A-C</p>	<p><b>5 Units</b></p> <p>Bracket set Order No: LB-1000A-D</p>
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Installation Guide for Multiple Units (Applicable for all 2-, 3-, 5-Unit Assemblies)

DesCRI (Ra)ption for Angle Adjustment of Light Bar

Order Number — LED Light Bar (Mounted-Driver Version)

Model No.	Order No.	Certifications	Dim. (mm)	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Diffuser	Housing Color
LB-1010A	LB-1010A-111	ETL	600 (L)	6000K	80	10W	Mounted	100-277V	N/A	Frosted	Black
	LB-1010A-112	ETL	600 (L)	4000K	80	10W	Mounted	100-277V	N/A	Frosted	Black
	LB-1010A-113	ETL	600 (L)	3000K	80	10W	Mounted	100-277V	N/A	Frosted	Black
	LB-1010A-114	ETL	600 (L)	6000K	80	10W	Mounted	100-277V	N/A	Frosted	White
	LB-1010A-115	ETL	600 (L)	4000K	80	10W	Mounted	100-277V	N/A	Frosted	White
	LB-1010A-116	ETL	600 (L)	3000K	80	10W	Mounted	100-277V	N/A	Frosted	White
	LB-1010A-117	CE/RCM	600 (L)	6000K	80	10W	Mounted	100-277V	N/A	Frosted	Black
	LB-1010A-118	CE/RCM	600 (L)	4000K	80	10W	Mounted	100-277V	N/A	Frosted	Black
	LB-1010A-119	CE/RCM	600 (L)	3000K	80	10W	Mounted	100-277V	N/A	Frosted	Black
	LB-1010A-120	CE/RCM	600 (L)	6000K	80	10W	Mounted	100-277V	N/A	Frosted	White
	LB-1010A-121	CE/RCM	600 (L)	4000K	80	10W	Mounted	100-277V	N/A	Frosted	White
	LB-1010A-122	CE/RCM	600 (L)	3000K	80	10W	Mounted	100-277V	N/A	Frosted	White
LB-1018A	LB-1018A-111	ETL	600 (L)	6000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018A-112	ETL	600 (L)	4000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018A-113	ETL	600 (L)	3000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018A-114	ETL	600 (L)	6000K	80	18W	Mounted	100-277V	N/A	Frosted	White
	LB-1018A-115	ETL	600 (L)	4000K	80	18W	Mounted	100-277V	N/A	Frosted	White
	LB-1018A-116	ETL	600 (L)	3000K	80	18W	Mounted	100-277V	N/A	Frosted	White
	LB-1018A-117	CE/RCM	600 (L)	6000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018A-118	CE/RCM	600 (L)	4000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018A-119	CE/RCM	600 (L)	3000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018A-120	CE/RCM	600 (L)	6000K	80	18W	Mounted	100-277V	N/A	Frosted	White
	LB-1018A-121	CE/RCM	600 (L)	4000K	80	18W	Mounted	100-277V	N/A	Frosted	White
	LB-1018A-122	CE/RCM	600 (L)	3000K	80	18W	Mounted	100-277V	N/A	Frosted	White
LB-1018B	LB-1018B-111	ETL	1200 (L)	6000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018B-112	ETL	1200 (L)	4000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018B-113	ETL	1200 (L)	3000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018B-114	ETL	1200 (L)	6000K	80	18W	Mounted	100-277V	N/A	Frosted	White
	LB-1018B-115	ETL	1200 (L)	4000K	80	18W	Mounted	100-277V	N/A	Frosted	White
	LB-1018B-116	ETL	1200 (L)	3000K	80	18W	Mounted	100-277V	N/A	Frosted	White
	LB-1018B-117	CE/RCM	1200 (L)	6000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018B-118	CE/RCM	1200 (L)	4000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018B-119	CE/RCM	1200 (L)	3000K	80	18W	Mounted	100-277V	N/A	Frosted	Black
	LB-1018B-120	CE/RCM	1200 (L)	6000K	80	18W	Mounted	100-277V	N/A	Frosted	White
	LB-1018B-121	CE/RCM	1200 (L)	4000K	80	18W	Mounted	100-277V	N/A	Frosted	White
	LB-1018B-122	CE/RCM	1200 (L)	3000K	80	18W	Mounted	100-277V	N/A	Frosted	White
LB-1022B	LB-1022B-111	ETL	1200 (L)	6000K	80	22W	Mounted	100-277V	N/A	Frosted	Black
	LB-1022B-112	ETL	1200 (L)	4000K	80	22W	Mounted	100-277V	N/A	Frosted	Black
	LB-1022B-113	ETL	1200 (L)	3000K	80	22W	Mounted	100-277V	N/A	Frosted	Black
	LB-1022B-114	ETL	1200 (L)	6000K	80	22W	Mounted	100-277V	N/A	Frosted	White
	LB-1022B-115	ETL	1200 (L)	4000K	80	22W	Mounted	100-277V	N/A	Frosted	White
	LB-1022B-116	ETL	1200 (L)	3000K	80	22W	Mounted	100-277V	N/A	Frosted	White
	LB-1022B-117	CE/RCM	1200 (L)	6000K	80	22W	Mounted	100-277V	N/A	Frosted	Black
	LB-1022B-118	CE/RCM	1200 (L)	4000K	80	22W	Mounted	100-277V	N/A	Frosted	Black
	LB-1022B-119	CE/RCM	1200 (L)	3000K	80	22W	Mounted	100-277V	N/A	Frosted	Black
	LB-1022B-120	CE/RCM	1200 (L)	6000K	80	22W	Mounted	100-277V	N/A	Frosted	White
	LB-1022B-121	CE/RCM	1200 (L)	4000K	80	22W	Mounted	100-277V	N/A	Frosted	White
	LB-1022B-122	CE/RCM	1200 (L)	3000K	80	22W	Mounted	100-277V	N/A	Frosted	White
LB-1044B	LB-1044B-111	ETL	1200 (L)	6000K	80	44W	Mounted	100-277V	N/A	Frosted	Black
	LB-1044B-112	ETL	1200 (L)	4000K	80	44W	Mounted	100-277V	N/A	Frosted	Black
	LB-1044B-113	ETL	1200 (L)	3000K	80	44W	Mounted	100-277V	N/A	Frosted	Black
	LB-1044B-114	ETL	1200 (L)	6000K	80	44W	Mounted	100-277V	N/A	Frosted	White
	LB-1044B-115	ETL	1200 (L)	4000K	80	44W	Mounted	100-277V	N/A	Frosted	White
	LB-1044B-116	ETL	1200 (L)	3000K	80	44W	Mounted	100-277V	N/A	Frosted	White
	LB-1044B-117	CE/RCM	1200 (L)	6000K	80	44W	Mounted	100-277V	N/A	Frosted	Black
	LB-1044B-118	CE/RCM	1200 (L)	4000K	80	44W	Mounted	100-277V	N/A	Frosted	Black
	LB-1044B-119	CE/RCM	1200 (L)	3000K	80	44W	Mounted	100-277V	N/A	Frosted	Black
	LB-1044B-120	CE/RCM	1200 (L)	6000K	80	44W	Mounted	100-277V	N/A	Frosted	White
	LB-1044B-121	CE/RCM	1200 (L)	4000K	80	44W	Mounted	100-277V	N/A	Frosted	White
	LB-1044B-122	CE/RCM	1200 (L)	3000K	80	44W	Mounted	100-277V	N/A	Frosted	White




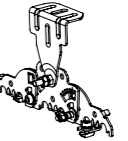

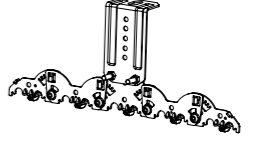

Note: Each order number covers luminaire and driver.

Order Number — LED Light Bar (External-Driver Version)

Model No.	Order No.	Certifications / Listings	Dim. (mm)	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Diffuser	Housing Color
LB-1010	LB-1010-114	UL/NOM	600 (L)	6000K	80	10W	External	100-277V	Yes	Frosted	Black
	LB-1010-115	UL/NOM	600 (L)	4000K	80	10W	External	100-277V	Yes	Frosted	Black
	LB-1010-116	UL/NOM	600 (L)	3000K	80	10W	External	100-277V	Yes	Frosted	Black
LB-1018	LB-1018-117	UL/NOM	600 (L)	6000K	80	18W	External	100-277V	Yes	Frosted	Black
	LB-1018-118	UL/NOM	1200 (L)	6000K	80	18W	External	100-277V	Yes	Frosted	Black
	LB-1018-119	UL/NOM	600 (L)	4000K	80	18W	External	100-277V	Yes	Frosted	Black
	LB-1018-120	UL/NOM	1200 (L)	4000K	80	18W	External	100-277V	Yes	Frosted	Black
	LB-1018-121	UL/NOM	600 (L)	3000K	80	18W	External	100-277V	Yes	Frosted	Black
	LB-1018-122	UL/NOM	1200 (L)	3000K	80	18W	External	100-277V	Yes	Frosted	Black
LB-1022	LB-1022-114	UL/NOM	1200 (L)	6000K	80	22W	External	100-277V	Yes	Frosted	Black
	LB-1022-115	UL/NOM	1200 (L)	4000K	80	22W	External	100-277V	Yes	Frosted	Black
	LB-1022-116	UL/NOM	1200 (L)	3000K	80	22W	External	100-277V	Yes	Frosted	Black
	LB-1044-114	UL/NOM	1200 (L)	6000K	80	44W	External	100-277V	Yes	Frosted	Black
	LB-1044-115	UL/NOM	1200 (L)	4000K	80	44W	External	100-277V	Yes	Frosted	Black
	LB-1044-116	UL/NOM	1200 (L)	3000K	80	44W	External	100-277V	Yes	Frosted	Black

Note: Each order number covers luminaire and driver.

Order Number — Accessories

Accessories for Single Unit	Order No.	Accessories for Multiple Units	Order No.
	LB-1000A-J		LB-1000A-B
	LB-1000A-A		LB-1000A-C
	LB-1000A-K		LB-1000A-D
	LB-1000A-E		

# VARIO LED HIGH BAY



Empire



Bell



Transparent (L)



Transparent (S)



# VARIO LED HIGH BAY



### Optimal Optical Combination

The simply but smartly designed diffuser gives an even distribution of light vertically and horizontally. Being able to choose lampshades allows a choice of beam angle, and an all around gives a rich light.



### Multiple Angles

Depending on the application, a choice of lampshades gives you the option to choose the one to best fit your environment, from the right beam angle to the right aesthetic.

### IP65

### High Durability

A robust, protective design gives this luminaire an IP of 65, and the ability to handle harsh environment.



### Approved By Recognized National

Approved by authorized national laboratories for UL (USA and Canada), CE (Europe) and RCM (Australia).



### Energy Saving

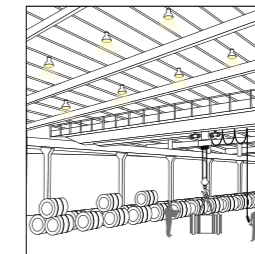
The combination of high-efficacy LED components with excellent whole system design has SONARAY LED lighting achieving energy savings of 40% - 80% compared with traditional lighting sources.



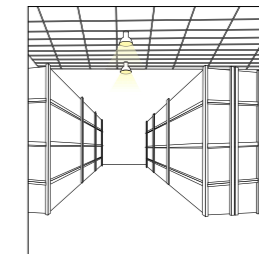
### Quality Core Components

Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality COB packages from CITILED - chipsets that have great quality and long life as backed by LM-80 and TM-21 reports. Quality inside the luminaires that shines on the outside.

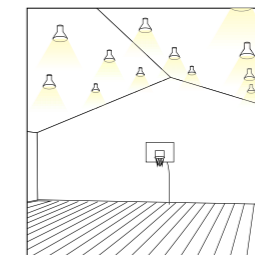
## Applications:



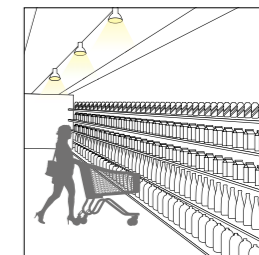
Factories



Warehouses



Gymnasiums



Supermarkets



# VARIO LED HIGH BAY

## System Wattages

45W	65W	85W	100W
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## Color Temperature



## CRI (Ra)

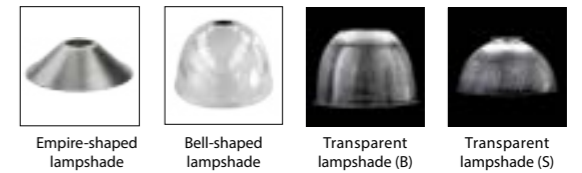
Ra80 True Color	Ra65 Max Bright
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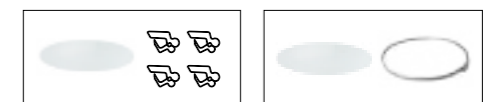
### Modular Light Source

Our modular design of the light source makes replacement just as simple as replacing a conventional light bulb. The design not only serves the purpose of easy maintenance, but also shows our sincere commitment to your productivity by providing you long-lasting, easily upgradable products. In the long run, the modular design enables convenience of upgrading the fixture by only having to replace a specific component - the driver or the light source - not the entire fixture. This ultimately enhances the ease of maintenance as well as saves from dumping another fixture in a landfill that otherwise still works perfectly well.

### Lampshades



### Diffuser (Only for Empire-shaped lampshade)



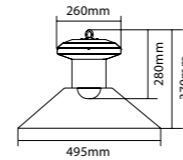
# VARIO LED HIGH BAY

## Empire-Shaped Lampshade



VARIO

LED HIGH BAY



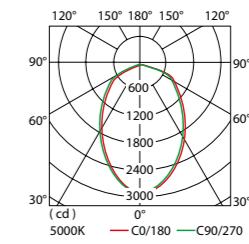
### HB-2045A

45W 100-240/277V 4635lm  
103lm/W 5000K Ra≥65

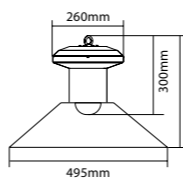


Material: Aluminum  
Driver: Built-in  
Light Engine Weight: 2.7kg / 5.95lb  
Lampshade Weight: 0.6kg / 1.32lb

Light Engine Color: Black  
(Optional: Silver)  
Power Factor: ≥ 0.9  
Lifetime: ≥ 30,000hrs



H(m)	E(lx)	D(cm)
1	2871	138
2	718	275
3	319	413
4	179	551
5	115	689
6	80	827
7	59	965
8	45	1103
9	35	1240
10	29	1378
11	23	1516
12	20	1654
13	17	1792
14	15	1930
15	13	2068



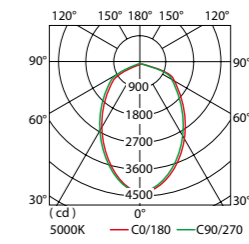
### HB-2065A

65W 100-240/277V 6500lm  
100lm/W 5000K Ra≥65

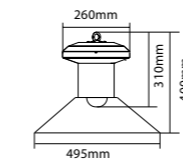


Material: Aluminum  
Driver: Built-in  
Light Engine Weight: 3kg / 6.61lb  
Lampshade Weight: 0.6kg / 1.32lb

Light Engine Color: Black  
(Optional: Silver)  
Power Factor: ≥ 0.9  
Lifetime: ≥ 30,000hrs

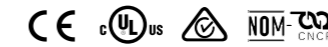


H(m)	E(lx)	D(cm)
1	4101	138
2	1025	276
3	456	414
4	256	552
5	164	690
6	114	828
7	84	966
8	64	1104
9	51	1242
10	41	1380
11	34	1518
12	28	1657
13	24	1795
14	21	1933
15	18	2071



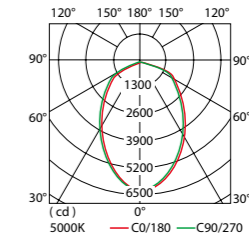
### HB-2085A

85W 100-240/277V 10,625lm  
125lm/W 5000K Ra≥65

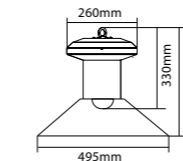


Material: Aluminum  
Driver: Built-in  
Light Engine Weight: 3.8kg / 8.38lb  
Lampshade Weight: 0.6kg / 1.32lb

Light Engine Color: Black  
(Optional: Silver)  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

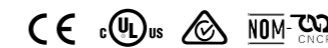


H(m)	E(lx)	D(cm)
1	6331	150
2	1583	301
3	703	452
4	396	602
5	253	753
6	176	903
7	129	1054
8	99	1204
9	78	1355
10	63	1506
11	52	1656
12	44	1807
13	37	1958
14	32	2108
15	28	2259



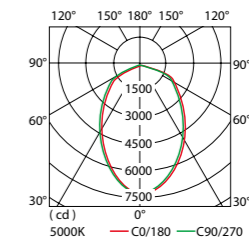
### HB-2100A

100W 100-240/277V 12,000lm  
120lm/W 5000K Ra≥65



Material: Aluminum  
Driver: Built-in  
Light Engine Weight: 4.2kg / 9.26lb  
Lampshade Weight: 0.6kg / 1.32lb

Light Engine Color: Black  
(Optional: Silver)  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



H(m)	E(lx)	D(cm)
1	7461	151
2	1865	302
3	829	454
4	466	605
5	298	757
6	207	908
7	152	1060
8	117	1211
9	92	1362
10	75	1514
11	62	1665
12	52	1816
13	44	1968
14	38	2119
15	33	2271

VARIO  
High Bay



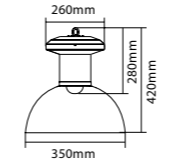


# VARIO LED HIGH BAY Transparent Lampshade



VARIO

LED HIGH BAY



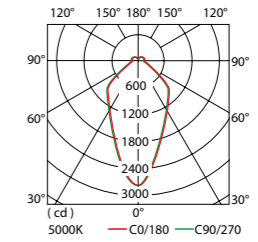
## HB-2045A

45W 100-240/277V 4500lm  
100lm/W 5000K Ra≥65

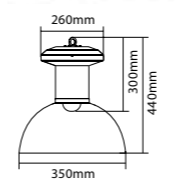


Material: Aluminum  
Driver: Built-in  
Light Engine Weight:  
2.7kg / 5.95lb  
Lampshade Weight:  
0.5kg / 1.1lb

Light Engine Color: Black  
(Optional: Silver)  
Power Factor: ≥ 0.9  
Lifetime: ≥ 30,000hrs



1	2734	98
2	684	196
3	304	295
4	171	394
5	109	492
6	76	590
7	56	689
8	43	787
9	34	886
10	27	985
11	23	1083
12	19	1181
13	16	1279
14	14	1378
15	12	1476
H(m)	E(k)	D(cm)



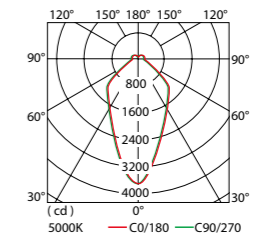
## HB-2065A

65W 100-240/277V 6500lm  
100lm/W 5000K Ra≥65

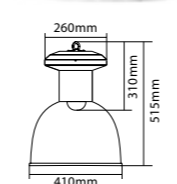


Material: Aluminum  
Driver: Built-in  
Light Engine Weight:  
3kg / 6.61lb  
Lampshade Weight:  
0.5kg / 1.1lb

Light Engine Color: Black  
(Optional: Silver)  
Power Factor: ≥ 0.9  
Lifetime: ≥ 30,000hrs



1	3975	96
2	994	193
3	442	289
4	271	386
5	159	482
6	110	579
7	81	675
8	62	771
9	49	868
10	39	964
11	33	1061
12	28	1157
13	24	1254
14	20	1350
15	18	1447
H(m)	E(k)	D(cm)



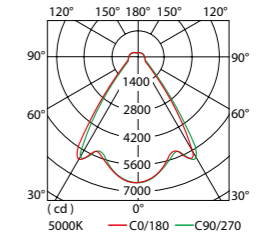
## HB-2085A

85W 100-240/277V 9860lm  
116lm/W 5000K Ra≥65

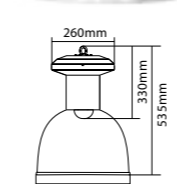


Material: Aluminum  
Driver: Built-in  
Light Engine Weight:  
3.8kg / 8.38lb  
Lampshade Weight:  
0.8kg / 1.76lb

Light Engine Color: Black  
(Optional: Silver)  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



1	6847	145
2	1712	289
3	761	434
4	428	578
5	274	723
6	190	867
7	140	1012
8	107	1156
9	84	1301
10	68	1445
11	56	1590
12	47	1734
13	40	1879
14	35	2023
15	30	2168
H(m)	E(k)	D(cm)



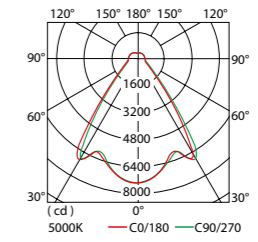
## HB-2100A

100W 100-240/277V 11,200lm  
112lm/W 5000K Ra≥65



Material: Aluminum  
Driver: Built-in  
Light Engine Weight:  
4.2kg / 9.26lb  
Lampshade Weight:  
0.8kg / 1.76lb

Light Engine Color: Black  
(Optional: Silver)  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



1	7579	142
2	1895	283
3	842	425
4	473	566
5	303	708
6	210	850
7	155	991
8	118	1133
9	93	1275
10	76	1416
11	63	1557
12	53	1700
13	45	1841
14	38	1982
15	33	2124
H(m)	E(k)	D(cm)







Order Number — LED High Bay (Light Engine)

Model No.	Order No.	Certifications / Listings	Type	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Height (mm)	Lampshades	Housing Color
HB-2045A	HB-2045A-111	UL	True Color	5000K	80	45W	Built-in	100-240/277V	N/A	280	HB-2000A-A/ HB-2000A-C/ HB-2000A-E	Black
	HB-2045A-112	UL	Max Bright	5000K	65	45W	Built-in	100-240/277V	N/A	280	HB-2000A-A/ HB-2000A-C/ HB-2000A-E	Black
	HB-2045A-113	CE/RCM	True Color	5000K	80	45W	Built-in	100-240/277V	N/A	265	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Black
	HB-2045A-114	CE/RCM	Max Bright	5000K	65	45W	Built-in	100-240/277V	N/A	265	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Black
	HB-2045A-115	UL	True Color	5000K	80	45W	Built-in	100-240/277V	N/A	280	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Silver
	HB-2045A-116	UL	Max Bright	5000K	65	45W	Built-in	100-240/277V	N/A	280	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Silver
	HB-2045A-117	CE/RCM	True Color	5000K	80	45W	Built-in	100-240/277V	N/A	265	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Silver
	HB-2045A-118	CE/RCM	Max Bright	5000K	65	45W	Built-in	100-240/277V	N/A	265	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Silver
HB-2065A	HB-2065A-111	UL	True Color	5000K	80	65W	Built-in	100-240/277V	N/A	300	HB-2000A-A/ HB-2000A-C/ HB-2000A-E	Black
	HB-2065A-112	UL	Max Bright	5000K	65	65W	Built-in	100-240/277V	N/A	300	HB-2000A-A/ HB-2000A-C/ HB-2000A-E	Black
	HB-2065A-113	CE/RCM	True Color	5000K	80	65W	Built-in	100-240/277V	N/A	285	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Black
	HB-2065A-114	CE/RCM	Max Bright	5000K	65	65W	Built-in	100-240/277V	N/A	285	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Black
	HB-2065A-115	UL	True Color	5000K	80	65W	Built-in	100-240/277V	N/A	300	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Silver
	HB-2065A-116	UL	Max Bright	5000K	65	65W	Built-in	100-240/277V	N/A	300	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Silver
	HB-2065A-117	CE/RCM	True Color	5000K	80	65W	Built-in	100-240/277V	N/A	285	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Silver
	HB-2065A-118	CE/RCM	Max Bright	5000K	65	65W	Built-in	100-240/277V	N/A	285	HB-2000A-B/ HB-2000A-D/ HB-2000A-E	Silver
HB-2085A	HB-2085A-112	UL/NOM	True Color	5000K	80	85W	Built-in	100-240/277V	N/A	310	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2085A-113	UL/NOM	Max Bright	5000K	65	85W	Built-in	100-240/277V	N/A	310	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2085A-114	CE/RCM	Energy Saver	5000K	65	85W	Built-in	100-240/277V	N/A	310	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2085A-115	CE/RCM	True Color	5000K	80	85W	Built-in	100-240/277V	N/A	310	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2085A-116	CE/RCM	Max Bright	5000K	65	85W	Built-in	100-240/277V	N/A	310	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2085A-117	UL	True Color	5000K	80	85W	Built-in	100-240/277V	N/A	310	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver
	HB-2085A-118	UL	Max Bright	5000K	65	85W	Built-in	100-240/277V	N/A	310	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver
	HB-2085A-119	CE/RCM	Energy Saver	5000K	65	85W	Built-in	100-240/277V	N/A	310	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver
	HB-2085A-121	CE/RCM	True Color	5000K	80	85W	Built-in	100-240/277V	N/A	310	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver
	HB-2085A-122	CE/RCM	Max Bright	5000K	65	85W	Built-in	100-240/277V	N/A	310	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver

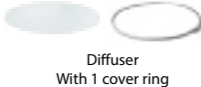
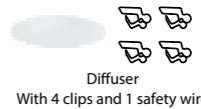
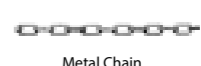

Model No.	Order No.	Certifications / Listings	Type	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Height (mm)	Lampshades	Housing Color
HB-2100A	HB-2100A-113	UL/NOM	True Color	5000K	80	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2100A-114	UL/NOM	Max Bright	5000K	65	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2100A-115	CE/RCM	Energy Saver	5000K	80	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2100A-116	CE/RCM	Energy Saver	5000K	65	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2100A-117	CE/RCM	True Color	5000K	80	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2100A-118	CE/RCM	Max Bright	5000K	65	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Black
	HB-2100A-119	UL	True Color	5000K	80	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver
	HB-2100A-121	UL	Max Bright	5000K	65	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver
	HB-2100A-122	CE/RCM	Energy Saver	5000K	80	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver
	HB-2100A-123	CE/RCM	Energy Saver	5000K	65	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver
	HB-2100A-124	CE/RCM	True Color	5000K	80	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver
	HB-2100A-125	CE/RCM	Max Bright	5000K	65	100W	Built-in	100-240/277V	N/A	330	HB-2000A-A/ HB-2000A-C/ HB-2000A-F	Silver

Note: Each order number covers light engine, driver, and standard accessories, which include: (1)O-ring, (1) lock catch, (1)meter cable, and (1) safety cable.

Order Number — Accessories for VARIO High Bay

Accessories	Order No.	Compatible Models
 Empire lampshade	HB-2000A-A	HB-2045A (UL) / HB-2065A (UL) / HB-2085A (UL&CE) / HB-2100A (UL&CE)
 Bell-shaped lampshade	HB-2000A-B	HB-2045A (CE) / HB-2065A (CE)
 Bell-shaped lampshade	HB-2000A-C	HB-2045A (UL) / HB-2065A (UL) / HB-2085A (UL&CE) / HB-2100A (UL&CE)
 Bell-shaped lampshade	HB-2001A-D	HB-2045A (CE) / HB-2065A (CE)
 Transparent lampshade (big)	HB-2000A-E	HB-2045A (CE) / HB-2065A (CE)
 Transparent lampshade (small)	HB-2000A-F	HB-2085A (UL&CE) / HB-2100A (UL&CE)

Accessories	Order No.	Compatible Models
 Diffuser With 1 cover ring	HB-2000A-G	HB-2000A-A / HB-2000A-B / HB-2000A-V
 Diffuser With 4 clips and 1 safety wire	HB-2001A-X	HB-2000A-A / HB-2000A-B / HB-2000A-V
 Metal Chain	HB-2000A-I	ø 4 mm, Made of iron, chromate finishing, customized length
 Lock Catch	HB-2000A-J	ø 5mm, Made of iron, chromate finishing

# LED HIGH BAY

ICE BREAKER



45W/65W/85W



100W/130W/150W  
/180W/200W



250W





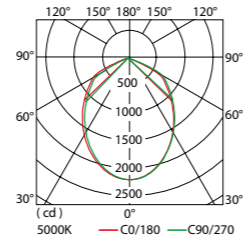
**HB-2045LW**

45W 100-277V 5085lm 113lm/W  
5000K Ra≥70



Material: Aluminum  
Driver: Built-in  
THD: <20%  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

Light Engine Color: Black  
Lampshade Color : Silver  
Light Engine Weight:  
2.5kg / 5.51lb  
Lampshade Weight:  
0.6kg / 1.32lb



H(m)	E(lx)	D(cm)
1	2231	240
2	558	480
3	248	719
4	139	959
5	89	1199
6	62	1439
7	46	1679
8	35	1918
9	28	2158
10	22	2398
11	18	2638
12	15	2878
13	13	3118
14	11	3357
15	9	3597



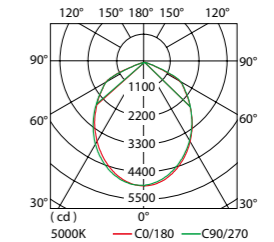
**HB-2100LW**

100W 100-240/277V 11,500lm 115lm/W  
5000K Ra≥70



Material: Aluminum  
Driver: Built-in  
THD: <20%  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

Light Engine Color: Black  
Lampshade Color : Silver  
Light Engine Weight:  
4kg / 8.82lb  
Lampshade Weight:  
0.6kg / 1.32lb



H(m)	E(lx)	D(cm)
1	5147	241
2	1287	482
3	572	723
4	322	963
5	206	1204
6	143	1445
7	105	1686
8	80	1927
9	64	2168
10	51	2409
11	43	2650
12	36	2890
13	30	3131
14	26	3372
15	23	3613



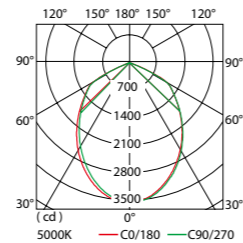
**HB-2065LW**

65W 100-277V 7150lm 110lm/W  
5000K Ra≥70



Material: Aluminum  
Driver: Built-in  
THD: <20%  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

Light Engine Color: Black  
Lampshade Color : Silver  
Light Engine Weight:  
3.4kg / 7.5lb  
Lampshade Weight:  
0.6kg / 1.32lb



H(m)	E(lx)	D(cm)
1	3296	235
2	824	469
3	366	704
4	206	939
5	132	1174
6	92	1408
7	67	1643
8	52	1878
9	41	2112
10	33	2347
11	27	2582
12	23	2817
13	20	3051
14	17	3286
15	15	3521



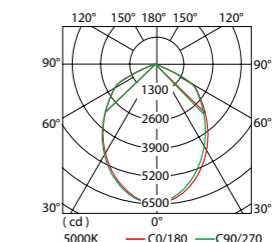
**HB-2130LW**

130W 100-240/277V 14,040lm 108lm/W  
5000K Ra≥70



Material: Aluminum  
Driver: Built-in  
THD: <20%  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

Light Engine Color: Black  
Lampshade Color : Silver  
Light Engine Weight:  
5.2kg / 11.46lb  
Lampshade Weight:  
0.6kg / 1.32lb

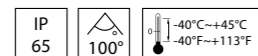


H(m)	E(lx)	D(cm)
1	6348	244
2	1587	489
3	705	733
4	397	977
5	254	1221
6	176	1466
7	130	1710
8	99	1954
9	78	2198
10	63	2443
11	52	2687
12	44	2931
13	38	3176
14	32	3420
15	28	3664



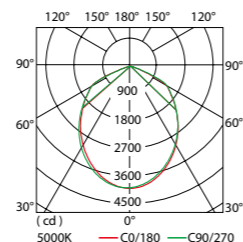
**HB-2085LW**

85W 100-240/277V 9010lm 106lm/W  
5000K Ra≥70 100°



Material: Aluminum  
Driver: Built-in  
THD: <20%  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

Light Engine Color: Black  
Lampshade Color : Silver  
Light Engine Weight:  
3.7kg / 8.16lb  
Lampshade Weight:  
0.6kg / 1.32lb



H(m)	E(lx)	D(cm)
1	4098	235
2	1024	470
3	455	705
4	256	940
5	164	1174
6	114	1409
7	84	1644
8	64	1879
9	51	2114
10	41	2349
11	34	2584
12	28	2819
13	24	3053
14	21	3288
15	18	3523



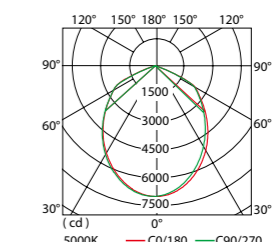
**HB-2150LW**

150W 100-240/277V 15,600lm 104lm/W  
5000K Ra≥70



Material: Aluminum  
Driver: Built-in  
THD: <20%  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

Light Engine Color: Black  
Lampshade Color : Silver  
Light Engine Weight:  
5.2kg / 11.46lb  
Lampshade Weight:  
0.6kg / 1.32lb



H(m)	E(lx)	D(cm)
1	7023	243
2	1756	486
3	780	729
4	439	972
5	281	1215
6	195	1458
7	143	1701
8	110	1944
9	87	2188
10	70	2431
11	58	2674
12	49	2917
13	42	3160
14	36	3403
15	31	3646



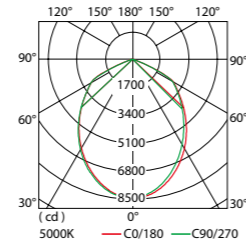
**HB-2180LW**

180W 100-240/277V 18,720lm 104lm/W  
5000K Ra≥70

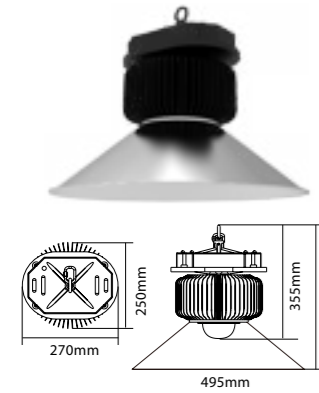


Material: Aluminum  
Driver: Built-in  
THD: <20%  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

Light Engine Color: Black  
Lampshade Color : Silver  
Light Engine Weight:  
6.2kg /13.67lb  
Lampshade Weight:  
0.6kg/ 1.32lb



H(m)	E(lx)	D(cm)
1	8339	240
2	2085	479
3	927	719
4	521	959
5	334	1199
6	232	1438
7	170	1678
8	130	1918
9	103	2158
10	83	2397
11	69	2637
12	58	2877
13	49	3116
14	43	3356
15	37	3596



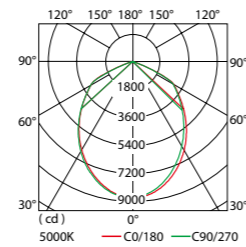
**HB-2200LW**

200W 100-240/277V 20,400lm 102lm/W  
5000K Ra≥70

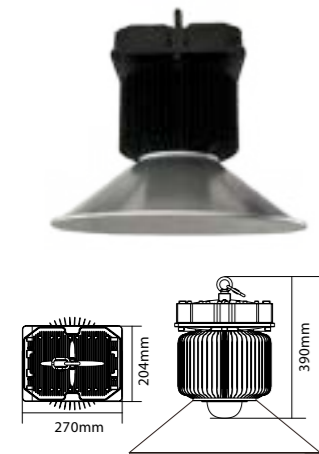


Material: Aluminum  
Driver: Built-in  
THD: <20%  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

Light Engine Color: Black  
Lampshade Color : Silver  
Light Engine Weight:  
6.2kg /13.67lb  
Lampshade Weight:  
0.6kg/ 1.32lb

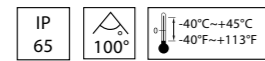


H(m)	E(lx)	D(cm)
1	8784	243
2	2196	487
3	976	730
4	549	973
5	351	1217
6	244	1460
7	179	1703
8	137	1947
9	108	2190
10	88	2433
11	73	2676
12	61	2920
13	52	3163
14	45	3406
15	39	3650



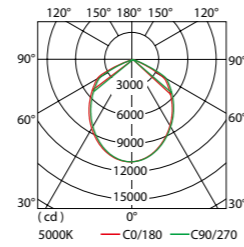
**HB-2250LW**

250W 100-240/277V 25,250lm 101lm/W  
5000K Ra≥70



Material: Aluminum  
Driver: Built-in  
THD: <20%  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

Light Engine Color: Black  
Lampshade Color : Silver  
Light Engine Weight:  
8.4kg /18.52lb  
Lampshade Weight:  
0.6kg/ 1.32lb



H(m)	E(lx)	D(cm)
1	11274	239
2	2818	477
3	1253	716
4	705	955
5	451	1193
6	313	1432
7	230	1671
8	176	1910
9	139	2148
10	113	2387
11	93	2626
12	78	2864
13	67	3103
14	58	3342
15	50	3580

Order Number — LED High Bay: ICE BREAKER

Model No.	Order No.	Certifications	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Lampshade	Housing Color
HB-2045LW	HB-2045LW-111	N/A	5000K	65	45W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
HB-2065LW	HB-2065LW-111	N/A	5000K	65	65W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
HB-2085LW	HB-2085LW-111	N/A	5000K	65	85W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
	HB-2085LW-112	ETL	5000K	70	85W	Built-in	100-240/277V	N/A	HB-2000A-V	Black
	HB-2085LW-113	CE	5000K	70	85W	Built-in	100-240/277V	N/A	HB-2000A-V	Black
HB-2100LW	HB-2100LW-111	N/A	5000K	65	100W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
	HB-2100LW-112	ETL	5000K	70	100W	Built-in	100-240/277V	N/A	HB-2000A-V	Black
	HB-2100LW-113	CE	5000K	70	100W	Built-in	100-240/277V	N/A	HB-2000A-V	Black
HB-2130LW	HB-2130LW-111	ETL	5000K	70	130W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
	HB-2130LW-112	CE	5000K	70	130W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
HB-2150LW	HB-2150LW-111	ETL	5000K	70	150W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
	HB-2150LW-112	CE	5000K	70	150W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
HB-2180LW	HB-2180LW-111	ETL	5000K	70	180W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
	HB-2180LW-112	CE	5000K	70	180W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
HB-2200LW	HB-2200LW-111	ETL	5000K	70	200W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
	HB-2200LW-112	CE	5000K	70	200W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
HB-2250LW	HB-2250LW-111	ETL	5000K	70	250W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black
	HB-2250LW-112	CE	5000K	70	250W	Built-in	100-240/277V	N/A	HB-2000A-V/HB-2000A-W	Black

Note: Each order number covers light engine, driver, and standard accessories, which include: (1) O-ring, (1) lock catch, (1) one meter cable, and (1) safety cable.

Order Number — Accessories for High Bays

Accessories	Order No.	Compatible Models	Accessories	Order No.	Compatible Models
Empire lampshade	HB-2000A-V	HB-2000L, HB-2000LW, HB-2000LT full series	Diffuser With 4 clips and 1 safety wire	HB-2001A-X	HB-2000A-A / HB-2000A-B / HB-2000A-V
Bell-shaped lampshade	HB-2000A-W	HB-2000L, HB-2000LW, HB-2000LT full series	Metal Chain	HB-2000A-I	ø 4 mm, Made of iron, chromate finishing, customized length
Diffuser With 1 cover ring	HB-2000A-G	HB-2000A-A / HB-2000A-B / HB-2000A-V	Lock Catch	HB-2000A-J	ø 5mm, Made of iron, chromate finishing

# DELTA LED HIGH BAY

Standard:



100W



100W



100W



180W



180W



250W

With **EIS<sup>®</sup>** (Easy Interchange System)



100W



100W



100W



150W



250W





## DELTA LED HIGH BAY



Easy Interchange System

EIS not only makes for ease of maintenance, but for enhanced flexibility, as well. Replace the driver at the end of its rated lifetime and give an already long-lasting fixture another lease on life. Keep the luminance, keep the hardware, keep the value.



Corrosion Resistance

By adopting dedicated processing treatments on the heat sink and other components, these luminaires have excellent anti-corrosive and UV-resistance.

IP65

High Durability

A robust, protective design gives this luminaire an IP of 65 and the ability to handle harsh environments.



Optimal Optical Combination

The unique design combination of lens and diffuser used gives good quality and quantity of light, where you need it. With options of beam angles to choose from, these luminaires are ideal for a number of applications.



Quality Core Components

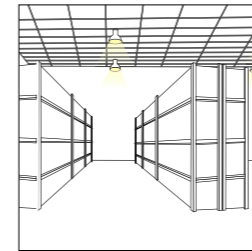
Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality COB packages from CITELED – chipsets that have great quality and long life as backed by LM-80 and TM-21 reports. Quality inside the luminaires that shines on the outside.



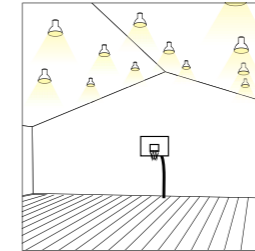
Approved By Recognized National Labs

Approved by recognized national laboratories for UL (USA and Canada), CE (Europe), C-Tick and SAA (Australia).

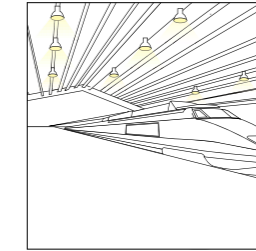
### Applications:



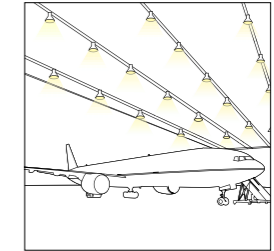
Warehouses



Gymnasiums



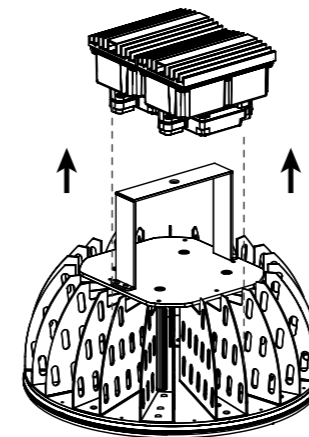
Train Stations



Hangars

### EIS<sup>®</sup> Easy Interchange System

Our patented 'Plug and Use' Removable Power Supply makes maintenance simple and easy. It takes only five minutes or less to replace a driver unit - eliminating the need to call an electrician - greatly reducing maintenance costs and truly enhancing the lifetime of the fixture, all at minimum cost to the end user.

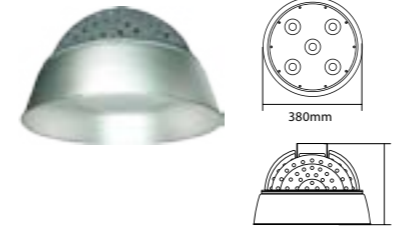






Model I

Standard: HB-3100



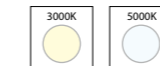
With **EIS**: HB-3100A



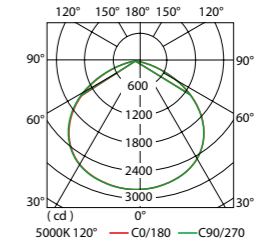
HB-3100 / HB-3100A

100W 100-277V Ra≥80  
8800lm 88lm/W 5000K  $\triangle$ 90°  
7700lm 77lm/W 5000K  $\triangle$ 120°

IP 65  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



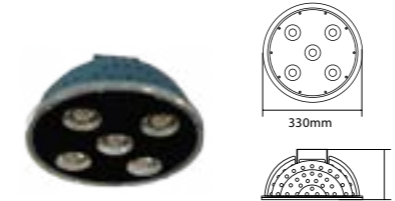
Material: Aluminum  
Driver: Built-in  
Power Factor: ≥ 0.9  
Weight: 4.6kg / 10.14lb (standard)  
5.43kg / 11.97lb (with EIS)  
Lifetime: ≥ 50,000hrs



5000K 90°			5000K 120°		
H(m)	E(lx)	D(cm)	H(m)	E(lx)	D(cm)
1	3527	255	1	2574	318
2	882	510	2	644	637
3	392	764	3	286	955
4	220	1019	4	161	1274
5	141	1274	5	103	1592
6	98	1529	6	72	1910
7	72	1783	7	53	2229
8	55	2038	8	40	2547
9	44	2293	9	32	2866
10	35	2548	10	26	3184
11	29	2802	11	21	3502
12	25	3057	12	18	3821
13	21	3312	13	15	4139
14	18	3567	14	13	4457
15	16	3821	15	11	4776

Model II

Standard: HB-3100



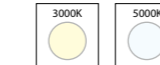
With **EIS**: HB-3100A



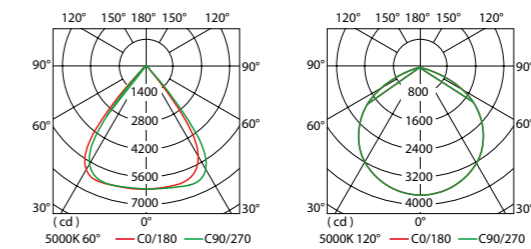
HB-3100 / HB-3100A

100W 100-277V Ra≥80  
9200lm 92lm/W 5000K  $\triangle$ 60°  
8600lm 86lm/W 5000K  $\triangle$ 90°  
9800lm 98lm/W 5000K  $\triangle$ 120°

IP 65  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



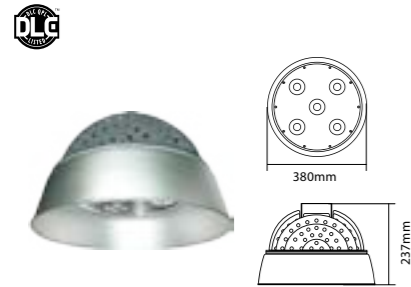
Material: Aluminum  
Driver: Built-in  
Weight: 4.8kg / 10.58lb (standard)  
5kg / 11.02lb (with EIS)  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



5000K 60°			5000K 90°			5000K 120°		
H(m)	E(lx)	D(cm)	H(m)	E(lx)	D(cm)	H(m)	E(lx)	D(cm)
1	6453	158	1	5878	202	1	3587	297
2	1613	316	2	1469	404	2	897	594
3	717	473	3	653	605	3	399	891
4	403	631	4	367	807	4	224	1187
5	258	789	5	235	1009	5	144	1484
6	179	947	6	163	1211	6	100	1781
7	132	1104	7	120	1412	7	73	2078
8	101	1262	8	92	1614	8	56	2375
9	80	1420	9	73	1816	9	44	2672
10	65	1578	10	59	2018	10	36	2968
11	53	1735	11	49	2219	11	30	3265
12	45	1893	12	41	2421	12	25	3562
13	38	2051	13	35	2623	13	21	3859
14	33	2209	14	30	2825	14	18	4156
15	29	2367	15	26	3026	15	16	4453

Model III

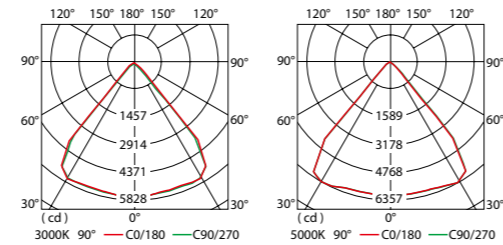
Standard: HB-3100



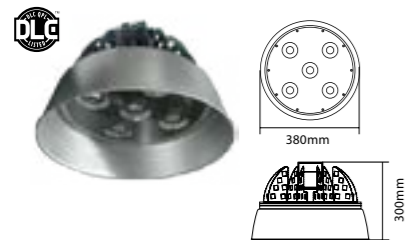
HB-3100 / HB-3100A

100W 100-277V Ra≥80  
9000lm 90lm/W 3000K  $\triangle_{\Delta}$ 90°  
10,100lm 101lm/W 5000K  $\triangle_{\Delta}$ 90°

IP 65  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



With EIS<sup>®</sup>: HB-3100A



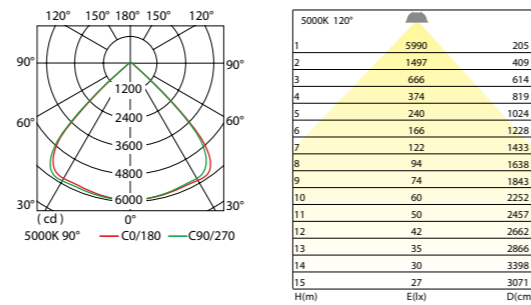
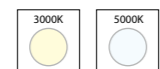
Material: Aluminum  
Driver: Built-in  
Power Factor: ≥ 0.9  
Weight: 5.22kg / 11.51lb (standard)  
5.22kg / 11.51lb (with EIS)  
Lifetime: ≥ 50,000hrs



HB-3150A (with EIS<sup>®</sup>)

150W 100-277V Ra≥80  
11,700lm 78lm/W 5000K  $\triangle_{\Delta}$ 90°

IP 65  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



Material: Aluminum  
Driver: Built-in  
Weight: 5kg / 11.02lb  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

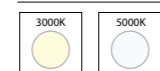
Model I



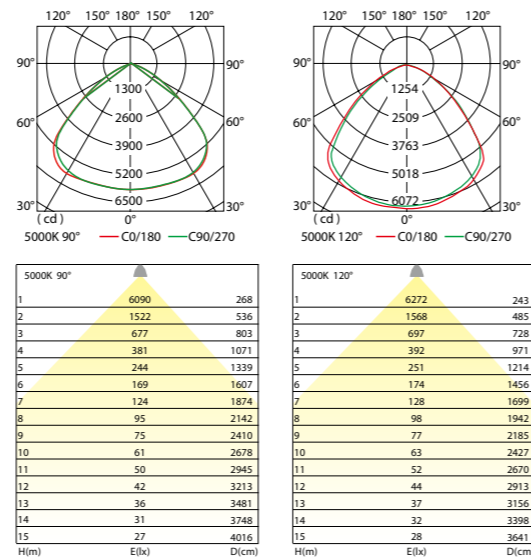
HB-3180

180W 100-277V Ra≥80  
17,100lm 95lm/W 5000K  $\triangle_{\Delta}$ 90°  
15,840lm 88lm/W 5000K  $\triangle_{\Delta}$ 120°

IP 65  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



Material: Aluminum  
Driver: Built-in  
Weight: 6.1kg / 13.45lb  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



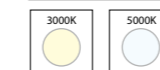
Model II



HB-3180

180W 100-277V Ra≥80  
16,200 lm 90lm/W 5000K  $\triangle_{\Delta}$ 90°

IP 65  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



Material: Aluminum  
Driver: Built-in  
Weight: 6.37kg / 14.04lb  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

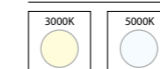
Standard: HB-3250



HB-3250 / HB-3250A

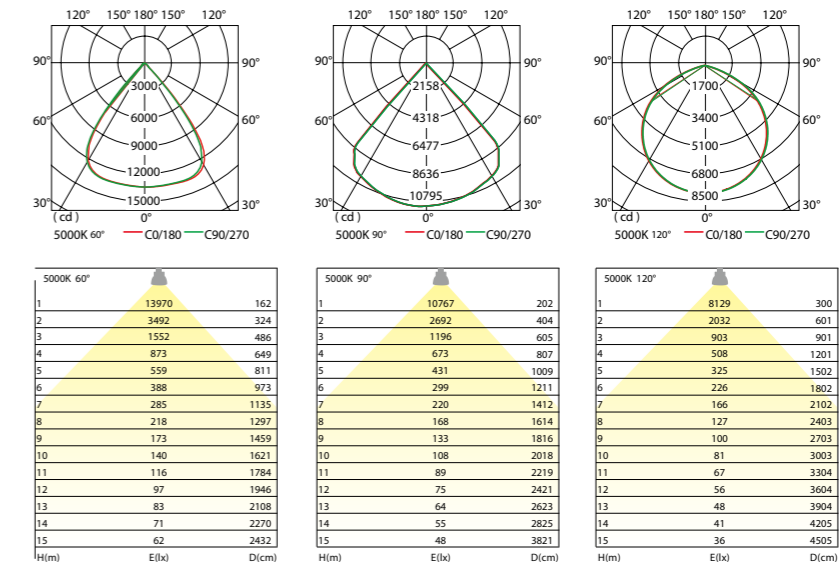
250W 100-240/277V Ra≥80  
21,250lm 85lm/W 5000K  $\triangle_{\Delta}$ 60°  
22,500lm 89lm/W 5000K  $\triangle_{\Delta}$ 90°  
23,000lm 92lm/W 5000K  $\triangle_{\Delta}$ 120°

IP 65 IK 09  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



Material: Aluminum  
Driver: Built-in  
Weight: 9.5kg / 20.94lb(standard)  
9.7kg / 21.38lb(with EIS)  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

With EIS<sup>®</sup>: HB-3250A



Order Number

Model No.	Order No.	Certifications / Listings	Beam Angle	Optical Combination	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Housing Color
HB-3100 (Model I)	HB-3100-113	UL	90°	Lampshade + Frosted diffuser	3000K	80	100W	Built-in	100-277V	No	Grey
	HB-3100-114	UL	120°	Lampshade + Milky diffuser	3000K	80	100W	Built-in	100-277V	No	Grey
	HB-3100-115	UL	90°	Lampshade + Frosted diffuser	5000K	80	100W	Built-in	100-277V	No	Grey
	HB-3100-116	UL	120°	Lampshade + Milky diffuser	5000K	80	100W	Built-in	100-277V	No	Grey
	HB-3100-117	N/A	90°	Lampshade + Frosted diffuser	3000K	80	100W	Built-in	100-277V	No	Grey
	HB-3100-118	N/A	120°	Lampshade + Milky diffuser	3000K	80	100W	Built-in	100-277V	No	Grey
	HB-3100-119	N/A	90°	Lampshade + Frosted diffuser	5000K	80	100W	Built-in	100-277V	No	Grey
	HB-3100-120	N/A	120°	Lampshade + Milky diffuser	5000K	80	100W	Built-in	100-277V	No	Grey
	HB-3100-121	UL	60°	Lens	3000K	80	100W	Built-in	100-277V	No	Grey
	HB-3100-122	UL	90°	Lens	3000K	80	100W	Built-in	100-277V	No	Grey
HB-3100-123	UL	120°	Lens	3000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-124	UL	60°	Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-125	UL	90°	Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-126	UL	120°	Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-127	N/A	60°	Lens	3000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-128	N/A	90°	Lens	3000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-129	N/A	120°	Lens	3000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-130	N/A	60°	Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-131	N/A	90°	Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-132	N/A	120°	Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-133	UL,DLC	60°	Lampshade + Lens	3000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-134	UL,DLC	90°	Lampshade + Lens	3000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-135	UL,DLC	120°	Lampshade + Lens	3000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-136	UL,DLC	60°	Lampshade + Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-137	UL,DLC	90°	Lampshade + Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-138	UL,DLC	120°	Lampshade + Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-139	N/A	60°	Lampshade + Lens	3000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-140	N/A	90°	Lampshade + Lens	3000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-141	N/A	120°	Lampshade + Lens	3000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-142	N/A	60°	Lampshade + Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-143	N/A	90°	Lampshade + Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3100-144	N/A	120°	Lampshade + Lens	5000K	80	100W	Built-in	100-277V	No	Grey	
HB-3150-111	UL	60°	Lens	3000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-112	UL	90°	Lens	3000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-113	UL	120°	Lens	3000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-114	UL	60°	Lens	5000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-115	UL	90°	Lens	5000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-116	UL	120°	Lens	5000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-117	N/A	60°	Lens	3000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-118	N/A	90°	Lens	3000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-119	N/A	120°	Lens	3000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-120	N/A	60°	Lens	5000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-121	N/A	90°	Lens	5000K	Built-in	150W	Built-in	100-277V	No	Grey	
HB-3150-122	N/A	120°	Lens	150W	Built-in	150W	Built-in	100-277V	No	Grey	

Order Number

Model No.	Order No.	Certifications / Listings	Beam Angle	Optical Combination	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Housing Color
HB-3180 (Model I)	HB-3180-113	UL, DLC, NOM	90°	Lampshade + Frosted diffuser	3000K	80	180W	Built-in	100-277V	No	Grey
	HB-3180-114	UL, DLC, NOM	120°	Lampshade + Milky diffuser	3000K	80	180W	Built-in	100-277V	No	Grey
	HB-3180-115	UL, DLC, NOM	90°	Lampshade + Frosted diffuser	5000K	80	180W	Built-in	100-277V	No	Grey
	HB-3180-116	UL, DLC, NOM	120°	Lampshade + Milky diffuser	5000K	80	180W	Built-in	100-277V	No	Grey
	HB-3180-117	N/A	90°	Lampshade + Frosted diffuser	3000K	80	180W	Built-in	100-277V	No	Grey
	HB-3180-118	N/A	120°	Lampshade + Milky diffuser	3000K	80	180W	Built-in	100-277V	No	Grey
	HB-3180-119	N/A	90°	Lampshade + Frosted diffuser	5000K	80	180W	Built-in	100-277V	No	Grey
	HB-3180-120	N/A	120°	Lampshade + Milky diffuser	5000K	80	180W	Built-in	100-277V	No	Grey
	HB-3180-121	N/A	60°	Lens	3000K	80	180W	Built-in	100-277V	No	Grey
	HB-3180-122	N/A	90°	Lens	3000K	80	180W	Built-in	100-277V	No	Grey
HB-3180-123	N/A	120°	Lens	3000K	80	180W	Built-in	100-277V	No	Grey	
HB-3180-124	N/A	60°	Lens	5000K	80	180W	Built-in	100-277V	No	Grey	
HB-3180-125	N/A	90°	Lens	5000K	80	180W	Built-in	100-277V	No	Grey	
HB-3180-126	N/A	120°	Lens	5000K	80	180W	Built-in	100-277V	No	Grey	
HB-3180-127	N/A	60°	Lens	3000K	80	180W	Built-in	100-277V	No	Grey	
HB-3180-128	N/A	90°	Lens	3000K	80	180W	Built-in	100-277V	No	Grey	
HB-3180-129	N/A	120°	Lens	3000K	80	180W	Built-in	100-277V	No	Grey	
HB-3180-130	N/A	60°	Lens	5000K	80	180W	Built-in	100-277V	No	Grey	
HB-3180-131	N/A	90°	Lens	5000K	80	180W	Built-in	100-277V	No	Grey	
HB-3180-132	N/A	120°	Lens	5000K	80	180W	Built-in	100-277V	No	Grey	
HB-3250-113	UL, NOM	60°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-114	UL, NOM	90°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-115	UL, NOM	120°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-116	UL, NOM	60°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-117	UL, NOM	90°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-118	UL, NOM	120°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-119	N/A	60°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-120	N/A	90°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-121	N/A	120°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-122	N/A	60°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-123	N/A	90°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250-124	N/A	120°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-111	UL, CE, SAA	60°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-112	UL, CE, SAA	90°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-113	UL, CE, SAA	120°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-114	UL, CE, SAA	60°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-115	UL, CE, SAA	90°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-116	UL, CE, SAA	120°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-117	UL, CE, SAA	60°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-118	UL, CE, SAA	90°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-119	UL, CE, SAA	120°	Lens	3000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-120	UL, CE, SAA	60°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-121	UL, CE, SAA	90°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	
HB-3250A-122	UL, CE, SAA	120°	Lens	5000K	80	250W	Built-in	100-277V	No	Grey	

# LED LOW BAY LUMINAIRES

DELTA LOW BAY

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20W



40W/60W/80W



40W/60W/80W





# DELTA LED LOW BAY



**Excellent Heat Dissipation**

The specially designed heat sink does not let dust easily collect, by also allowing more air to flow through it. The air flow also provides for greater heat dissipation, in turn, improving the performance of a long-lasting, durable luminaire.



**High Durability**

A robust, protective design gives this luminaire an IP of 65 and the ability to handle harsh environments.



**Big Light, Low Glare**

It is different from the common low bay in the market. The big diffuser covering the array of LEDs provides a better light distribution while effectively reducing glare and discomfort.



**Energy Saving**

The combination of high-efficacy LED components with excellent whole system design has SONARAY LED lighting achieving energy savings of 40% - 80% compared with traditional lighting sources.



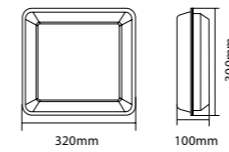
**Quality Core Components**

Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality SMD packages that have great quality and long life as backed by LM-80 and TM-21 reports. Quality inside the luminaires that shines on the outside.



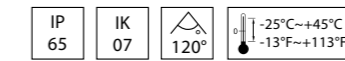
**Easy Mounting**

This luminaire is good for general lighting installations, and is easily mounted on walls. It is also useful as supplementary lighting, such as over work surfaces - in a warehouse, factory, or wherever you like.



**LW-1020**

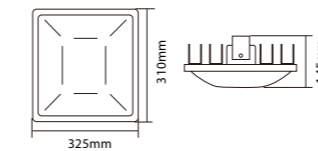
20W 100-277V 1800lm 90lm/W  
6000K Ra≥80



Material: Aluminum Weight: 3.1kg / 6.83lb  
Lifetime: ≥ 40,000hrs Driver: Built-in Power Factor: ≥ 0.9

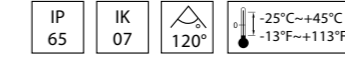


**Motion Sensor**  
Innovative motion sensor control triggers the light to turn to full power when motion is detected, and drops to 30% consumption when none is detected. (Optional function.)

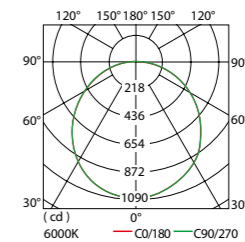


**LW-1040**

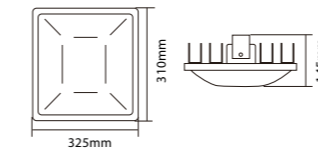
40W 100-277V 3600lm 90lm/W  
6000K Ra≥80



Material: Aluminum Weight: 3.2kg / 7.05lb  
Lifetime: ≥ 50,000hrs Driver: Built-in Power Factor: ≥ 0.9



H(m)	E(x)	D(cm)
1	1089	310
2	272	620
3	121	940
4	68	1250
5	44	1560
6	30	1870
7	22	2190
8	17	2500
9	13	2810
10	11	3120

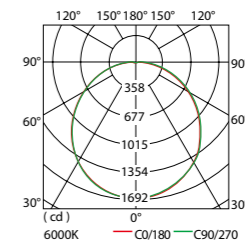


**LW-1060**

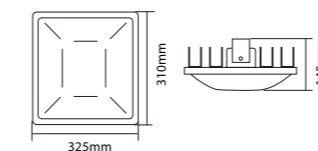
60W 100-277V 5400lm 90lm/W  
6000K Ra≥80



Material: Aluminum Weight: 3.2kg / 7.05lb  
Lifetime: ≥ 50,000hrs Driver: Built-in Power Factor: ≥ 0.9

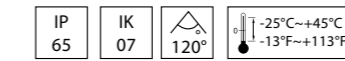


H(m)	E(x)	D(cm)
1	1690	310
2	422	620
3	188	930
4	106	1240
5	68	1550
6	47	1860
7	35	2170
8	26	2480
9	21	2790
10	17	3100

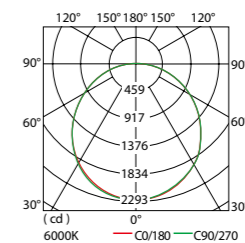


**LW-1080**

80W 100-277V 7440lm 93lm/W  
6000K Ra≥80



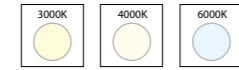
Material: Aluminum Weight: 3.5kg / 7.42lb  
Lifetime: ≥ 50,000hrs Driver: Built-in Power Factor: ≥ 0.9



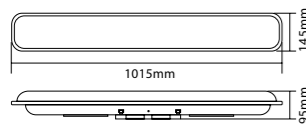
H(m)	E(x)	D(cm)
1	2290	320
2	573	640
3	255	950
4	143	1270
5	92	1590
6	64	1910
7	47	2230
8	36	2540
9	28	2860
10	23	3180

**LWL-1040**

40W 100-220V  
3600lm 90lm/W  
6000K Ra≥80

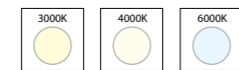


Material: Aluminum Driver: Built-in  
Weight: 3.3kg / 7.28lb Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

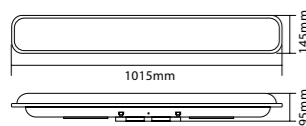


**LWL-1060**

60W 100-220V  
5400lm 90lm/W  
6000K Ra≥80



Material: Aluminum Driver: Built-in  
Weight: 3.3kg / 7.28lb Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs

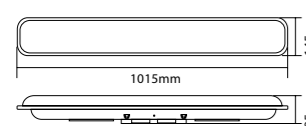


**LWL-1080**

80W 100-220V  
7200lm 90lm/W  
6000K Ra≥80



Material: Aluminum Driver: Built-in  
Weight: 3.3kg / 7.28lb Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



Order Number

Model No.	Order No.	Certifications / Listings	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Beam Angle	Diffuser	Housing Color
LW-1020	LW-1020-111	/	6000K	80	20W	Built-in	100-277V	No	120°	Frosted	White
	LW-1020-112	/	4000K	80	20W	Built-in	100-277V	No	120°	Frosted	White
	LW-1020-113	/	3000K	80	20W	Built-in	100-277V	No	120°	Frosted	White
	LW-1020-114	/	6000K	80	20W	Built-in	100-277V	No	120°	Frosted	White
	LW-1020-115	/	4000K	80	20W	Built-in	100-277V	No	120°	Frosted	White
	LW-1020-116	/	3000K	80	20W	Built-in	100-277V	No	120°	Frosted	White
LW-1040	LW-1040-111	UL	6000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
	LW-1040-112	UL	4000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
	LW-1040-113	UL	3000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
	LW-1040-114	UL	6000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
	LW-1040-115	UL	4000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
	LW-1040-116	UL	3000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
LW-1060	LW-1060-111	UL,DLC	6000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
	LW-1060-112	UL,DLC	4000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
	LW-1060-113	UL,DLC	3000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
	LW-1060-114	UL,DLC	6000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
	LW-1060-115	UL,DLC	4000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
	LW-1060-116	UL,DLC	3000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
LW-1080	LW-1080-111	UL	6000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
	LW-1080-112	UL	4000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
	LW-1080-113	UL	3000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
	LW-1080-114	UL	6000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
	LW-1080-115	UL	4000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
	LW-1080-116	UL	3000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
LWL-1040	LWL-1040-111	/	6000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1040-112	/	4000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1040-113	/	3000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1040-114	/	6000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1040-115	/	4000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1040-116	/	3000K	80	40W	Built-in	100-277V	No	120°	Frosted	White
LWL-1060	LWL-1060-111	/	6000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1060-112	/	4000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1060-113	/	3000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1060-114	/	6000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1060-115	/	4000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1060-116	/	3000K	80	60W	Built-in	100-277V	No	120°	Frosted	White
LWL-1080	LWL-1080-111	/	6000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1080-112	/	4000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1080-113	/	3000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1080-114	/	6000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1080-115	/	4000K	80	80W	Built-in	100-277V	No	120°	Frosted	White
	LWL-1080-116	/	3000K	80	80W	Built-in	100-277V	No	120°	Frosted	White

DELTA  
LED PETROL  
STATION  
LUMINAIRE





## DELTA LED PETROL STATION LUMINAIRE



### Excellent Heat Dissipation

The specially designed heat sink does not let dust easily collect. While also allowing more air to flow through it, it provides for greater heat dissipation and, in turn, improves the performance of a long-lasting, durable luminaire.

### IP65

#### High Durability

A robust, protective design gives this luminaire an IP of 65 and the ability to handle harsh environments.



#### Energy Saving

The combination of high-efficiency LED components with excellent whole system design has SONARAY LED lighting achieving energy savings of 40% - 80% compared with traditional lighting sources.



#### Quality Core Components

Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality COB packages from CITELED - chipsets that have great quality and long life as backed by LM-80 and TM-21 reports. Quality inside the luminaires that shines on the outside.



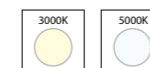
#### Motion Sensor

Innovative motion sensor control triggers the fixture to full-on when motion is detected and drop down to 30% output when the space below is empty.

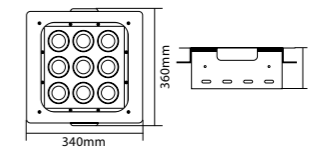


### PT-1130

130W 100-277V 12,090lm 93lm/W  
5000K Ra≥80

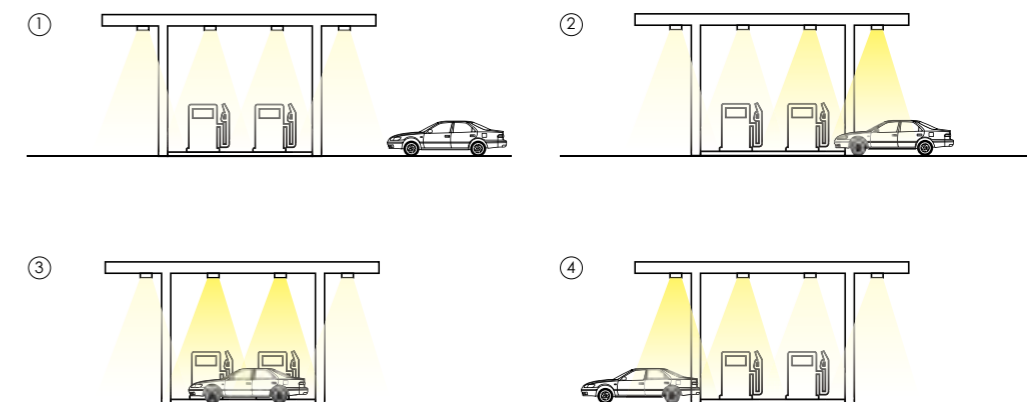


Material: Aluminum Power Factor: ≥ 0.9  
Driver: Built-in Lifetime: ≥ 50,000hrs  
Weight: 5.7kg / 12.56lb



### Motion Sensor

Motion sensor control triggers the luminaire to turn to full brightness when motion is detected, and drops to 30% when none is.



### Order Number

Model No.	Order No.	Certification(s)	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Beam Angle	Diffuser	Housing Color
PW-1130	PT-1130-111	UL	5000K	80	130W	Built-in	100-277V	Yes	60°	Transparent	White
	PT-1130-112	UL	5000K	80	130W	Built-in	100-277V	Yes	90°	Transparent	White
	PT-1130-113	UL	5000K	80	130W	Built-in	100-277V	Yes	120°	Transparent	White
	PT-1130-114	UL	3000K	80	130W	Built-in	100-277V	Yes	60°	Transparent	White
	PT-1130-115	UL	3000K	80	130W	Built-in	100-277V	Yes	90°	Transparent	White
	PT-1130-116	UL	3000K	80	130W	Built-in	100-277V	Yes	120°	Transparent	White
	PT-1130-117	UL	5000K	80	130W	Built-in	100-277V	Yes	60°	Transparent	White
	PT-1130-118	UL	5000K	80	130W	Built-in	100-277V	Yes	90°	Transparent	White
	PT-1130-119	UL	5000K	80	130W	Built-in	100-277V	Yes	120°	Transparent	White
	PT-1130-120	UL	3000K	80	130W	Built-in	100-277V	Yes	60°	Transparent	White
	PT-1130-121	UL	3000K	80	130W	Built-in	100-277V	Yes	90°	Transparent	White
	PT-1130-122	UL	3000K	80	130W	Built-in	100-277V	Yes	120°	Transparent	White



# DELTA LED FLOOD LIGHT

Standard:



30W



40W



60W



100/130W



250W



520W

With **EIS** (Easy Interchange System)



100/130/150W



# DELTA LED FLOOD LIGHT

## EIS

Easy Interchange System

EIS not only makes for ease of maintenance, but for enhanced flexibility, as well. Replace the driver at the end of its rated lifetime and give an already long-lasting fixture another lease on life. Keep the luminance, keep the hardware, keep the value.

## Corrosion Resistance

Corrosion Resistance

By adopting dedicated processing treatments on the heat sink and other components, these luminaires have excellent anti-corrosive and UV-resistance.

## IP65

High Durability

A robust, protective design gives this luminaire an IP of 65 and the ability to handle harsh environments.

## Optimal Optical Combination

Optimal Optical Combination

The unique design of lens and diffuser used gives good quality and quantity of light, where you need it. With options of beam angles to choose from, these luminaires are ideal for a number of applications.

## Quality Core Component

Quality Core Component

Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality COB packages from CITELED – chipsets that have great quality and long life as backed by LM-80 and TM-21 reports. Quality inside the luminaires that shines on the outside.

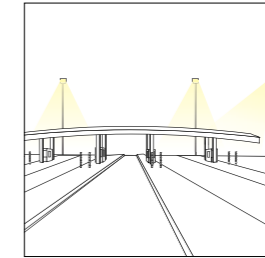
## SERIES

Full Flood Light Family

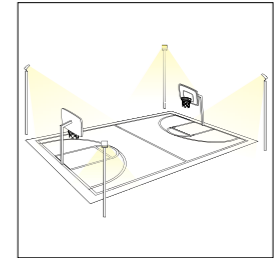
Together these flood lights form a full family of products, thereby offering a full suite of luminaires suitable for a variety of both indoor and outdoor applications.



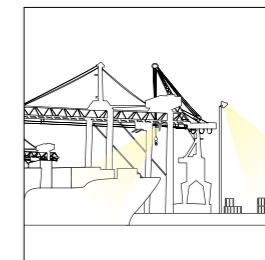
### Applications:



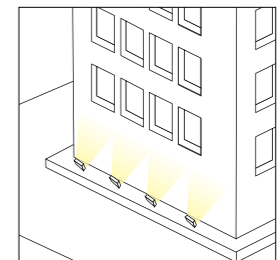
Toll Stations



Outdoor Courts



Piers



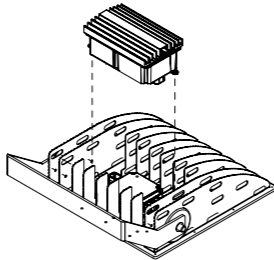
Building Exteriors

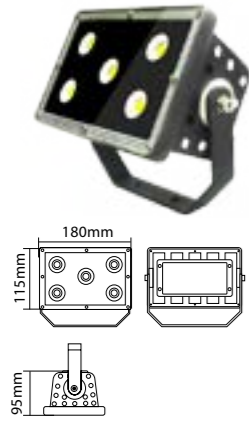
# DELTA LED FLOOD LIGHT



## EIS<sup>®</sup> Easy Interchange System

Our patented 'Plug and Use' Removable Power Supply makes maintenance simple and easy. It takes only five minutes or less to replace a driver unit - eliminating the need to call an electrician - greatly reducing maintenance costs and truly enhancing the lifetime of the fixture, all at minimum cost to the end user.





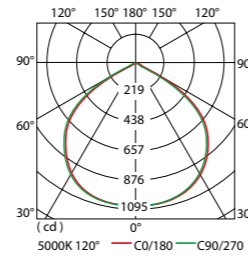
**FL-3030**

30W 100-277V 2670m 89lm/W  
5000K Ra≥80  $\Delta$ 120°

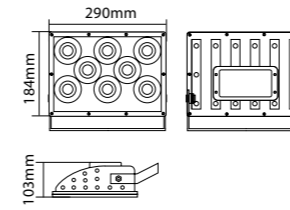
IP 65 IK 09  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



Material: Aluminum  
Housing Color: Bronze  
Driver: Built-in  
Power Factor: ≥ 0.9  
Weight: 1.2kg / 2.65lb  
Lifetime: ≥ 50,000hrs



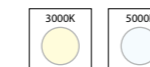
H(m)	E(lx)	D(cm)
1	1092	276
2	273	553
3	121	829
4	68	1106
5	44	1382
6	33	1659



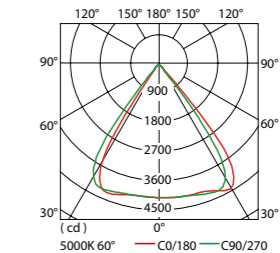
**FL-3060**

60W 100-277V Ra≥80  
5100lm 85lm/W 5000K  $\Delta$ 60°  
4920lm 82lm/W 5000K  $\Delta$ 90°  
5100lm 85lm/W 5000K  $\Delta$ 120°

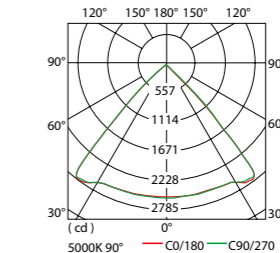
IP 65 IK 09  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



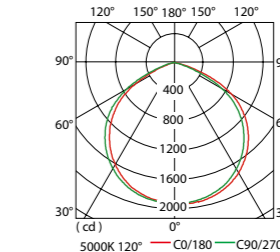
Material: Aluminum  
Housing Color: Bronze  
Driver: Built-in  
Power Factor: ≥ 0.9  
Weight: 2.48kg / 5.47lb  
Lifetime: ≥ 50,000hrs



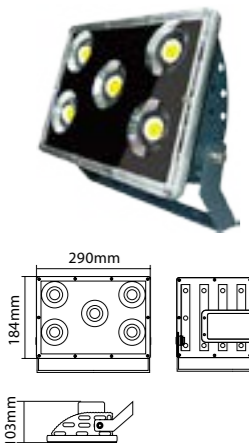
H(m)	E(lx)	D(cm)
1	3757	150
2	939	299
3	418	449
4	235	598
5	150	747
6	104	897



H(m)	E(lx)	D(cm)
1	2682	193
2	671	387
3	298	580
4	168	773
5	107	966
6	75	1160



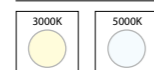
H(m)	E(lx)	D(cm)
1	1928	300
2	482	599
3	214	898
4	121	1198
5	77	1497
6	54	1797



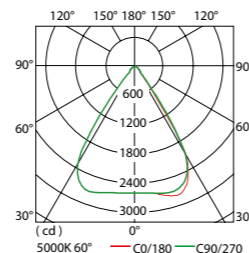
**FL-3040**

40W 100-277V Ra≥80  
3200lm 80lm/W 5000K  $\Delta$ 60°  
3320lm 83lm/W 5000K  $\Delta$ 90°  
3440lm 86lm/W 5000K  $\Delta$ 120°

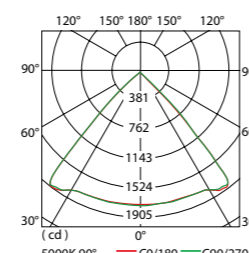
IP 65 IK 09  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



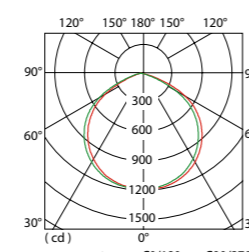
Material: Aluminum  
Housing Color: Bronze  
Driver: Built-in  
Power Factor: ≥ 0.9  
Weight: 2.4kg / 5.29lb  
Lifetime: ≥ 50,000hrs



H(m)	E(lx)	D(cm)
1	2581	135
2	645	270
3	287	405
4	161	540
5	103	675
6	72	810

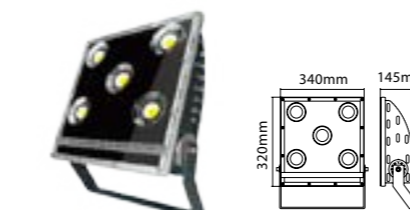


H(m)	E(lx)	D(cm)
1	1784	192
2	446	384
3	198	576
4	112	767
5	71	959
6	50	1151

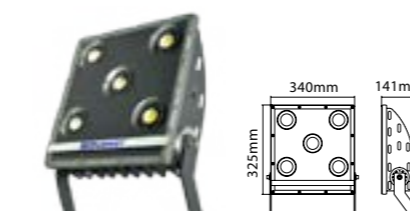


H(m)	E(lx)	D(cm)
1	1231	302
2	308	604
3	137	906
4	77	1208
5	49	1510
6	34	1812

**Standard: FL-3100**



**With EIS: FL-3100A**



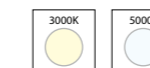
**FL-3100**

100W 100-277V Ra≥80  
9900lm 99lm/W 5000K  $\Delta$ 60°  
9100lm 91lm/W 5000K  $\Delta$ 90°  
9900lm 99lm/W 5000K  $\Delta$ 120°

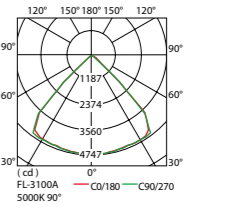
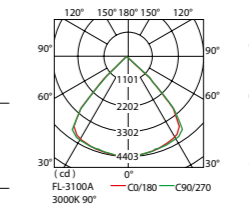
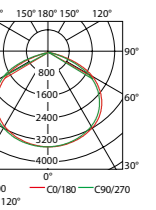
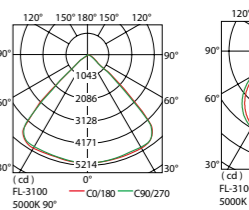
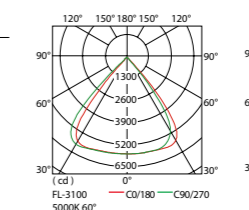
**FL-3100A**

100W 100-277V Ra≥80  
8300lm 83lm/W 3000K  $\Delta$ 90°  
9400lm 94lm/W 5000K  $\Delta$ 90°

IP 65 IK 09  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



Material: Aluminum  
Housing Color: Bronze  
Driver: Built-in  
Power Factor: ≥ 0.9  
Weight: 5.3kg / 11.68lb (FL-3100)  
5.4kg / 11.9lb (FL-3100A)  
Lifetime: ≥ 50,000hrs

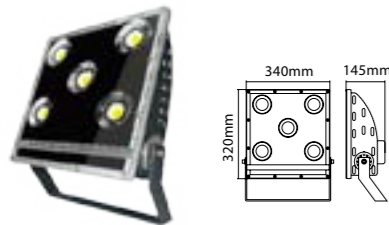


H(m)	E(lx)	D(cm)
2	1496	329
4	374	657
6	166	986
8	93	1314
10	60	1643
12	42	1972

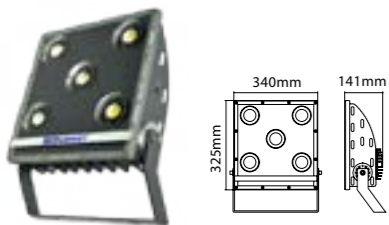
H(m)	E(lx)	D(cm)
2	1304	382
4	326	764
6	145	1147
8	81	1529
10	52	1911
12	36	2293

H(m)	E(lx)	D(cm)
2	897	614
4	224	1228
6	100	1842
8	56	2456
10	36	3070
12	25	3674

Standard: FL-3130



With EIS<sup>®</sup>: FL-3130A



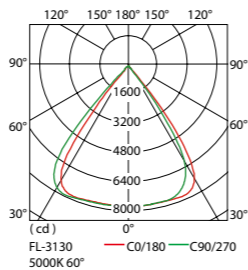
FL-3130 / FL-3130A

130W 100-277V Ra≥80  
 11,310lm 87lm/W 5000K  $\Delta$ 60°  
 10,920lm 84lm/W 5000K  $\Delta$ 90°  
 12,350lm 95lm/W 5000K  $\Delta$ 120°

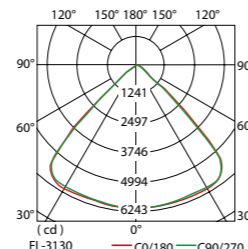
IP 65 IK 09  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



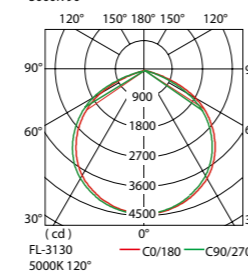
Material: Aluminum  
 Housing Color: Bronze  
 Driver: Built-in  
 Power Factor: ≥ 0.9  
 Weight: 5.3kg / 11.68lb (FL-3130)  
 5.4kg / 11.91lb (FL-3130A)  
 Lifetime: ≥ 50,000hrs



H(m)	E(lx)	D(cm)
2	1864	318
4	466	637
6	207	955
8	117	1274
10	75	1592
12	52	1911



H(m)	E(lx)	D(cm)
2	1561	377
4	390	754
6	173	1131
8	98	1507
10	62	1884
12	43	2261

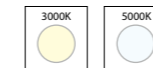


H(m)	E(lx)	D(cm)
2	1073	605
4	268	1211
6	119	1816
8	67	2421
10	43	3027
12	30	3632

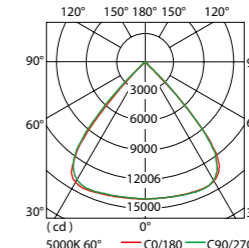
FL-3250

250W 100-277V Ra≥80  
 21,750lm 87lm/W 5000K  $\Delta$ 60°  
 21,000lm 84lm/W 5000K  $\Delta$ 90°  
 23,250lm 93lm/W 5000K  $\Delta$ 120°

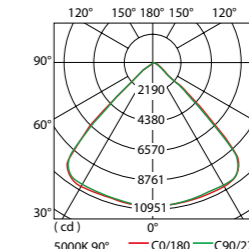
IP 65 IK 09  $-25^{\circ}\text{C}\sim+45^{\circ}\text{C}$   
 $-13^{\circ}\text{F}\sim+113^{\circ}\text{F}$



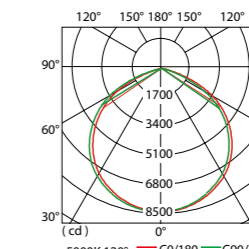
Material: Aluminum  
 Housing Color: Bronze  
 Driver: Built-in  
 Power Factor: ≥ 0.9  
 Weight: 9kg / 19.84lb  
 Lifetime: ≥ 50,000hrs



H(m)	E(lx)	D(cm)
2	3407	329
4	852	658
6	379	987
8	213	1316
10	136	1644
12	95	1973



H(m)	E(lx)	D(cm)
2	2738	420
4	684	840
6	304	1160
8	171	1680
10	110	2101
12	76	2521



H(m)	E(lx)	D(cm)
2	2042	597
4	511	1194
6	227	1790
8	128	2387
10	82	2984
12	57	3571

Order Number

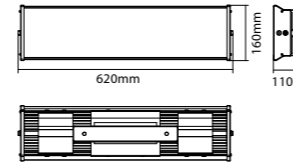
Model No.	Order No.	Certifications/ Listings	Beam Angle	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Housing Color
FL-3030	FL-3030-122	UL/NOM	60°	3000K	80	30W	Built-in	100-277V	No	Bronze
	FL-3030-123	UL/NOM	90°	3000K	80	30W	Built-in	100-277V	No	Bronze
	FL-3030-114	UL/NOM	120°	3000K	80	30W	Built-in	100-277V	No	Bronze
	FL-3030-124	UL/NOM	60°	5000K	80	30W	Built-in	100-277V	No	Bronze
	FL-3030-125	UL/NOM	90°	5000K	80	30W	Built-in	100-277V	No	Bronze
	FL-3030-115	UL/NOM	120°	5000K	80	30W	Built-in	100-277V	No	Bronze
FL-3040	FL-3040-120	UL/NOM	60°	3000K	80	40W	Built-in	100-277V	No	Bronze
	FL-3040-121	UL/NOM	90°	3000K	80	40W	Built-in	100-277V	No	Bronze
	FL-3040-122	UL/NOM	120°	3000K	80	40W	Built-in	100-277V	No	Bronze
	FL-3040-123	UL/NOM	60°	5000K	80	40W	Built-in	100-277V	No	Bronze
	FL-3040-124	UL/NOM	90°	5000K	80	40W	Built-in	100-277V	No	Bronze
	FL-3040-125	UL/NOM	120°	5000K	80	40W	Built-in	100-277V	No	Bronze
FL-3060	FL-3060-120	UL/NOM/DLC	60°	3000K	80	60W	Built-in	100-277V	No	Bronze
	FL-3060-121	UL/NOM/DLC	90°	3000K	80	60W	Built-in	100-277V	No	Bronze
	FL-3060-122	UL/NOM/DLC	120°	3000K	80	60W	Built-in	100-277V	No	Bronze
	FL-3060-123	UL/NOM/DLC	60°	5000K	80	60W	Built-in	100-277V	No	Bronze
	FL-3060-124	UL/NOM/DLC	90°	5000K	80	60W	Built-in	100-277V	No	Bronze
	FL-3060-125	UL/NOM/DLC	120°	5000K	80	60W	Built-in	100-277V	No	Bronze
FL-3100	FL-3100-120	N/A	60°	3000K	80	100W	Built-in	100-277V	No	Bronze
	FL-3100-121	N/A	90°	3000K	80	100W	Built-in	100-277V	No	Bronze
	FL-3100-122	N/A	120°	3000K	80	100W	Built-in	100-277V	No	Bronze
	FL-3100-123	N/A	60°	5000K	80	100W	Built-in	100-277V	No	Bronze
	FL-3100-124	N/A	90°	5000K	80	100W	Built-in	100-277V	No	Bronze
	FL-3100-125	N/A	120°	5000K	80	100W	Built-in	100-277V	No	Bronze
FL-3100A	FL-3100A-117	UL	60°	3000K	80	100W	Built-in	100-277V	No	Bronze
	FL-3100A-118	UL	90°	3000K	80	100W	Built-in	100-277V	No	Bronze
	FL-3100A-119	UL	120°	3000K	80	100W	Built-in	100-277V	No	Bronze
	FL-3100A-120	UL	60°	5000K	80	100W	Built-in	100-277V	No	Bronze
	FL-3100A-121	UL	90°	5000K	80	100W	Built-in	100-277V	No	Bronze
	FL-3100A-122	UL	120°	5000K	80	100W	Built-in	100-277V	No	Bronze
FL-3130	FL-3130-120	NOM	60°	3000K	80	130W	Built-in	100-277V	No	Bronze
	FL-3130-121	NOM	90°	3000K	80	130W	Built-in	100-277V	No	Bronze
	FL-3130-122	NOM	120°	3000K	80	130W	Built-in	100-277V	No	Bronze
	FL-3130-123	NOM	60°	5000K	80	130W	Built-in	100-277V	No	Bronze
	FL-3130-124	NOM	90°	5000K	80	130W	Built-in	100-277V	No	Bronze
	FL-3130-125	NOM	120°	5000K	80	130W	Built-in	100-277V	No	Bronze
FL-3130A	FL-3130A-117	N/A	60°	3000K	80	150W	Built-in	100-277V	No	Bronze
	FL-3130A-118	N/A	90°	3000K	80	150W	Built-in	100-277V	No	Bronze
	FL-3130A-119	N/A	120°	3000K	80	150W	Built-in	100-277V	No	Bronze
	FL-3130A-120	N/A	60°	5000K	80	150W	Built-in	100-277V	No	Bronze
	FL-3130A-121	N/A	90°	5000K	80	150W	Built-in	100-277V	No	Bronze
	FL-3130A-122	N/A	120°	5000K	80	150W	Built-in	100-277V	No	Bronze
FL-3150A	FL-3150A-117	UL/DLC	60°	3000K	80	150W	Built-in	100-277V	No	Bronze
	FL-3150A-118	UL/DLC	90°	3000K	80	150W	Built-in	100-277V	No	Bronze
	FL-3150A-119	UL/DLC	120°	3000K	80	150W	Built-in	100-277V	No	Bronze
	FL-3150A-120	UL/DLC	60°	5000K	80	150W	Built-in	100-277V	No	Bronze
	FL-3150A-121	UL/DLC	90°	5000K	80	150W	Built-in	100-277V	No	Bronze
	FL-3150A-122	UL/DLC	120°	5000K	80	150W	Built-in	100-277V	No	Bronze
FL-3250	FL-3250-121	DLC/UL/NOM	60°	3000K	80	250W	Built-in	100-277V	No	Bronze
	FL-3250-122	DLC/UL/NOM	90°	3000K	80	250W	Built-in	100-277V	No	Bronze
	FL-3250-128	DLC/UL/NOM	120°	3000K	80	250W	Built-in	100-277V	No	Bronze
	FL-3250-124	DLC/UL/NOM	60°	5000K	80	250W	Built-in	100-277V	No	Bronze
	FL-3250-125	DLC/UL/NOM	90°	5000K	80	250W	Built-in	100-277V	No	Bronze
	FL-3250-129	DLC/UL/NOM	120°	5000K	80	250W	Built-in	100-277V	No	Bronze

Order Number

Model No.	Order No.	Certifications/ Listings	Beam Angle	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Housing Color
FL-3520	FL-3520-118	UL/NOM	60°	3000K	80	520W	Built-in	100-277V	No	Bronze
	FL-3520-125	UL/NOM	90°	3000K	80	520W	Built-in	100-277V	No	Bronze
	FL-3520-126	UL/NOM	120°	3000K	80	520W	Built-in	100-277V	No	Bronze
	FL-3520-120	UL/NOM	60°	5000K	80	520W	Built-in	100-277V	No	Bronze
	FL-3520-127	UL/NOM	90°	5000K	80	520W	Built-in	100-277V	No	Bronze
	FL-3520-128	UL/NOM	120°	5000K	80	520W	Built-in	100-277V	No	Bronze

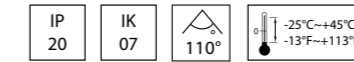
# BRIGHTSCAPE LED FLOOD LIGHT





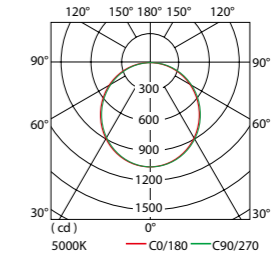
**FL-1060E1-30**

30W 100-277V 2550lm 85lm/W  
5000K Ra≥80

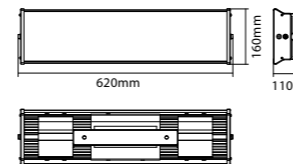


Material: Aluminum  
Driver: Built-in  
Weight: 3.9kg / 8.6lb

Housing Color: Silver  
Power Factor: ≥ 0.9  
Lifetime: ≥ 20,000hrs

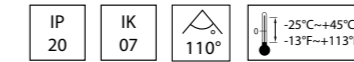


H(m)	E lx	D(cm)
1	902	293
2	226	586
3	100	880
4	56	1173
5	36	1465



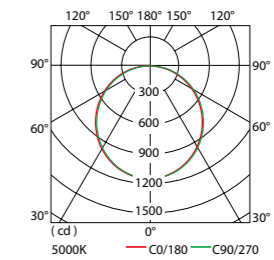
**FL-1060E1-40**

40W 100-277V 3320lm 83lm/W  
5000K Ra≥80



Material: Aluminum  
Driver: Built-in  
Weight: 3.9kg / 8.6lb

Housing Color: Silver  
Power Factor: ≥ 0.9  
Lifetime: ≥ 20,000hrs

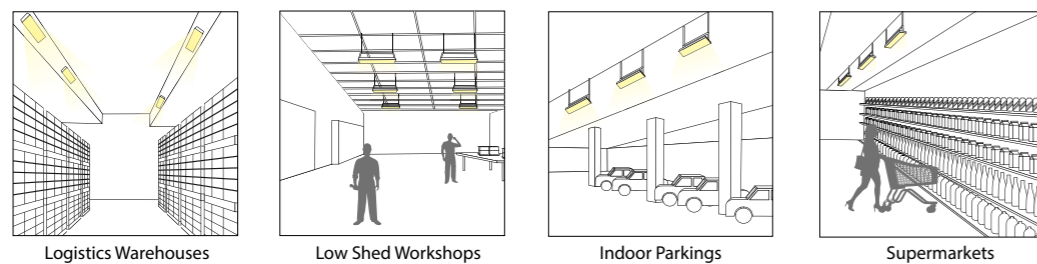


H(m)	E lx	D(cm)
1	1175	293
2	294	586
3	131	880
4	73	1173
5	47	1465

# BRIGHTSCAPE 1000 LED FLOOD LIGHT

<p><b>Big Light, Low Glare</b></p> <p>It is different from the common low wattage Flood Light in the market. The big diffuser covering the array of LEDs provides a better light distribution while effectively reducing glare and discomfort.</p>	<p><b>Wall Mounting</b></p> <p>This luminaire is good for general lighting installations, and is easily mounted on walls. It is also useful as supplementary lighting, such as over work surfaces - in a warehouse, factory, or wherever you like.</p>	<p><b>Energy Saving</b></p> <p>The combination of high-efficiency LED components with excellent whole system design has SONARAY LED lighting achieving energy savings of 40% - 80% compared with traditional lighting sources.</p>	<p><b>Complies With Multinational Certificationss</b></p> <p>Approved by recognized national laboratories for UL (USA and Canada), CE (Europe) and RCM (Australia).</p>	<p><b>Quality Core Components</b></p> <p>Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality SMD packages that have great quality and long life as backed by LM-80 and TM-21 reports. Quality inside the luminaires that shines from the outside.</p>	<p><b>Desirable CRI (Ra)</b></p> <p>With a CRI (Ra) of 80 SONARAY's BrightScape brings out the colors you want wherever and however you decide to install it.</p>
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**Applications:**



**Order Number**

Model No.	Order No.	Certifications	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Diffuser	Housing Color
FL-1060E1-30	FL-1060E1-30-111	UL	5000K	80	30W	Built-in	100-277V	N/A	Frosted	Silver
	FL-1060E1-30-112	CE/RCM	5000K	80	30W	Built-in	100-277V	N/A	Frosted	Silver
FL-1060E1-40	FL-1060E1-40-111	UL	5000K	80	40W	Built-in	100-277V	N/A	Frosted	Silver
	FL-1060E1-40-112	CE/RCM	5000K	80	40W	Built-in	100-277V	N/A	Frosted	Silver



# DELTA LED STREET LIGHT

Standard:



30W



60W



120W



200W

With **EIS<sup>®</sup>** (Easy Interchange System)



60W



120W



200W



60W



90W/120W



200W





## DELTA LED STREET LIGHT



### Excellent Heat Dissipation

The specially designed heat sink does not let dust easily collect, by also allowing more air to flow through it. The air flow also provides for greater heat dissipation, in turn, improving the performance of a long-lasting, durable luminaire.



### High Quality Driver

A combination of clever design and high-quality core electrical components, this specially designed driver creates roadway luminaires with long lifetimes and reduces the need for maintenance.



### Corrosion Resistance

By adopting dedicated processing treatment on heat sink and other parts, the luminaire has excellent anti-corrosive and UV-resistance.



### High Durability

A robust, protective design gives this luminaire an IP of 65 and the ability to handle harsh environments.



### Quality Core Components

Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality COB packages from CITELED – chipsets that have great quality and long life as backed by LM-80 and TM-21 reports. Quality inside the luminaires that shines on the outside.



### Approved By Recognized National Labs

Approved by recognized national laboratories for UL (USA and Canada) and NOM (Mexico).

# DELTA LED STREET LIGHT

## Removable Daylight Sensor



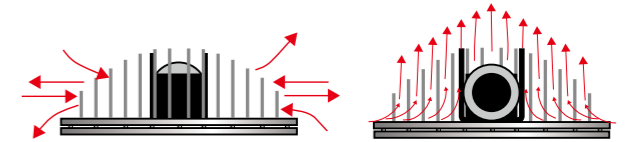
## EIS<sup>®</sup> Easy Interchange System

Our patented 'Plug and Use' Removable Power Supply makes maintenance simple and easy. It takes only five minutes or less to replace a driver unit - eliminating the need to call an electrician - greatly reducing maintenance costs and truly enhancing the lifetime of the fixture, all at minimum cost to the end user.



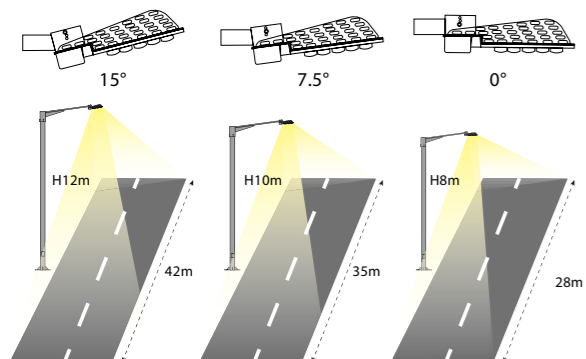
## Innovative Heat Sink Design

A heat sink designed with fins to increase total surface area, coupled with channels to allow for multidirectional air flow, greatly enhances the heat dissipation efficiency of the fixture. Additionally, the fins and channels combination allows for dust and water to clean off easily, avoiding accumulation effectively.



## Adjustable Angle

The luminaire's installation angle can be adjusted via the tenon mount. The tenon connector allows for the fixture to be installed at a few different angles to best adjust to the existing tenon and application requirements.



## Integrated Secondary Optics

Delta Street Lights use integrated secondary lenses to cover the respective LED packages, directing the angle and distribution of the light. Different lenses provide options for different beam angles.



**ST-4030**

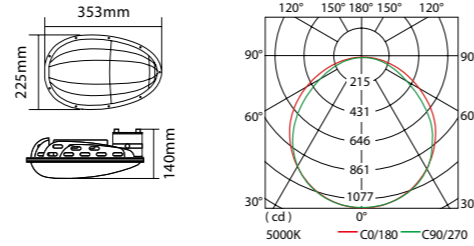
30W 100-277V 3150lm 105lm/W  
5000K Ra≥80

IP 65 IK 120°  
-25°C~+45°C  
-13°F~+113°F

3000K 5000K



Material: Aluminum Driver: Built-in  
Housing Color: Bronze Power Factor: ≥ 0.9  
Weight: 2kg / 4.41lb Lifetime: ≥ 50,000hrs



**ST-3200A**

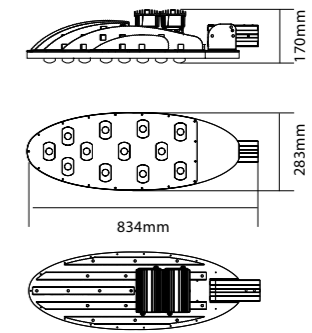
200W 100-277V 18,000lm 90lm/W  
5000K Ra≥80  $\Delta$ 145°(H) × 65°(V)

IP 65 IK 08  
-25°C~+45°C  
-13°F~+113°F

3000K 5000K



Material: Aluminum Power Factor: ≥ 0.9  
Driver: Built-in Lifetime: ≥ 50,000hrs  
Weight: 9.7kg / 21.38lb



**ST-3060A (With EIS<sup>o</sup>)**

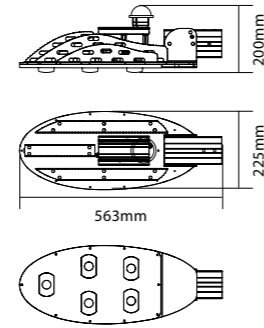
60W 100-277V 5400lm 90lm/W  
5000K Ra≥80  $\Delta$ 145°(H) × 65°(V)

IP 65 IK 08  
-25°C~+45°C  
-13°F~+113°F

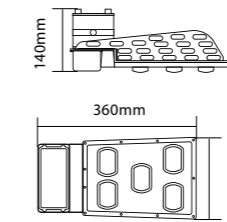
3000K 5000K



Material: Aluminum Driver: Built-in  
Housing Color: Bronze Power Factor: ≥ 0.9  
Weight: 3.9kg / 8.6lb Lifetime: ≥ 50,000hrs



**Standard: ST-2060**



**ST-2060 / ST-2060A**

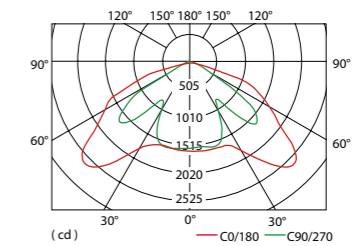
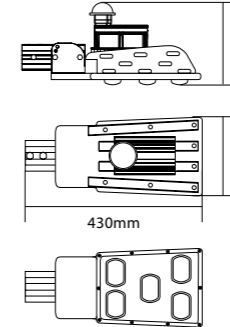
60W 100-277V 5340lm 90lm/W  
5000K Ra≥80  $\Delta$ 145°(H) × 65°(V)

IP 65 IK 08  
-25°C~+45°C  
-13°F~+113°F

3000K 5000K

Material: Aluminum Power Factor: ≥ 0.9  
Driver: Built-in Lifetime: ≥ 50,000hrs  
Weight: 2.8kg / 6.17lb (ST-2060)  
3.9kg / 8.6lb (ST-2060A)

**With EIS<sup>o</sup>: ST-2060A**



**ST-3120A/ST-3090A (With EIS<sup>o</sup>)**

120W 100-277V 10,800lm 90lm/W  
5000K Ra≥80  $\Delta$ 145°(H) × 65°(V)

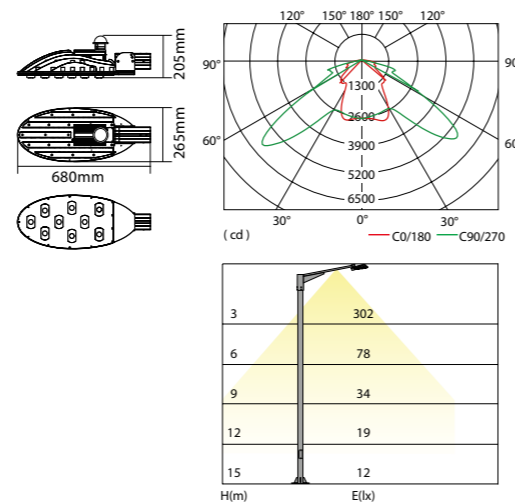
90W 100-277V 8100lm 90lm/W  
5000K Ra≥80  $\Delta$ 145°(H) × 65°(V)

IP 65 IK 08  
-25°C~+45°C  
-13°F~+113°F

3000K 5000K



Material: Aluminum Driver: Built-in  
Housing Color: Bronze Power Factor: ≥ 0.9  
Weight: 6.3kg / 13.89lb Lifetime: ≥ 50,000hrs

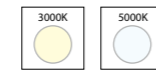


Standard: ST-2120



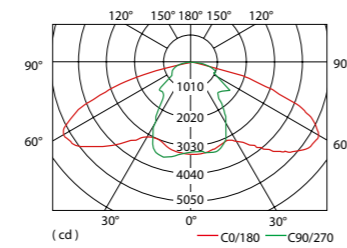
ST-2120 / ST-2120A

120W 100-277V 11,040lm 92lm/W  
5000K Ra≥80  $\Delta$ 145°(H) × 65°(V)

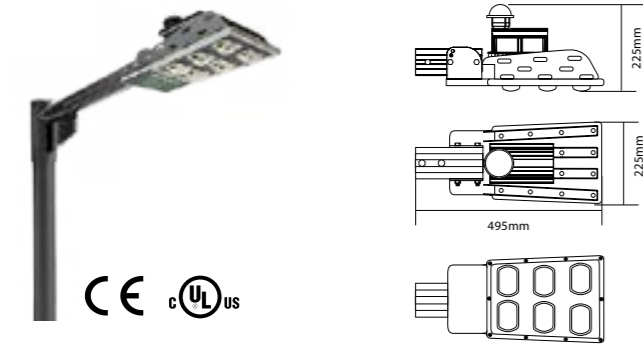


Material: Aluminum  
Housing Color: Bronze  
Weight: 4kg / 8.82lb (ST-2120)  
5.2kg / 11.46lb (ST-2120A)

Driver: Built-in  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



With EIS<sup>o</sup>: ST-2120A

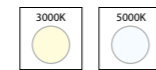


Standard: ST-2200



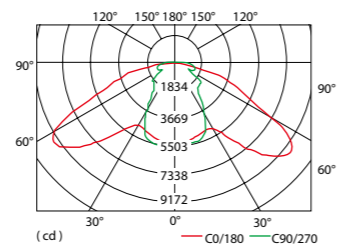
ST-2200 / ST-2200A

200W 100-277V 17,200lm 86lm/W  
5000K Ra≥80  $\Delta$ 145°(H) × 65°(V)

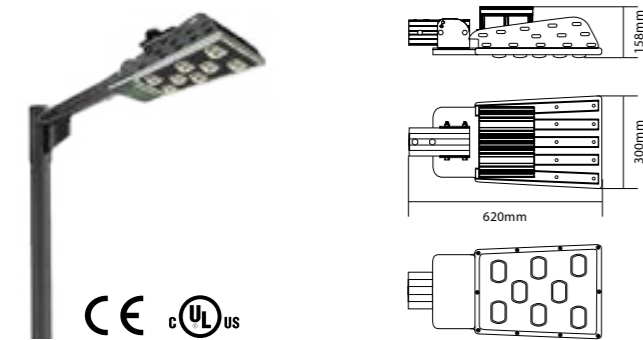


Material: Aluminum  
Housing Color: Bronze  
Weight: 7kg / 15.43lb (ST-2200)  
8.1kg / 11.86lb (ST-2200A)

Driver: Built-in  
Power Factor: ≥ 0.9  
Lifetime: ≥ 50,000hrs



With EIS<sup>o</sup>: ST-2200A



Order Number

Order No.	Certifications/ Listings	Beam Angle	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Housing Color
ST-4030	ST-4030-111	UL, DLC	120°	3000K	80	Built-in	100-277V	No	Grey
ST-4030	ST-4030-112	UL, DLC	120°	5000K	80	Built-in	100-277V	No	Grey
ST-4030	ST-4030-113	/	120°	3000K	80	Built-in	100-277V	No	Grey
ST-4030	ST-4030-114	/	120°	5000K	80	Built-in	100-277V	No	Grey
ST-2060	ST-2060-112	UL, DLC, NOM	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2060	ST-2060-113	UL, DLC, NOM	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2060	ST-2060-114	UL, DLC, NOM	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Bronze
ST-2060	ST-2060-115	UL, DLC, NOM	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Bronze
ST-2060	ST-2060-116	/	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2060	ST-2060-117	/	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2060A	ST-2060A-111	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2060A	ST-2060A-112	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2060A	ST-2060A-113	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Bronze
ST-2060A	ST-2060A-114	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Bronze
ST-2060A	ST-2060A-115	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2060A	ST-2060A-116	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2120	ST-2120-112	UL, DLC, NOM	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2120	ST-2120-113	UL, DLC, NOM	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2120	ST-2120-114	UL, DLC, NOM	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Bronze
ST-2120	ST-2120-115	UL, DLC, NOM	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Bronze
ST-2120	ST-2120-116	/	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2120	ST-2120-117	/	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2120A	ST-2120A-111	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2120A	ST-2120A-112	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2120A	ST-2120A-113	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Bronze
ST-2120A	ST-2120A-114	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Bronze
ST-2120A	ST-2120A-115	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2120A	ST-2120A-116	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2200	ST-2200-112	UL, DLC, NOM	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2200	ST-2200-113	UL, DLC, NOM	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2200	ST-2200-114	UL, DLC, NOM	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2200	ST-2200-115	UL, DLC, NOM	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2200	ST-2200-116	/	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2200	ST-2200-117	/	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2200A	ST-2200A-111	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2200A	ST-2200A-112	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-2200A	ST-2200A-113	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Bronze
ST-2200A	ST-2200A-114	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Bronze
ST-2200A	ST-2200A-115	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-2200A	ST-2200A-116	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-3060A	ST-3060A-111	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-3060A	ST-3060A-112	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-3060A	ST-3060A-113	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Bronze
ST-3060A	ST-3060A-114	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Bronze
ST-3060A	ST-3060A-115	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-3060A	ST-3090A-116	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-3090A	ST-3090A-111	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-3090A	ST-3090A-112	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-3090A	ST-3090A-113	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Bronze
ST-3090A	ST-3090A-114	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Bronze
ST-3090A	ST-3090A-115	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-3090A	ST-3090A-116	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-3120A	ST-3120A-111	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-3120A	ST-3120A-112	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-3120A	ST-3120A-113	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Bronze
ST-3120A	ST-3120A-114	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Bronze
ST-3120A	ST-3120A-115	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-3120A	ST-3120A-116	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-3200A	ST-3200A-111	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-3200A	ST-3200A-112	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey
ST-3200A	ST-3200A-113	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Bronze
ST-3200A	ST-3200A-114	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Bronze
ST-3200A	ST-3200A-115	UL	145° (H) × 65° (V)	3000K	80	Built-in	100-277V	No	Grey
ST-3200A	ST-3200A-116	UL	145° (H) × 65° (V)	5000K	80	Built-in	100-277V	No	Grey

# DELTA LED SOLAR LUMINAIRE

Solar LED Street Luminaire



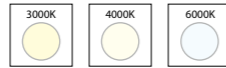
Integrated Solar LED Luminaire





SR-1020

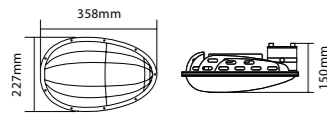
20W 6000K Ra≥80



Material: Aluminum  
 Lighting Duration: 30hrs\*1  
 Time to Full Charge: 6hrs\*2  
 Luminaire Weight: 2.58kg / 5.69lb  
 Solar Panel Weight: 3.5kg / 7.72lb  
 Battery Position: Built-in, on luminaire

Note:  
 \*1 The duration refers to the time the luminaire could work continuously with a fully charged battery.  
 \*2 The time refers to the amount of time in which the battery could become fully charged under effective illumination of the solar panel.

Accessory: Solar Panel



Battery Specifications

Nominal Capacity	10000mAh
Battery Cell	Lithium battery
Battery Life	3yrs
Cycle Life	1000 times
Maximum Charge/ Discharge Current	5000mA
Standard Discharge Current	1400mA
Nominal Voltage	14.8V
Max Charge Voltage	16.8V
Discharge Cut-off Voltage	12.0V
Overcharge Detection Voltage	4.25V±0.025V
Overdischarge Detection Voltage	2.5V±0.1V
Overdischarge Detection Current	7A~15A
Storage Temperature	-10°C ~ +45°C (Less than a month) -10°C ~ +35°C (Less than six months)

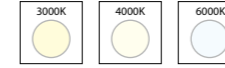
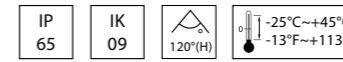
Solar Panel Specifications

Maximum Power (Pmax)	40Wp
Maximum Power Voltage (Vmp)	18V
Maximum Power Current (Imp)	2.23A
Open-Circuit Voltage (Voc)	22V
Short-Circuit Current (Isc)	2.46A
System Voltage	1000V
Tolerance	±3%
Solar Cell	36
Number of Cells	4x9
Dimension	641x544x25mm
Frame	Aluminum alloy
Surface Glass	3.2mm, Super White Tempered Glass



SR-1030

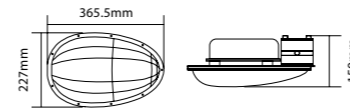
30W 6000K Ra≥80



Material: Aluminum  
 Lighting Duration: 30hrs\*1  
 Time to Full Charge: 6hrs\*2  
 Luminaire Weight: 2.59kg / 5.71lb  
 Solar Panel Weight: 4.7kg / 10.36lb  
 Battery Position: Built-in, on luminaire

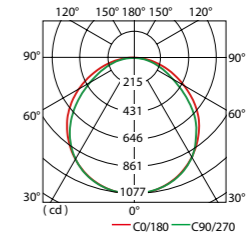
Note:  
 \*1 The duration refers to the time the luminaire could work continuously with a fully charged battery.  
 \*2 The time refers to the amount of time in which the battery could become fully charged under effective illumination of the solar panel.

Accessory: Solar Panel



Battery Specifications

Nominal Capacity	15000mAh
Battery Cell	Lithium battery
Battery Life	3yrs
Cycle Life	1000 times
Maximum Charge/ Discharge Current	5000mA
Standard Discharge Current	2000mA
Nominal Voltage	14.8V
Max Charge Voltage	16.8V
Discharge Cut-off Voltage	12.0V
Overcharge Detection Voltage	4.25V±0.025V
Overdischarge Detection Voltage	2.5V±0.1V
Overdischarge Detection Current	7A~15A
Storage Temperature	-10°C ~ +45°C (Less than a month) -10°C ~ +35°C (Less than six months)



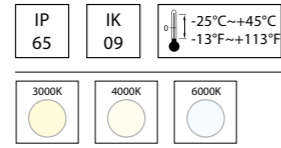
Solar Panel Specifications

Maximum Power (Pmax)	60Wp
Maximum Power Voltage (Vmp)	18V
Maximum Power Current (Imp)	3.33A
Open-Circuit Voltage (Voc)	21.4V
Short-Circuit Current (Isc)	3.78A
System Voltage	1000V
Tolerance	3±
Solar Cell	Mono125x78mm
Number of Cells	36 (4x9)
Dimension	765x550x35mm
Frame	Aluminum alloy
Surface Glass	3.2mm, High Transmittance, Low Iron, Tempered Glass



### SR-1048

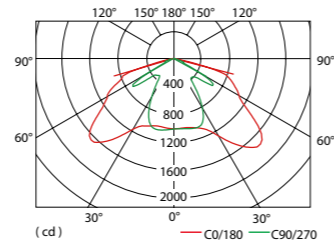
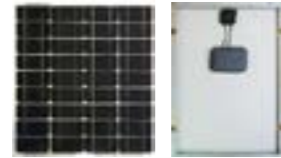
48W 6000K Ra≥80  
 $\triangle$  145°(H)×65°(V)



Luminaire Material: Aluminum  
 Lighting Duration: 26hrs\*1  
 Time to Full Charge: 9hrs\*2  
 Luminaire Weight: 2.5kg / 5.51lb  
 Solar Panel + Battery Weight: 11kg / 24.25lb  
 Battery Position: Built-in, on panel

Note:  
 \*1 The duration refers to the time the luminaire could work continuously with a fully charged battery.  
 \*2 The time refers to the amount of time in which the battery could become fully charged under effective illumination of the solar panel.

#### Accessory: Solar Panel



2	264
4	66
6	36
8	16
10	10
H(m)	E(lx)

#### Solar Panel Specifications

Maximum Power (Pmax)	90Wp
Maximum Power Voltage (Vmp)	18V
Maximum Power Current (Imp)	5.02A
Open-Circuit Voltage (Voc)	22V
Short-Circuit Current (Isc)	5.53A
System Voltage	1000V
Tolerance	±3%
Solar Cell	Mono(156x156)
Number of Cells	36 (125x125)
Dimension	1196x544x30mm
Frame	Aluminum alloy

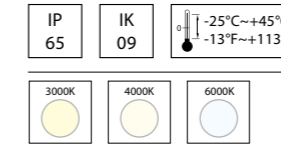
#### Battery Specifications

Nominal Capacity	14.8V 30Ah
Battery Cell	Lithium battery
Battery Life	3yrs
Cycle Life	1000 times
Maximum Charge/ Discharge Current	8000mA
Standard Discharge Current	2700mA
Nominal Voltage	14.8V
Max Charge Voltage	16.8V
Discharge Cut-off Voltage	12.0V
Overcharge Detection Voltage	4.25V±0.025V
Overdischarge Detection Voltage	2.5V±0.1V
Overdischarge Detection Current	7A~15A
Storage Temperature	-10°C ~ +45°C (Less than a month) -10°C ~ +35°C (Less than six months)



### SR-1080

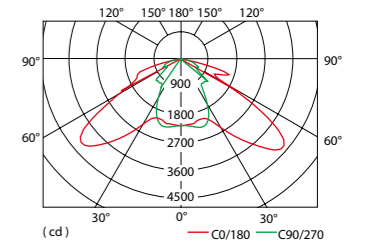
80W 6000K Ra≥80  
 $\triangle$  145°(H)×65°(V)



Luminaire Material: Aluminum  
 Lighting Duration: 32hrs\*1  
 Time to Full Charge: 8hrs\*2  
 Luminaire Weight: 4kg / 8.82lb  
 Solar Panel + Battery Weight: 17.2kg / 37.91lb  
 Battery Position: Built-in, on panel

Note:  
 \*1 The duration refers to the time the luminaire could work continuously with a fully charged battery.  
 \*2 The time refers to the amount of time in which the battery could become fully charged under effective illumination of the solar panel.

#### Accessory: Solar Panel



2	542
4	136
6	60
8	34
10	22
H(m)	E(lx)

#### Battery Specifications

Nominal Capacity	14.8V 30Ahx2
Battery Cell	Lithium battery
Battery Life	3yrs
Cycle Life	1000 times
Maximum Charge/ Discharge Current	8A
Standard Discharge Current	5A
Nominal Voltage	14.8V
Max Charge Voltage	16.8V
Discharge Cut-off Voltage	12.0V
Overcharge Detection Voltage	4.25V±0.025V
Overdischarge Detection Voltage	2.5V±0.1V
Overdischarge Detection Current	7A~15A
Storage Temperature	-10°C ~ +45°C (Less than a month) -10°C ~ +35°C (Less than six months)

#### Solar Panel Specifications

Maximum Power (Pmax)	150Wp
Maximum Power Voltage (Vmp)	18V
Maximum Power Current (Imp)	8.34A
Open-Circuit Voltage (Voc)	22V
Short-Circuit Current (Isc)	9.18A
System Voltage	1000V
Tolerance	±3%
Solar Cell	Mono(156x156)
Number of Cells	36 (4x9)
Dimension	1480x670x97mm
Frame	Aluminum alloy





SR-1004

4W 6000K Ra≥80

IP 65 IK 09 120°

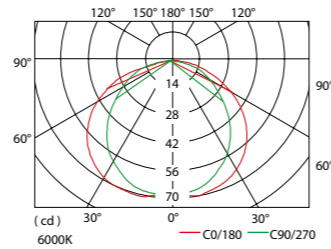
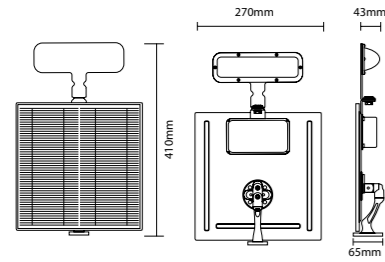
Temperature: -42°C ~ +50°C / -43.6°F ~ +122°F

Color Temperature: 3000K, 4000K, 6000K

Lighting Duration: 15hrs\*1  
Time to Full Charge: 7hrs\*2

Battery: 7.4V 5Ah  
Solar Panel: 10W  
Luminaire Material: Aluminum  
Weight: 1.65kg / 3.64lb

Note:  
\*1 The duration refers to the time the luminaire could work continuously with a fully charged battery.  
\*2 The time refers to the amount of time in which the battery could become fully charged under effective illumination of the solar panel.



H(m)	E(k)	D(cm)
1	65	274
2	16	547
3	7	821
4	4	1195
5	3	1369

Storage Temperature	-10°C ~ +45°C (Less than a month)
	-10°C ~ +35°C (Less than six months)

Battery Specifications

Nominal Capacity	5000mAh
Cycle Life	1000 times
Maximum Charge/ Discharge Current	2500mA
Standard Discharge Current	540mA
Nominal Voltage	7.4V
Max Charge Voltage	8.4V
Discharge Cut-off Voltage	6.0V
Overcharge Detection Voltage	4.25V±0.05V
Overdischarge Detection Voltage	3.0V±0.05V



SR-1010

10W 6000K Ra≥80

IP 65 IK 09 120°

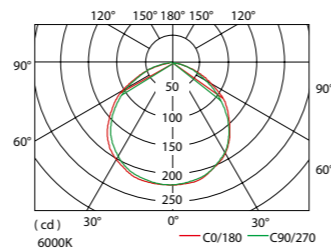
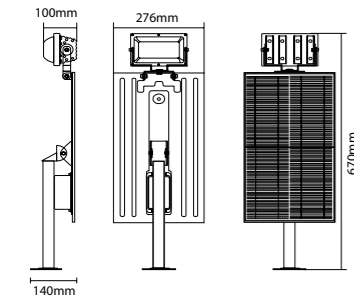
Temperature: -42°C ~ +50°C / -43.6°F ~ +122°F

Color Temperature: 3000K, 4000K, 6000K

Lighting Duration: 17hrs\*1  
Time to Full Charge: 7~8hrs\*2

Battery: 7.4V 15Ah  
Solar Panel: 20W  
Luminaire Material: Aluminum  
Weight: 4.7kg / 10.36lb

Note:  
\*1 The duration refers to the time the luminaire could work continuously with a fully charged battery.  
\*2 The time refers to the amount of time in which the battery could become fully charged under effective illumination of the solar panel.



H(m)	E(k)	D(cm)
1	213	284
2	53	567
3	24	851
4	13	1134
5	9	1418

Storage Temperature	-10°C ~ +45°C (Less than a month)
	-10°C ~ +35°C (Less than six month)

Battery Specifications

Nominal Capacity	15000mAh
Cycle Life	1000 times
Maximum Charge/ Discharge Current	7500mA
Standard Discharge Current	1350mA
Nominal Voltage	7.4V
Max Charge Voltage	8.4V
Discharge Cut-off Voltage	6.0V
Overcharge Detection Voltage	4.25V±0.05V
Overdischarge Detection Voltage	3.0V±0.05V

Order Number

Model No.	Order No.	Certifications	CCT	CRI (Ra)	System Watts	Dimming	Housing Color
SR-1004	SR-1004-111	N/A	6000K	80	4W (Panel: 10W)	No	Grey
	SR-1004-112	N/A	4000K	80	4W (Panel: 10W)	No	Grey
	SR-1004-113	N/A	3000K	80	4W (Panel: 10W)	No	Grey
SR-1010	SR-1010-111	N/A	6000K	80	10W (Panel: 20W)	No	Grey
	SR-1010-112	N/A	4000K	80	10W (Panel: 20W)	No	Grey
	SR-1010-113	N/A	3000K	80	10W (Panel: 20W)	No	Grey
SR-1020	SR-1020-111	N/A	6000K	80	20W (Panel: 40W)	No	Grey
	SR-1020-112	N/A	4000K	80	20W (Panel: 40W)	No	Grey
SR-1030	SR-1030-111	N/A	6000K	80	30W (Panel: 60W)	No	Grey
	SR-1030-112	N/A	4000K	80	30W (Panel: 60W)	No	Grey
SR-1048	SR-1040-111	N/A	5000K	80	48W (Panel: 90W)	No	Grey
SR-1080	SR-1080-111	N/A	5000K	80	80W (Panel: 150W)	No	Grey

# LED PANEL

DELTA LED Panel Light



40W



80W



# DELTA LED PANEL



**Quality Core Components**

Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality SMD packages – chipsets that have great quality and long life as backed by LM-80 reports.



**Desirable CRI (Ra)**

With a CRI (Ra) of 80, SONARAY's Panel Light brings out the colors you want, from your office desk to the conference room and everywhere in between.



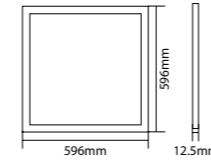
**Emergency Illumination**

With an optional emergency battery back-up for up to one hour, the Panel Light can handle sudden power outages.



**Energy Saving**

The combination of high-efficacy LED components with excellent whole system design has SONARAY LED lighting achieving energy savings of 60% compared with traditional lighting sources.

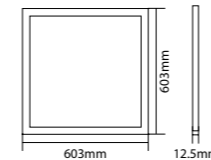
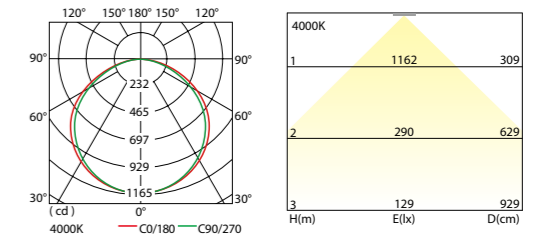


**MB-2040A**

40W 100-277V 3200lm 80lm/W  
4000K Ra≥85



Material: Aluminum+PC  
Driver: External  
Power Factor: ≥ 0.9  
Weight: 3.7kg / 8.16lb  
Lifetime: ≥ 50,000hrs

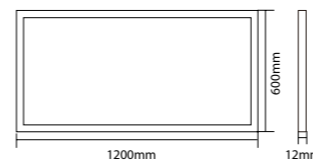


**MB-2040AL**

40W 100-277V 3200lm 80lm/W  
4000K Ra≥85



Material: Aluminum+PC  
Driver: External  
Power Factor: ≥ 0.9  
Weight: 3kg / 6.61lb  
Lifetime: ≥ 50,000hrs

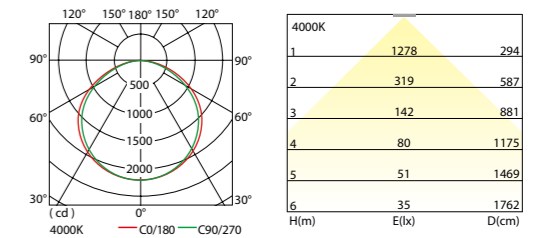


**MB-2080C**

80W 100-277V 6400lm 80lm/W  
4000K Ra≥85



Material: Aluminum+PC  
Driver: External  
Power Factor: ≥ 0.9  
Weight: 7.4kg / 16.31lb  
Lifetime: ≥ 50,000hrs



**Order Number**

Model No.	Order No.	Certifications	CCT	CRI (Ra)	System Watts	Driver	Input Voltage	Dimming	Beam Angle	Diffuser	Housing Color
MB-2040A	MB-2040A-111	UL (Driver)	4000K	80	40W	External	100-277	/	120°	Milky	White
	MB-2040A-112	UL (Driver)	4000K	80	40W	External	100-277	/	120°	Milky	White
MB-2040AL	MB-2040AL-111	UL (Driver)	4000K	80	40W	External	100-277	/	120°	Milky	White
MB-2080C	MB-2080C-111	UL (Driver)	4000K	80	80W	External	100-277	/	120°	Milky	White
	MB-2080C-112	UL (Driver)	4000K	80	80W	External	100-277	/	120°	Milky	White
MB-2080CL	MB-2080C-112	UL (Driver)	4000K	80	80W	External	100-277	/	120°	Milky	White

# LED TUBE



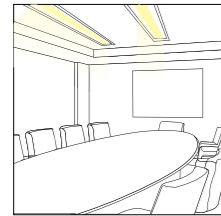
LECKO LED T8 TUBE  
Internal Driver Version



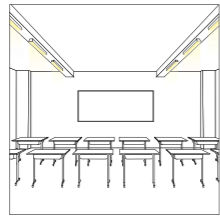
# LED TUBE

Sonaray LED tubes bring our customers outstanding, naturally white light, as well as achieve high energy savings.

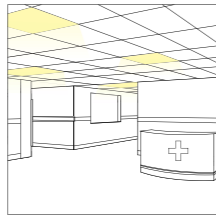
## Applications:



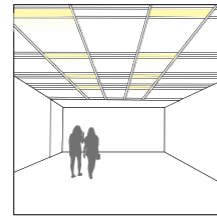
Offices, Meeting rooms



Classrooms



Hospitals



Walkways



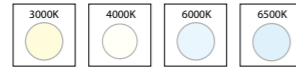
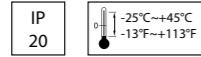
LECKO LED T8 TUBE 1.2m

LECKO LED T8 TUBE 0.6m



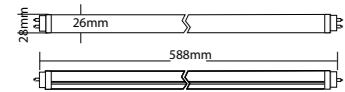
**T8-2010C**

10W 100-277V 950lm 95lm/W  
6000K Ra≥80 100°x140°



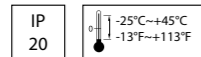
Material: Aluminum+PC  
Driver: Built-in  
Power Factor: ≥ 0.9  
THD: <10%

Cover: Frosted  
Lamp Base: G13  
Weight: 0.25kg / 0.55lb  
Lifetime: ≥ 40,000hrs



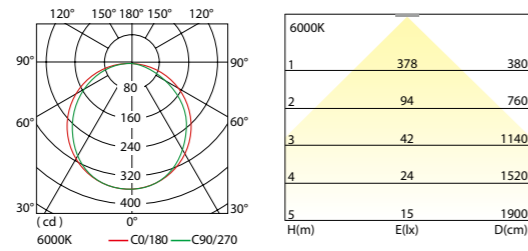
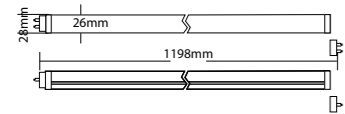
**T8-2016B**

16W 100-277V 1520lm 95lm/W  
6000K Ra≥70 100°x140°



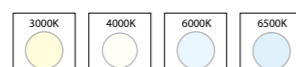
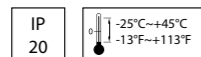
Material: Aluminum+PC  
Driver: Built-in  
Power Factor: ≥ 0.9  
THD: <10%

Cover: Frosted  
Lamp Base: G13  
Weight: 0.4kg / 0.88lb  
Lifetime: ≥ 40,000hrs



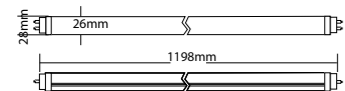
**T8-2021C**

21W 100-277V 1995lm 95lm/W  
6000K Ra≥80 100°x140°



Material: Aluminum+PC  
Driver: Built-in  
Power Factor: ≥ 0.9  
THD: <10%

Cover: Frosted  
Lamp Base: G13  
Weight: 0.4kg / 0.88lb  
Lifetime: ≥ 40,000hrs



Order Number - LECKO LED T8 Tube (Internal Driver Version)

Model No.	Order No.	Certifications / Listing	Dim. (mm)	CCT	CRI	System Watts	Driver	Input Voltage	Dimming	Lampshade	Lamp Base
T8-2010A	T8-2010A-111	ETL	588 (L)	6500K	80	10W	Built-in	100-277V	N/A	Frosted	G13
	T8-2010C-111	ETL/NOM	588 (L)	6000K	80	10W	Built-in	100-277V	N/A	Frosted	G13
T8-2010C	T8-2010C-112	ETL/NOM	588 (L)	4000K	80	10W	Built-in	100-277V	N/A	Frosted	G13
	T8-2010C-113	ETL/NOM	588 (L)	3000K	80	10W	Built-in	100-277V	N/A	Frosted	G13
T8-2016A	T8-2016A-111	ETL	1198 (L)	6500K	80	16W	Built-in	100-277V	N/A	Frosted	G13
	T8-2016B-111	ETL/NOM	1198 (L)	6000K	70	16W	Built-in	100-277V	N/A	Frosted	G13
T8-2016B	T8-2016B-112	ETL/NOM	1198 (L)	3000K	80	16W	Built-in	100-277V	N/A	Frosted	G13
T8-2021A	T8-2021A-111	ETL	1198 (L)	6500K	80	21W	Built-in	100-277V	N/A	Frosted	G13
	T8-2021C-111	ETL/NOM	1198 (L)	6000K	80	21W	Built-in	100-277V	N/A	Frosted	G13
T8-2021C	T8-2021C-112	ETL/NOM	1198 (L)	4000K	80	21W	Built-in	100-277V	N/A	Frosted	G13
	T8-2021C-113	ETL/NOM	1198 (L)	3000K	80	21W	Built-in	100-277V	N/A	Frosted	G13

# NITOR LED DOWNLIGHT

NITOR<sup>2</sup>





5"



6"

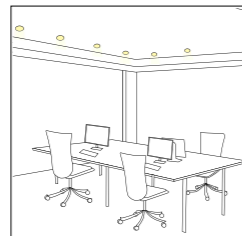


8"

## NITOR LED DOWNLIGHT

The full range of NITOR downlights help our customers create a desirable atmosphere with naturally white light. Their elegant appearance is another reason that makes them ideas for a variety of indoor applications.

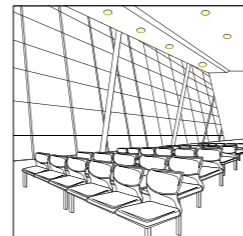
### Applications:



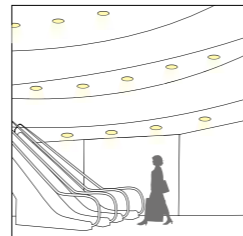
Offices, Meeting rooms



Bank Counters



Airport Terminals



Shopping Malls

### NITOR<sup>2</sup>

5" 10/21W	6" 10/21W	8" 21W	10" 21W
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**DL-2005E1-10**  
 10W 100-277V 900lm 90lm/W  
 5000K Ra≥80

IP 20 100° -25°C~+45°C  
 -13°F~+113°F

5" 165mm

3000K 5000K

**UL** US

Material: Aluminum      Housing Color: White  
 Driver: Built-in      Power Factor: ≥ 0.9  
 Weight: 0.8kg / 1.76lb      Lifetime: ≥ 40,000hrs

H(m)	E(lx)	D(cm)
1	320	230
2	80	468
3	35	700
4	20	903
5	10	1425

**DL-2005E1-21**  
 21W 100-277V 1800lm 86lm/W  
 5000K Ra≥80

IP 20 100° -25°C~+45°C  
 -13°F~+113°F

5" 165mm

3000K 5000K

**UL** US

Material: Aluminum      Housing Color: White  
 Driver: Built-in      Power Factor: ≥ 0.9  
 Weight: 0.9kg / 1.98lb      Lifetime: ≥ 40,000hrs

H(m)	E(lx)	D(cm)
1	649	227
2	162	454
3	72	681
4	40	908
5	25	1136

**DL-2006E1-10**  
 10W 100-277V 900lm 90lm/W  
 5000K Ra≥80

IP 20 100° -25°C~+45°C  
 -13°F~+113°F

6" 180mm

3000K 5000K

**UL** US

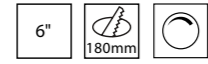
Material: Aluminum      Housing Color: White  
 Driver: Built-in      Power Factor: ≥ 0.9  
 Weight: 0.8kg / 1.76lb      Lifetime: ≥ 40,000hrs

H(m)	E(lx)	D(cm)
1	320	233
2	80	468
3	35	701
4	20	935
5	10	1169

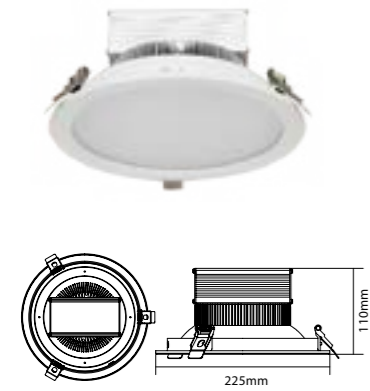
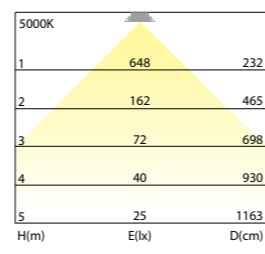
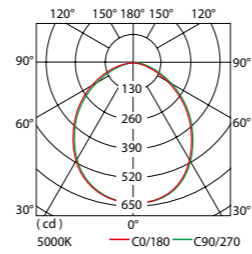


**DL-2006E1-21**

21W 100-277V 1806lm 86lm/W  
5000K Ra≥80

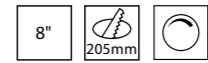


Material: Aluminum      Housing Color: White  
Driver: Built-in          Power Factor: ≥ 0.9  
Weight: 0.9kg / 1.98lb      Lifetime: ≥ 40,000hrs

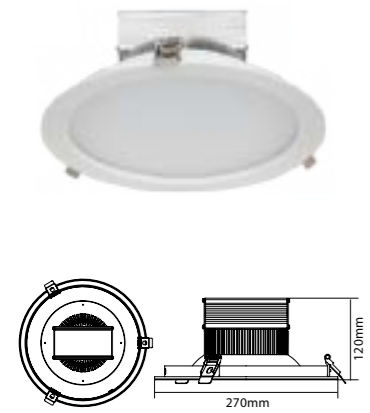
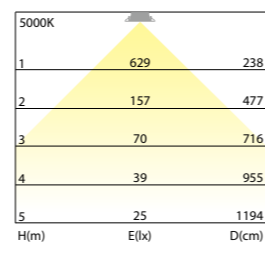
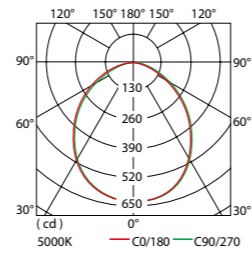


**DL-2008E1-21**

21W 100-277V 1722lm 82lm/W  
5000K Ra≥80

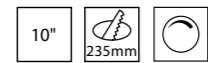


Material: Aluminum      Housing Color: White  
Driver: Built-in          Power Factor: ≥ 0.9  
Weight: 1.1kg / 2.43lb      Lifetime: ≥ 40,000hrs

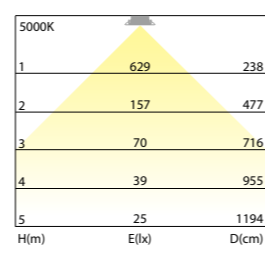
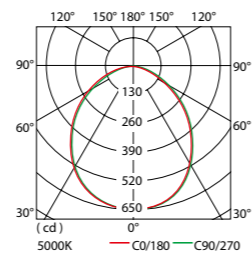


**DL-2010E1-21**

21W 100-277V 1764lm 84lm/W  
5000K Ra≥80



Material: Aluminum      Housing Color: White  
Driver: Built-in          Power Factor: ≥ 0.9  
Weight: 1.2kg / 2.65lb      Lifetime: ≥ 40,000hrs



Order Number - NITOR<sup>2</sup> LED Downlight

Model No.	Order No.	Certifications	Production Specification	CCT	CRI	System Watts	Driver	Input Voltage	Dimming	Beam Angle	Dimension (inch)	Optics
DL-2005B1-10	DL-2005B1-111	UL	EU	3000K	80	10W	Internal	200-240/277V	N/A	100°	5	Frosted
DL-2005E1-10	DL-2005E1-111	UL	EU	5000K	80	10W	Internal	200-240/277V	N/A	100°	5	Frosted
DL-2005B1-21	DL-2005B1-117	N/A	EU	3000K	80	21W	Internal	100-240V	N/A	100°	5	Frosted
DL-2005E1-21	DL-2005E1-117	N/A	EU	5000K	80	21W	Internal	100-240V	N/A	100°	5	Frosted
DL-2006B1-10	DL-2006B1-111	UL	EU	3000K	80	10W	Internal	200-240/277V	N/A	100°	6	Frosted
DL-2006E1-10	DL-2006E1-111	UL	EU	5000K	80	10W	Internal	200-240/277V	N/A	100°	6	Frosted
DL-2006B1-21	DL-2006B1-117	N/A	EU	3000K	80	21W	Internal	100-240V	N/A	100°	6	Frosted
DL-2006C1-21	DL-2006C1-116	N/A	EU	4000K	80	21W	Internal	100-240/277V	N/A	100°	6	Frosted
DL-2006E1-21	DL-2006E1-117	N/A	EU	5000K	80	21W	Internal	100-240V	N/A	100°	6	Frosted
DL-2008B1-21	DL-2008B1-115	N/A	EU	3000K	80	21W	Internal	100-240V	N/A	100°	8	Frosted
DL-2008E1-21	DL-2008E1-117	N/A	EU	5000K	80	21W	Internal	100-240V	N/A	100°	8	Frosted
DL-2010B1-21	DL-2010B1-114	N/A	EU	3000K	80	21W	Internal	100-240V	N/A	100°	10	Frosted
DL-2010E1-21	DL-2010E1-117	N/A	EU	5000K	80	21W	Internal	100-240V	N/A	100°	10	Frosted
DL-2005B1-10	DL-2005B1-113	N/A	EU	3000K	80	10W	External	200-240V	Yes	100°	5	Frosted
DL-2005E1-10	DL-2005E1-113	N/A	EU	5000K	80	10W	External	200-240V	Yes	100°	5	Frosted
DL-2005B1-21	DL-2005B1-114	N/A	EU	3000K	80	21W	External	200-240V	Yes	100°	5	Frosted
DL-2005E1-21	DL-2005E1-114	N/A	EU	5000K	80	21W	External	200-240V	Yes	100°	5	Frosted
DL-2006B1-10	DL-2006B1-113	N/A	EU	3000K	80	10W	External	200-240V	Yes	100°	6	Frosted
DL-2006E1-10	DL-2006E1-113	N/A	EU	5000K	80	10W	External	200-240V	Yes	100°	6	Frosted
DL-2006B1-21	DL-2006B1-114	N/A	EU	3000K	80	21W	External	200-240V	Yes	100°	6	Frosted
DL-2006E1-21	DL-2006E1-114	N/A	EU	5000K	80	21W	External	200-240V	Yes	100°	6	Frosted
DL-2008B1-21	DL-2008B1-112	N/A	EU	3000K	80	21W	External	200-240V	Yes	100°	8	Frosted
DL-2008E1-21	DL-2008E1-115	N/A	EU	5000K	80	21W	External	200-240V	Yes	100°	8	Frosted
DL-2010B1-21	DL-2010B1-112	N/A	EU	3000K	80	21W	External	200-240V	Yes	100°	10	Frosted
DL-2010E1-21	DL-2010E1-115	N/A	EU	5000K	80	21W	External	200-240V	Yes	100°	10	Frosted

Note: Each order number covers luminaire and driver.

The logo for DASCOM is displayed in a bold, blue, sans-serif font. The letter 'A' is replaced by a red triangle pointing upwards. The logo is set against a white background with a subtle shadow effect.

**DASCOM**

## ABOUT US

DASCOM Holdings maintains as a core company value that successful businesses have an ethical obligation to give back to the community. DASCOM looks to do this by investing back into its technology to further improve upon it and, in turn, further improving the capabilities and efficacy of surrounding businesses and public sector organizations alike; as well as contributing to the overall living standards of the general public.

DASCOM Holdings has a long standing, close business partnership with global Japanese corporation Citizen Electronics Co., Ltd.. This close relationship – with Citizen's extensive experience in developing durable, reliable LED chipsets, coupled with both DASCOM's decades of worldwide sales and service, as well as years of R&D experience in electronics and mechanics – is what led to the birth of DASCOM LED Lighting. DASCOM LED Lighting was established in 2008 and was subsequently registered under the brand name SONARAY LED Lighting.

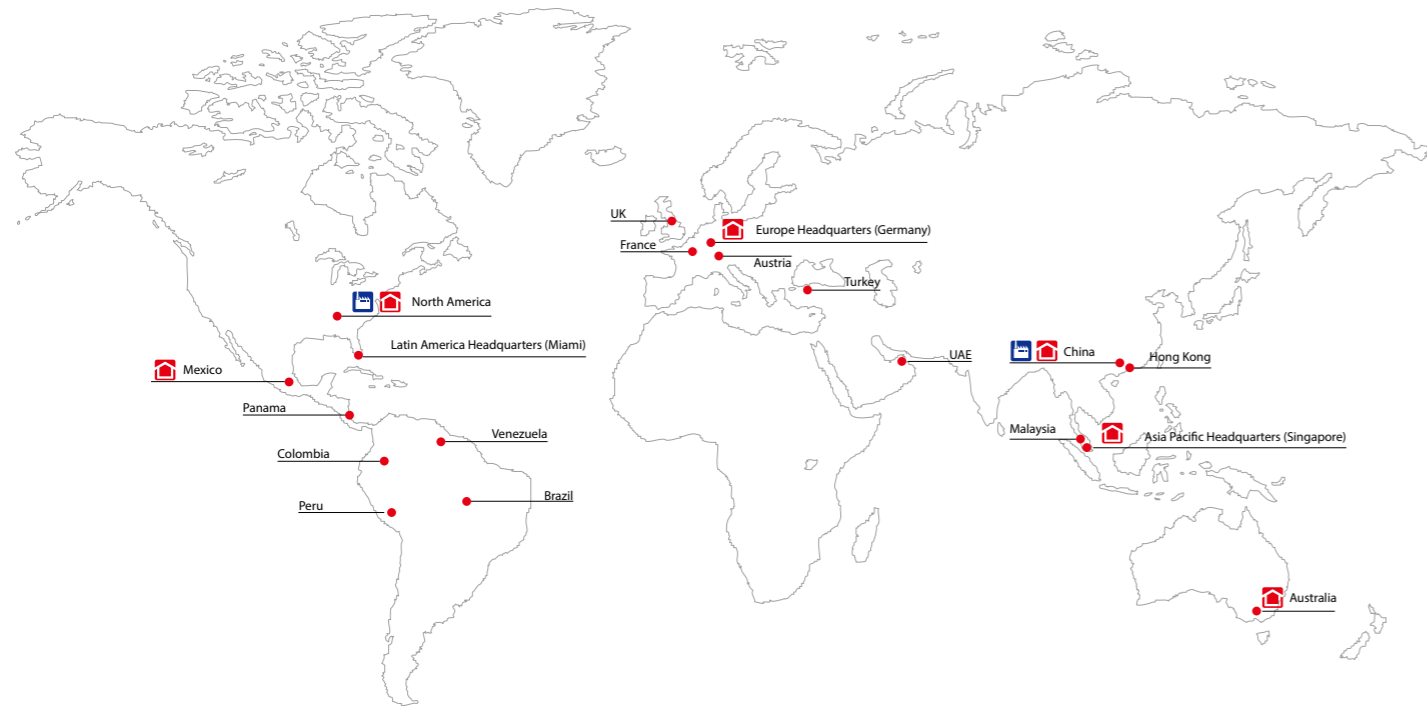
A combination of the Spanish word "soñar," which means "to dream," and the English word "ray," which means a "narrow beam of light," SONARAY is a name meant to inspire. Meant to inspire big dreams as well as allude to acute focus to achieve those very dreams.

SONARAY is dedicated exclusively to the development and production of the highest quality LED lighting products. This focus enables us to concentrate our attention and resources on monitoring and continually improving our products, in order that they not just meet, but excel above regulatory and performance requirements and those of clients' expectations. The reliability of, and economic return from, SONARAY products and services are recognized the world round.

SONARAY LED Lighting is another – and the largest – effort in DASCOM's endeavor towards a greener, more sustainable world.

## GLOBAL FACILITIES

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Vic 3026,  
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Tel: +61-3-97490001



## Catalogue



## Brochures



## Lighting Solutions: Applications



## Case Studies

