

Product advantages of **LED Tubes**

- **Massive reduction of current consumption – considerable cost savings!**
- Due to the reduced current consumption **considerably decreased output of CO₂ emissions!**
- Instant fit, replace traditional fluorescent (T5 or T8) tube directly, **no need rewire of fitting (just take out fluorescent tube and insert led tube)**.
- Compatible electronics ballast (HF Ballast), magnetic ballast and AC input directly, and also it is compatible AC one side input or two side input with Pin Safety technology, without change any wires inside the fixtures, compatible with all kinds of ballast.
- **Guaranteed lifetime 5 years.**
- All necessary certifications (i.e. **CE, RoHS**) available.
- **Guaranteed energy saving: -70% with more luminosity.**
- **Maintenance costs (tubes replacing) disappearing.**
- **Efficiency >85%, Power Factor up to 0,95** (without ballast).
- **Top of the range LED (160lm/W)** only from leading suppliers.
- **Straightforward waste disposal, as no harmful or toxic substances** are used according to RoHS European specs.
- T5 and T8 with all standard lengths available.
- 40% less temperature compared with a fluorescent tube.
- **No flickering, no problems with cold starting.**
- Light range from 3000 – 8000K, special LED for meat and vegetables.
- Almost unbreakable (safety at work).
- Constant luminosity irrespective of the outside temperature (cold!).
- **No UV-light (important for outdoor - no insects and hospitals).**
- **Short-term return of investment (typically 6 to 12 months when used 18 hours per day).**

WEST EUROPEAN BRANCH

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Certifications

All our products are certified according the following specs:

EN 55015:2006 + A9:2009

EN 61000-3-2:2006

EN 61000-3-3:2008

EN 61547:2009

EN 60598-1:2008 + A11:2009

EN 60825-1:2007

Required for **CE** labelling.

And fulfil

The RoHS regulation (EU Directive 2002/95/EC) Restriction of Hazardous Substances Directive or RoHS

RoHS restricts the use of the following six substances:

1. [Lead](#)
2. [Mercury](#)
3. [Cadmium](#)
4. [Hexavalent chromium](#) (Cr⁶⁺)
5. [Polybrominated biphenyls](#) (PBB)
6. [Polybrominated diphenyl ether](#) (PBDE)

PBB and PBDE are flame retardants used in several plastics.

Our products can use the normal waste disposal as they don't have any toxic substance.

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T5 LED tube

Plug & Play LED T5 TUBE

Not need rewiring, Just Plug and Play



Compatible with electronics ballast

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3in1 LED T5 Tubes:

- **Compatibility of electronics ballast;**
- **Compatibility of magnetic ballast;**
- **Compatibility of AC input directly;**
- **Compatibility of One side and Two side input without need change the wiring of the existing fixture ;**

The 3in1 LED T5 Tubes is new generation of the T5 LED tubes, it is compatible electronics ballast (HF Ballast), magnetic ballast and AC input directly, and also it is compatible AC one side input or two side input with Pin Safety technology, without change any wires inside the fixtures. It is the simplicity and ultra-efficiency LED T5 tubes.

3in1 LED tubes became the quickest and easiest LED tubes to upgrade to LED technology for immediate energy savings over a long and reliable lifetime.

Features:

1. Instant fit, replace traditional fluorescent T5 tube directly, no need rewire.
2. Compatible for both Magnetic ballast and Electronic Ballast, compatible with all kinds of ballast.
3. CE Rohs Certification Approval.
4. SMD2835 led chip, 160Lm/w, CRI>80.
5. Constant current and Isolated power supply PF>0.9.
6. Thickened 0.9mm aluminium radiator for heat dissipation.
7. Long Lifespan 50,000 hours, 5 years warranty.
8. Energy saving up to 80%, inner power efficiency more than 88%, Minimum maintenance costs.

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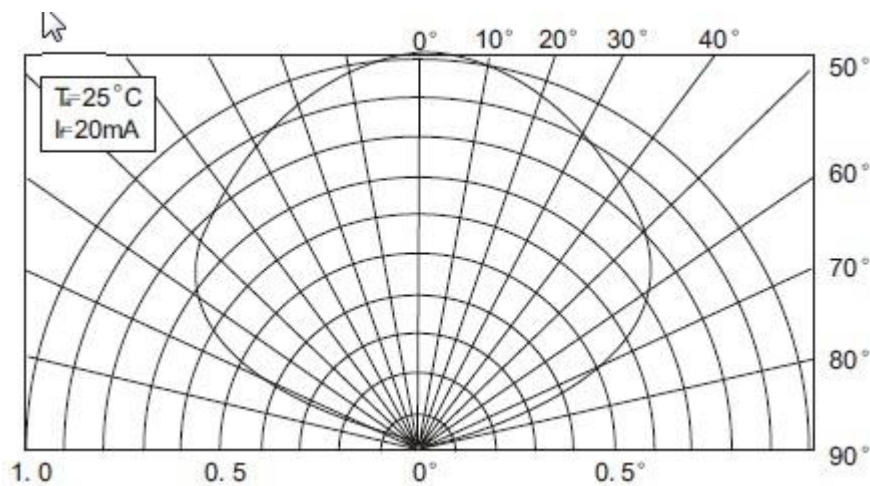
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Part No.	Lenght	Voltage	Wattage	Lumen	CCT	PF	RA
LT-T5-AFH-206A	549mm	AC100-240V	6W	960LM	3000K/4000K/5000K	>0.9	>80
LT-T5-AFH-209A	549mm	AC100-240V	9W	1440LM	3000K/4000K/5000K	>0.9	>80
LT-T5-AFH-312A	849mm	AC100-240V	12W	1920LM	3000K/4000K/5000K	>0.9	>80
LT-T5-AFH-412A	1149mm	AC100-240V	12W	1920LM	3000K/4000K/5000K	>0.9	>80
LT-T5-AFH-418A	1149mm	AC100-240V	18W	2880LM	3000K/4000K/5000K	>0.9	>80
LT-T5-AFH-420A	1149mm	AC100-240V	18W	3200LM	3000K/4000K/5000K	>0.9	>80
LT-T5-AFH-520A	1449mm	AC100-240V	20W	3200LM	3000K/4000K/5000K	>0.9	>80
LT-T5-AFH-525A	1449mm	AC100-240V	25W	4000LM	3000K/4000K/5000K	>0.9	>80
LT-T5-AFH-530A	1449mm	AC100-240V	30W	4650LM	3000K/4000K/5000K	>0.9	>80

Note: The above parameters are for reference only.

Radiation degrees:



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T8 LED tube



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3in1 LED T8 Tubes

- **Compatibilty of electronics ballast;**
- **Compatibity of magnetic ballast;**
- **Compatibity of AC input directly;**
- **Compatibity of One side and Two side input without need change the wiring of the existing fixture ;**

The 3in1 LED T8 Tubes is new generation of the T8 LED tubes, it is compatible electronics ballast (HF Ballast), magnetic ballast and AC input directly, and also it is compatible AC one side input or two side input with Pin Safety technology, without change any wires inside the fixtures. It is the simplicity and ultra-efficiency LED T8 tubes.

3in1 LED tubes became the quickest and easiest LED tubes to upgrade to LED technology for immediate energy savings over a long and reliable lifetime.

Features:

1. Compatible with ballast, instant fit, replace traditional fluorescent T8 tube directly, no need rewire.
2. Compatible for both Magnectic ballast and Electronic Ballast, compatible with all kinds of ballast.
3. CE Rohs Certification Approval.
4. SMD2835 led chip, 160Lm/w, CRI>80.
5. Constant current and Isolated power supply PF>0.9.
6. Thickened 0.9mm aluminum radiator for heat dissipation.
7. Long Lifespan 50,000 hours, 5 years warranty.
8. Energy saving up to 80%, inner power efficiency more than 88%, Minimum maintenance costs.

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Part No.	Lenght	Voltage	Wattage	Lumen	CCT	PF	RA
LT-T8-AFH-209A	60cmt	AC100-240V	9W	1260LM	3000K/4000K/5000K	>0.9	>80
LT-T8-AFH-312A	90cm	AC100-240V	12W	1680LM	3000K/4000K/5000K	>0.9	>80
LT-T8-AFH-418A	120cm	AC100-240V	18W	2890LM	3000K/4000K/5000K	>0.9	>80
LT-T8-AFH-420A	120cm	AC100-240V	20W	3200LM	3000K/4000K/5000K	>0.9	>80
LT-T8-AFH-520A	150cm	AC100-240V	20W	3200LM	3000K/4000K/5000K	>0.9	>80
LT-T8-AFH-525A	150cm	AC100-240V	25W	4000LM	3000K/4000K/5000K	>0.9	>80
LT-T8-AFH-530A	150cm	AC100-240V	30W	4650LM	3000K/4000K/5000K	>0.9	>80

Note: The above parameters are for reference only.

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LED Bay Light Fixture Product Manual

Up to 15000 lumen for 18m high-mount applications



Vabaõhumuseumi tee 2A-14, 13522 Tallinn, Estonia

1. Product Description

LED bay light fixture series are designed and developed to replace traditional high bay or low bay fixtures for industrial and other rugged applications. Light weighted and easy for installation, the LED High Bay/Low Bay fixtures are all designed to offer maximum energy saving, substantially reduced maintenance costs and superior quality.

Bay Light series: 30W, 50W, 60W, 80W, 100W, lumen output up to 7200lm



Bay Light series: 120W, 150W, 200W, lumen output up to 15000lm



1.1 Major Applications

Factory production floors, Workshop, Warehouses, Road toll gates, Petrol stations, Supermarkets, Sports stadiums, Convention centre halls, Airport passenger halls, etc., where high ceiling lighting required.

1.2 Features

- 1) Low power consumption. More than 60% energy saving compared to conventional HID/HPS.
- 2) Environmental friendly. Lead and mercury free.
- 3) Long operation life time, above 50,000hours. Low maintenance costs.
- 4) Voltage input 110-240VAC or 110-277VAC, 50/60Hz at choice.
- 5) Instant ON/OFF operation.
- 6) Superior colour rendition compared to conventional industrial luminaire.
- 7) Selectable colour temperature.
- 8) Patented single piece 30W-100W high power LED light source with unique multi-chip integration design ensure high light purity, high heat conduction and slow brightness derating.
- 9) Unique heat sink design ensures superior heat management.
- 10) Resistant to shock and vibration.



Car park



Gas station



Hall & corridor

2. Technical Parameters

Input Voltage	AC 100~240V/100~277V
Driver Power Frequency	47~63Hz
Driver Power Efficiency	≥85%
Total Power Consumption	30W 50W 60W 80W 100W 120W 150W 200W
Power Factor(PF)	≥0.98
Total Harmonic Distortion	≤10%
Luminaire Efficiency	≥90%
Flux (Lumens)	2400 4000 4800 6000 7200 9500 11500 15000
Colour Rendering Index	≥80
Colour Temperature	2700~7000K Optional
Beam Angle	90/120 Degree Optional
Light Efficiency	70~80lm/W
Working Ambient Temperature	-25°C~+45°C
Working Ambient Humidity	15%~90%RH
IP Rating	IP30/IP54 Optional
Service Life	≥50000 Hours
Light Fixture Material	Aluminium Alloy
NW (Kg)	3.2 3.6 3.9 4.5 4.9 6.2 7.7 9.5

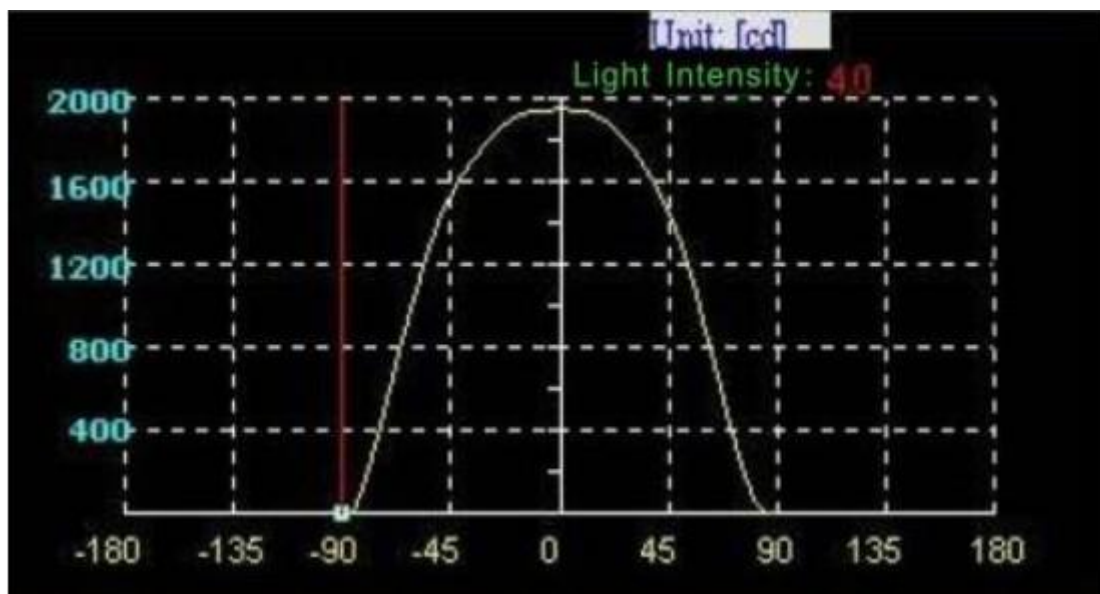
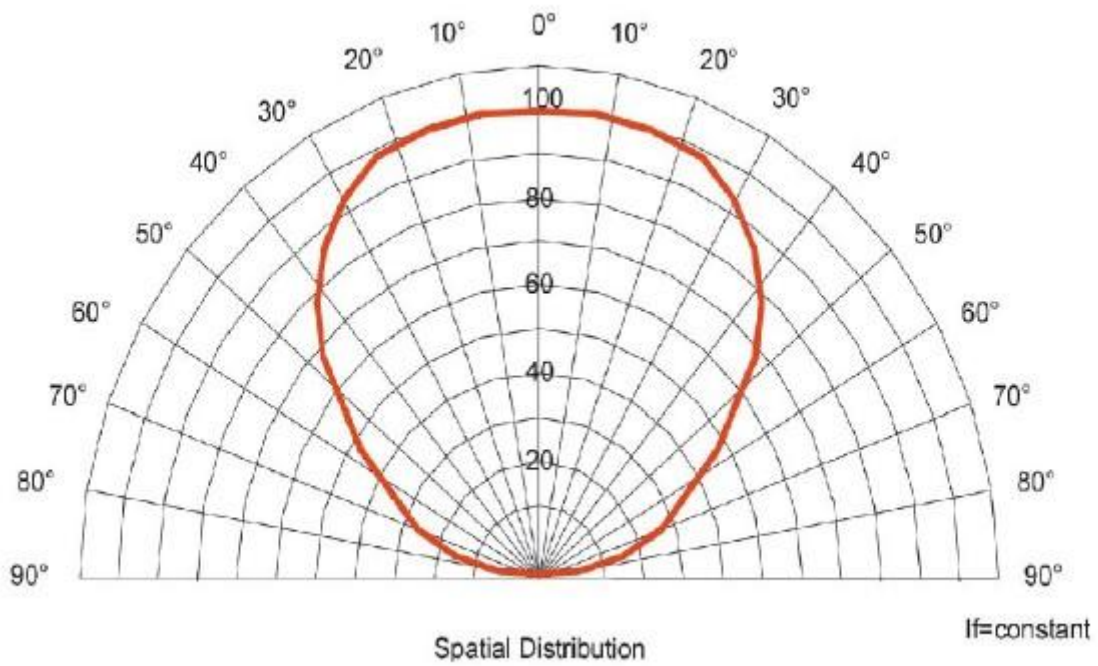


Workshop



Exhibition Hall

3. Light Distribution



4. Illuminance Chart

	Model	Power	Height	Light Spot Diameter	Illuminance (lux)	
					Centre Illuminance	Average Illuminance
LED High Bay/Low Bay Luminaire	BAY30EO	30 W	4m	8m	180	90
			5m	10m	110	55
			6m	12m	70	35
	BAY50EO	50 W	4m	8m	270	140
			5m	10m	175	90
			6m	12m	120	60
			7m	14m	90	45
			8m	16m	70	35
	BAY60EO	60 W	4m	8m	320	160
			5m	10m	210	105
			6m	12m	150	75
			7m	14m	110	55
			7.5m	15m	90	45
			8m	16m	70	35
	BAY80EO	80 W	4m	8m	405	205
			5m	10m	255	130
			6m	12m	170	90
			7m	14m	130	70
			8m	16m	95	50
			9m	18m	75	40
			10m	20m	65	35
	BAY100EO	100 W	4m	8m	420	255
			5m	10m	270	165
			6m	12m	190	115
			7m	14m	140	85
			8m	16m	110	65
			9m	18m	90	50
			10m	20m	70	40
11m			22m	60	35	

	Model	Power	Height	Light Spot Diameter	Illuminance (lux)		
					Centre Illuminance	Average Illuminance	
LED High Bay/Low Bay Luminaire	BAY120EO	120 W	8m	16m	140	85	
			9m	18m	118	65	
			10m	20m	90	50	
			11m	22m	78	42	
			12m	24m	65	36	
			13m	26m	55	32	
			14m	28m	45	25	
			15m	30m	35	20	
	BAY150EO	150 W	8m	16m	170	105	
			9m	18m	145	78	
			10m	20m	110	60	
			11m	22m	95	50	
			12m	24m	80	42	
			13m	26m	65	35	
			14m	28m	55	29	
			15m	30m	50	25	
	BAY200EO	200 W	10m	20m	145	78	
			11m	22m	125	65	
			12m	24m	104	55	
			13m	26m	85	46	
			14m	28m	77	37	
			15m	30m	66	32	
			16m	32m	55	28	
			17m	34m	50	24	
				18m	36m	42	19
				19m	38m	36	16

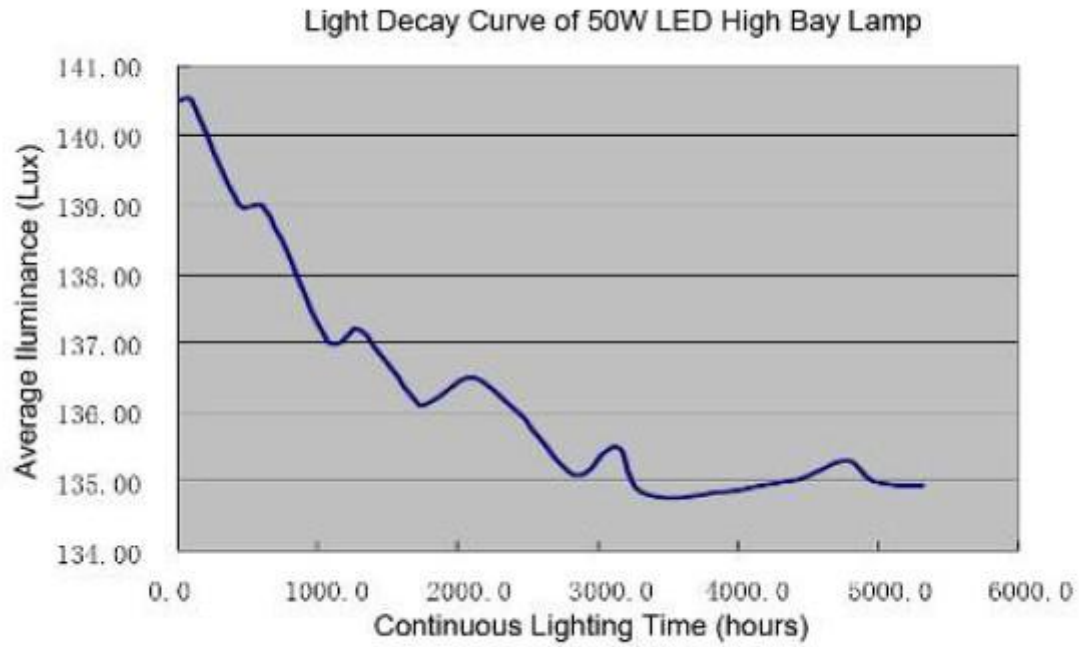


MAX Lighting and Power Ltd

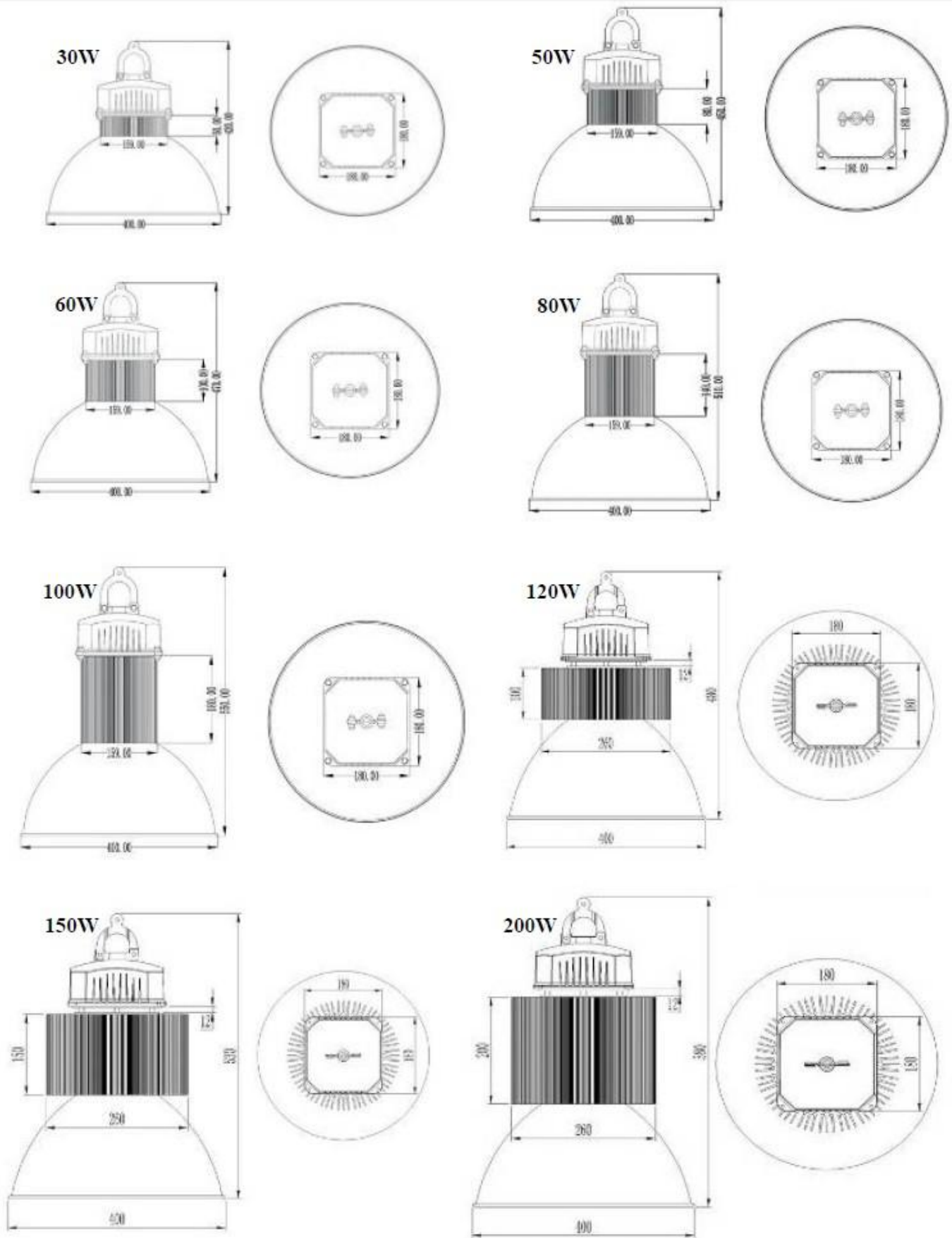
20/F, Unit 1-5, Midas Plaza, Tai Yau Street, San Po Kong, Kowloon, Hong Kong

5. Lumen Test Report

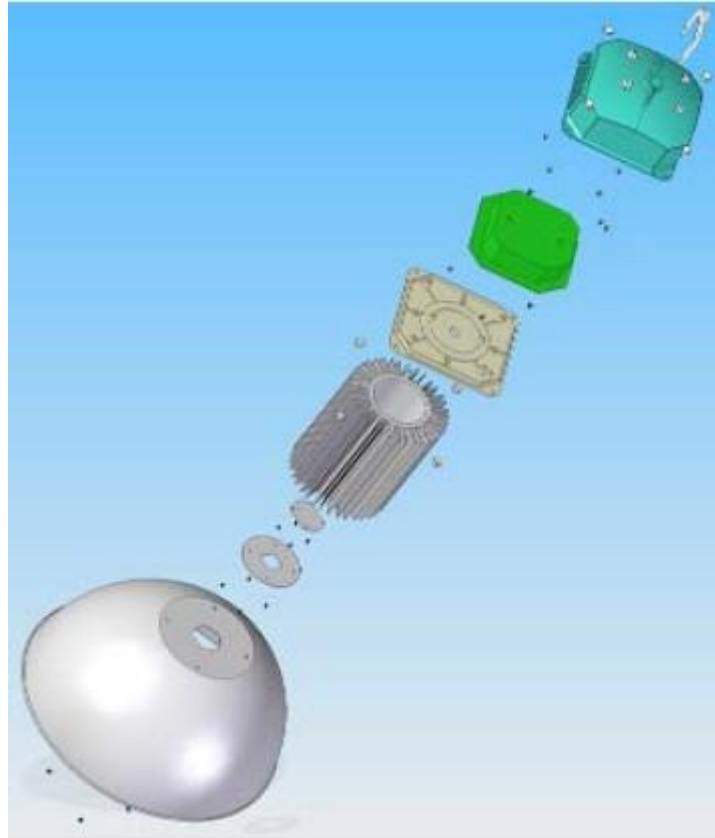
All LED bay light lumen tests indicate a typical 18% light depreciation after 5328 hours' non-stop performance.



6. Product Profile - 6.1 Fixture Dimensions



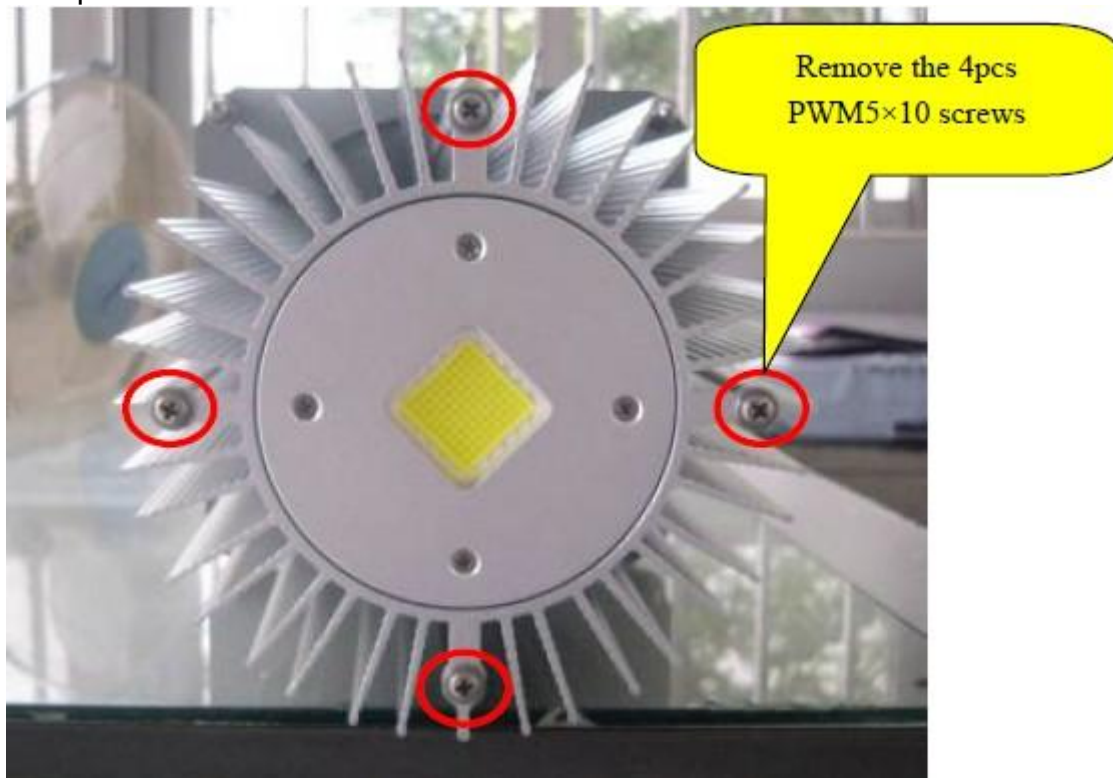
6.2 Components Break-Down



7. Installation Guide

(For Bay Light Fixture at 30W, 50W, 60W, 80W and 100W)

Step 1: Remove the four pieces PWM5×10 screws from the bay light fixture body, which are prefixed for shipment:



Step 2: Assemble the reflector to the lamp body with the four pieces PWM5x10 screws:



Step 3: Check and ensure the hanging ring bolts are properly tightened:



Step 4: Test light the lamp before hanging.

Step 5: Hang up the fixture to the hook from the ceiling securely:

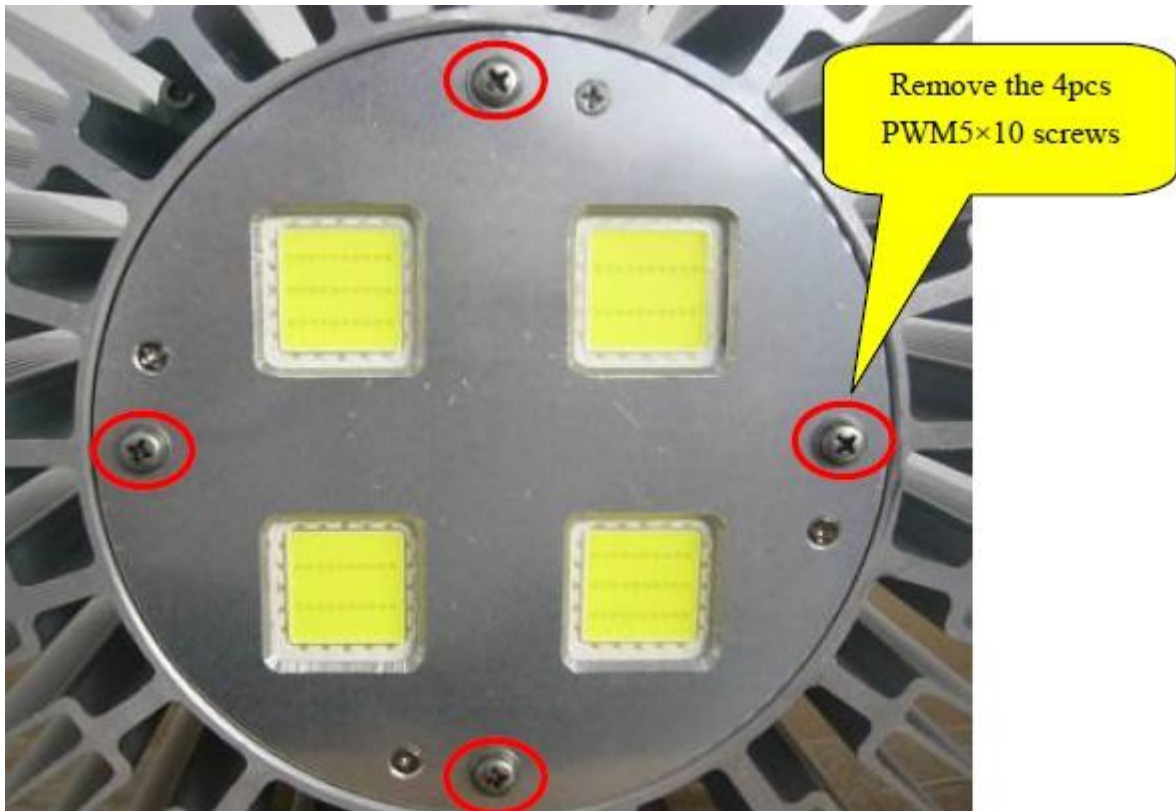


Step 6: Connect the power core and turn on the power:

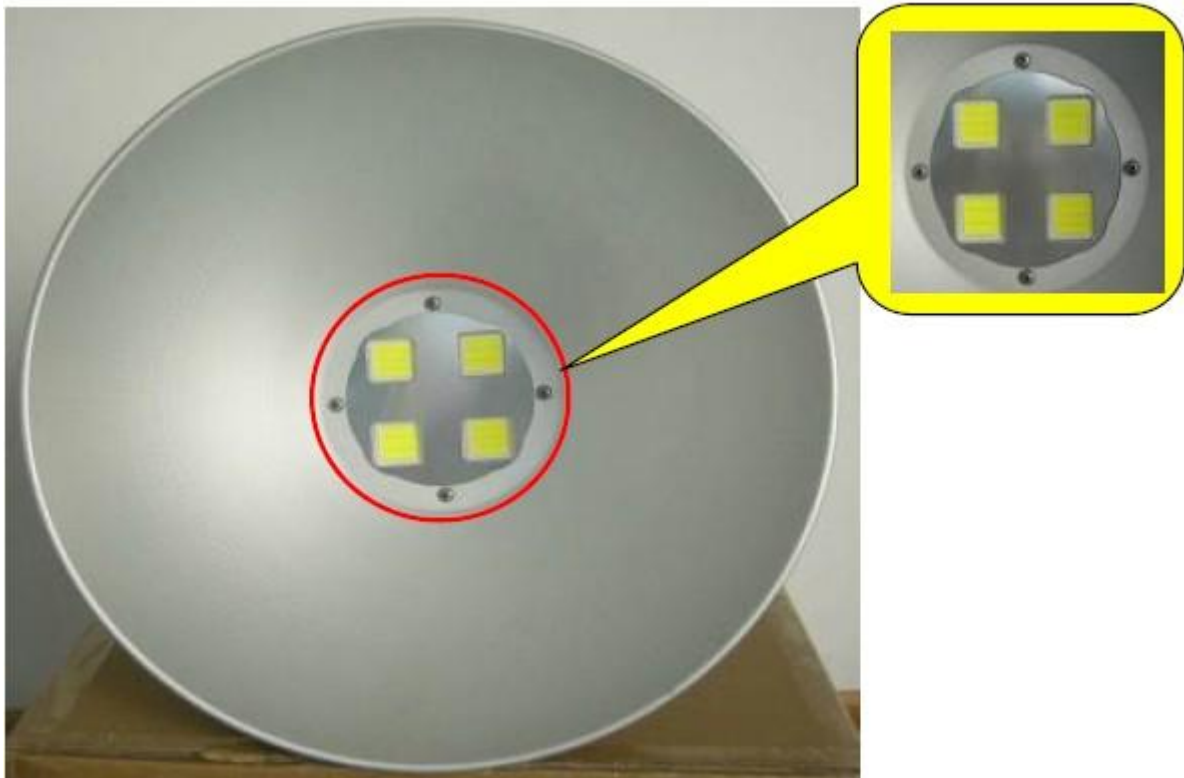


For Bay Light Fixture 120W, 150W and 200W

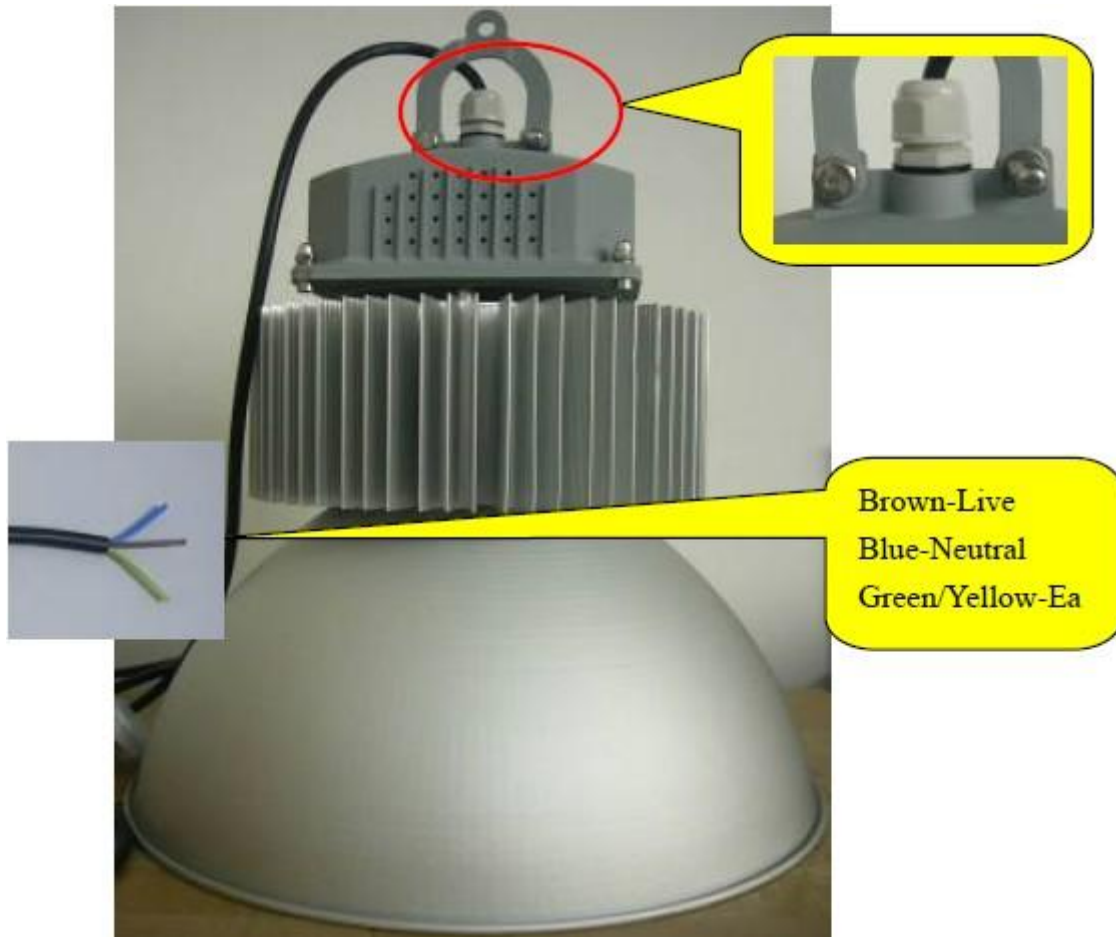
Step 1: Remove the four pieces PWM5×10 screws from the bay light fixture body, which are prefixed for shipment:



Step 2: Assemble the reflector to the lamp body with the four pieces PWM5×10 screws:



Step 3: Check and ensure the hanging ring bolts are properly tightened:



Step 4: Test light the lamp before hanging.

Step 5: Hang up the fixture to the hook from the ceiling securely. Connect the power core and turn on the power



Caution:

- Turn off power before cable connection
- Anti-static hand ring is required when replacing any electronics components
- Ensure all the AC power connections are properly done before turning power on.
- Do not touch the power driver when power is on
- Turn off power in case of any maintenance.

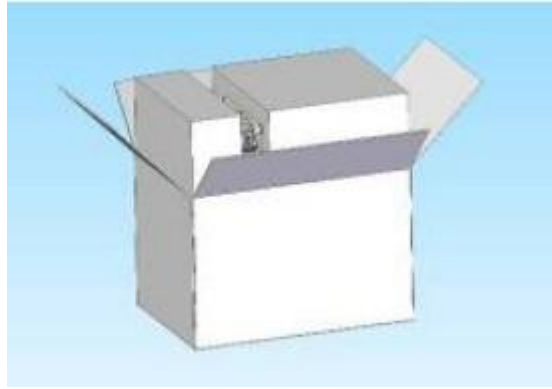
8. Troubleshooting

Description	Analysis	Solution
LED lamp doesn't light	1. Check whether the power line connection is right;	1. Reconnect the power line in the right way;
	2. Check whether the power plug is loose;	2. Re-plugged the loose power plug;
	3. Driver failure;	3. Replace with new driver
	4. LED integrated light source has been damaged.	4. Replace with a new LED integrated light source.
LED lamp light output is dim	1. Driver output is abnormal;	1. Replace with new driver;
	2. LED integrated light source supply failure.	2. Replace with new LED integrated light source.
LED lamp is flashing	3. Driver output is abnormal;	3. Replace with new driver;
	4. LED integrated chips failure.	4. Replace with new LED integrated chips.

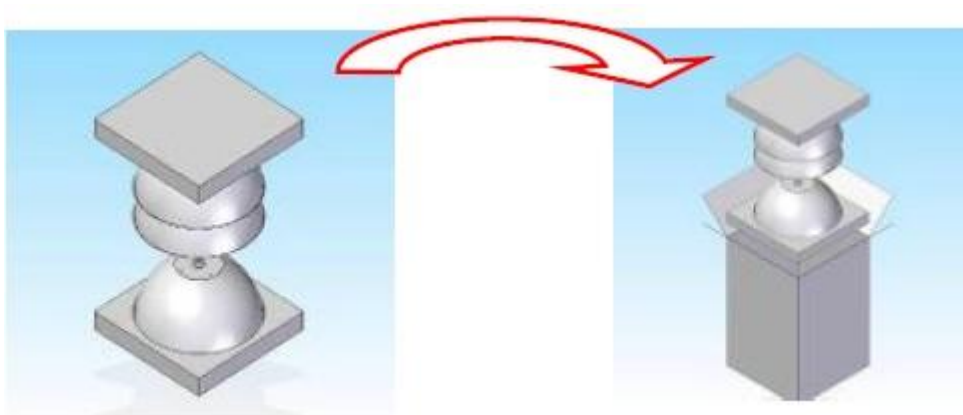


9. Package Information

LED bay light's lamp body and lamp shade are packed separately:



Lamp Body packing



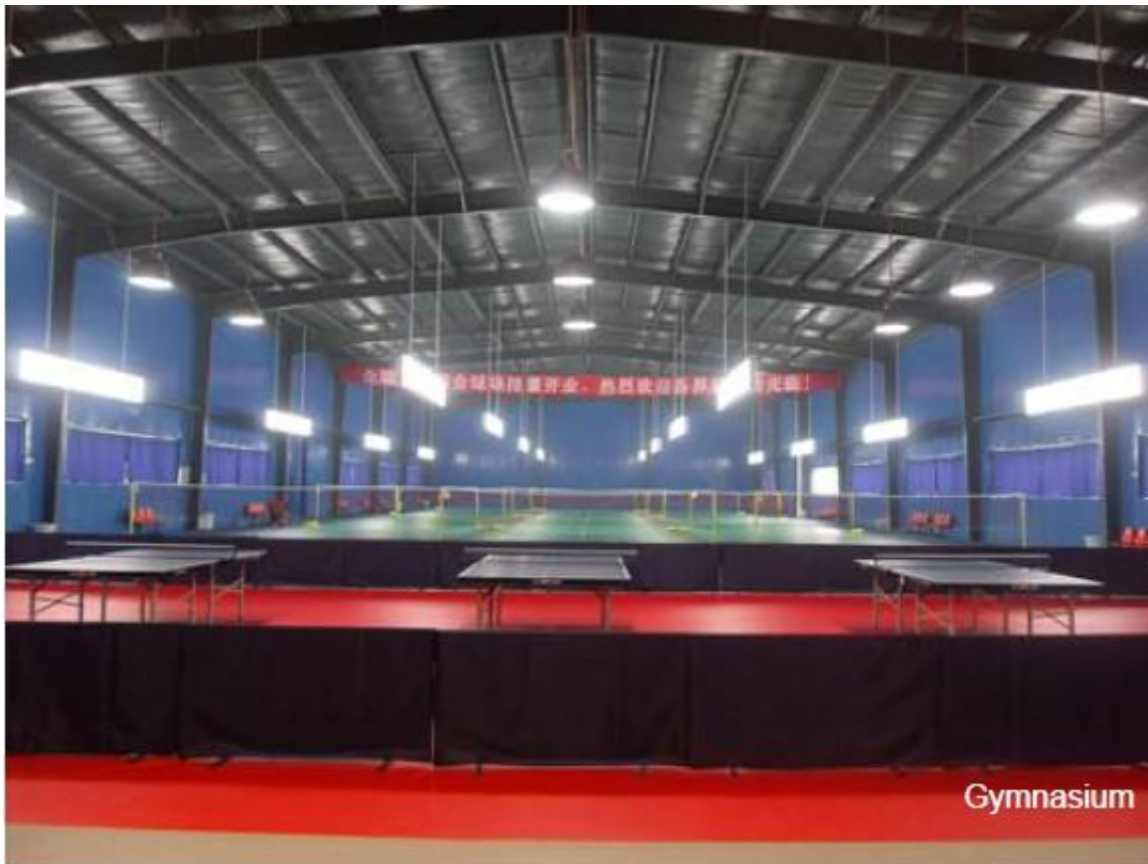
Lamp Shades Packing



Removed from package.

10. Lamp Comparison - LED vs Conventional

Flux (lm)	Power	Equivalent power of HID/Vapor lamp
2400	30W	100W
4000	50W	150W
4800	60W	200W
6000	80W	250W
7200	100W	300W
9500	120W	350W
11500	150W	400W
15000	200W	700W



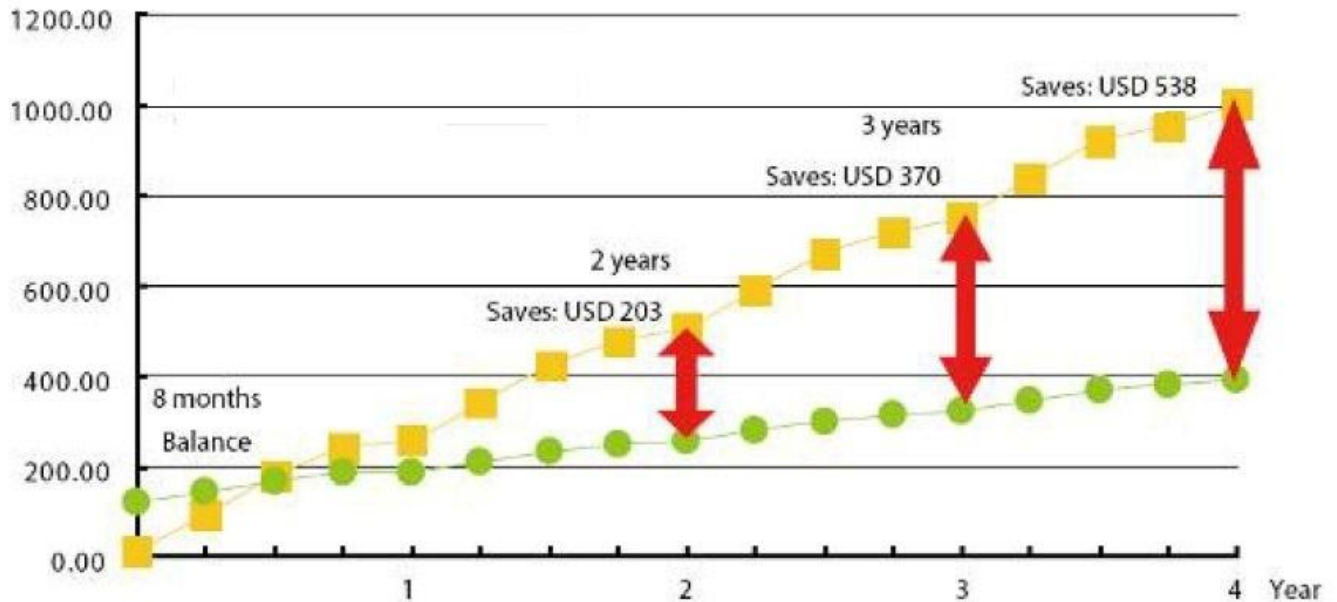
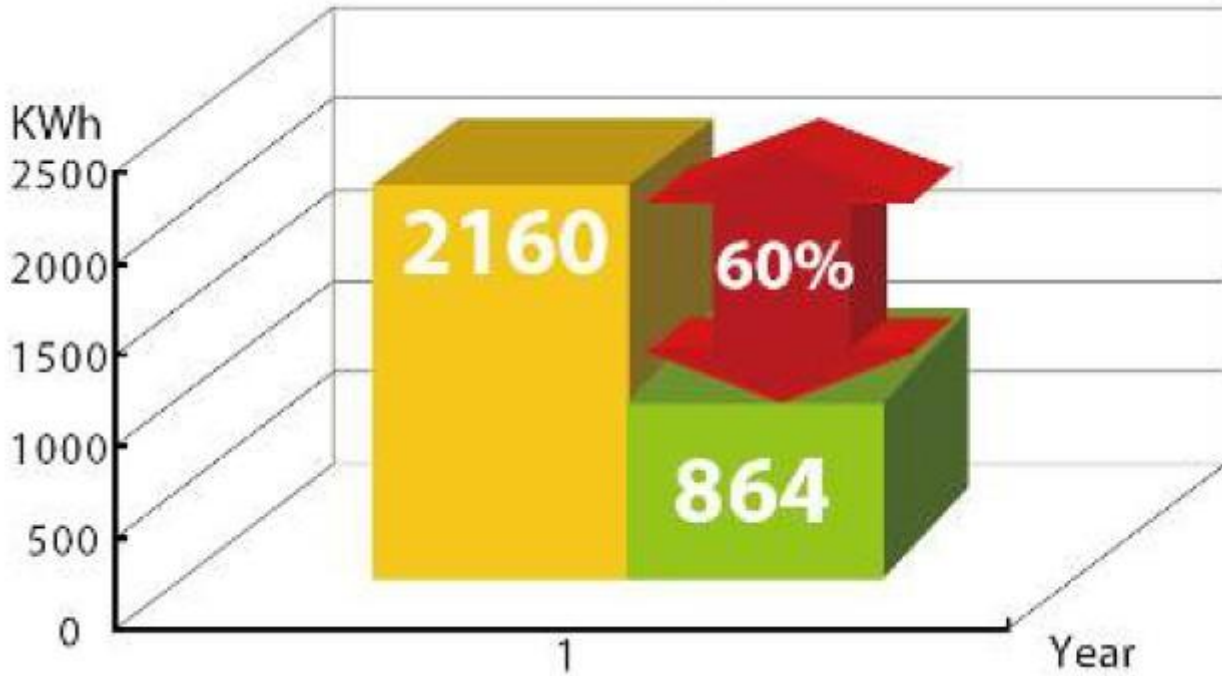
100W LED High Bay Vs 250W Mercury Vapor Lamp

Power saving by 60%

Reduction of greenhouse gas emission
by 505kg

Save 36 trees per year

Mercury Vapour Lamp 250W
High Bay (100W)



Note : Calculation based on 24 hours of daily operation (c9.41/KWh).

NOTE:

The Product design and specifications are subject to change without prior notice for the purposes of performance improvement.

Other Product Highlight



LED Floodlight

Up to 30,000 lumen for 36m high-mount applications

IP65 protection

60% power saving, 90% reduction in greenhouse gas emission. Long lifetimes and highly reliable service, greatly reducing maintenance costs.

Original Cree chips used

50,000 hours service life.



Garage Light

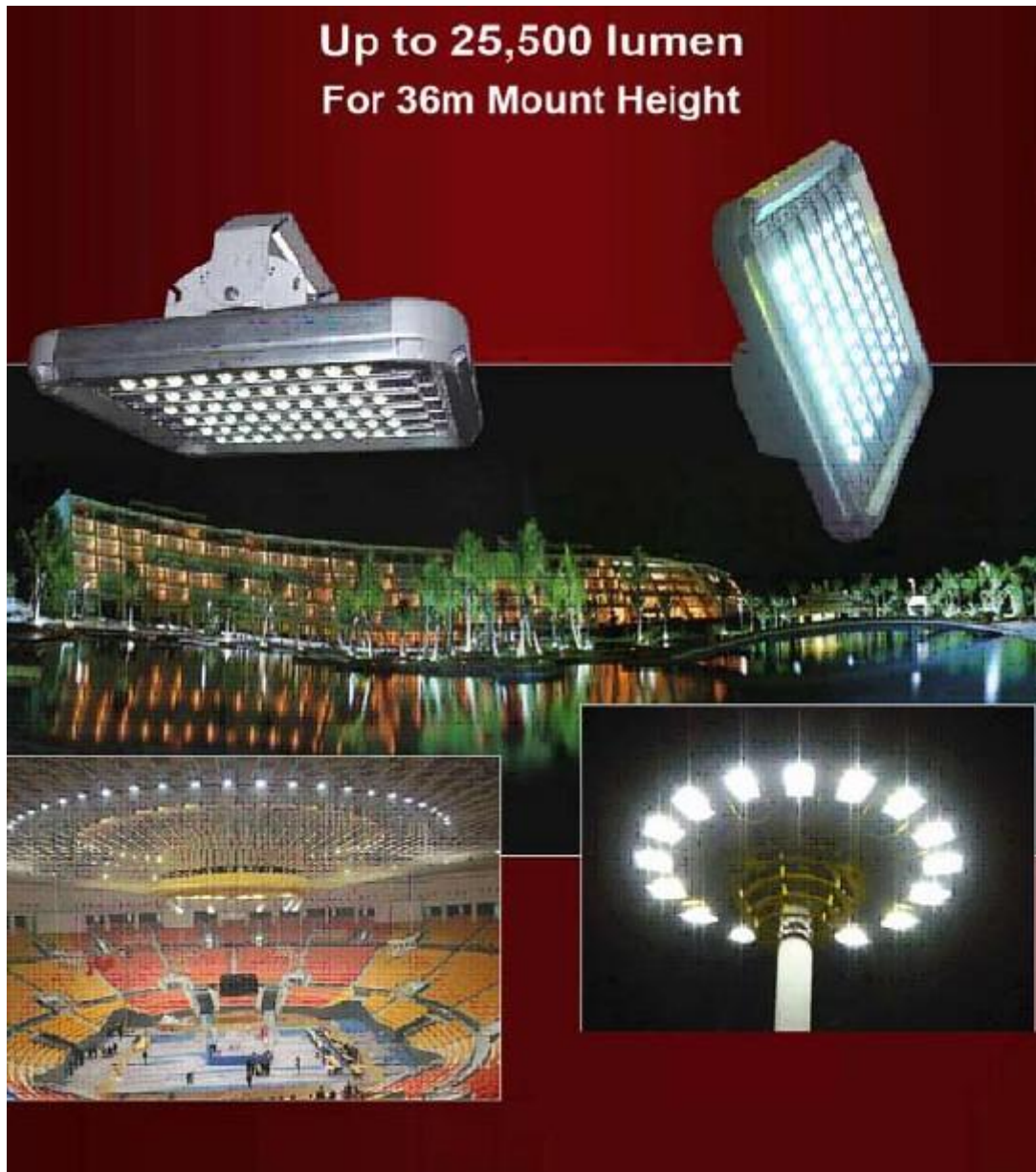
60% power saving, 90% reduction in greenhouse gas emission. Long lifetimes and highly reliable service, greatly reducing maintenance costs.

LED's own cutoff light property provides high vertical illuminance with minimum glare.

IP30/IP54 protection

50,000 hours service life

LED Flood/Canopy Light Fixture Product Manual



CE  IP65


Complus Trading

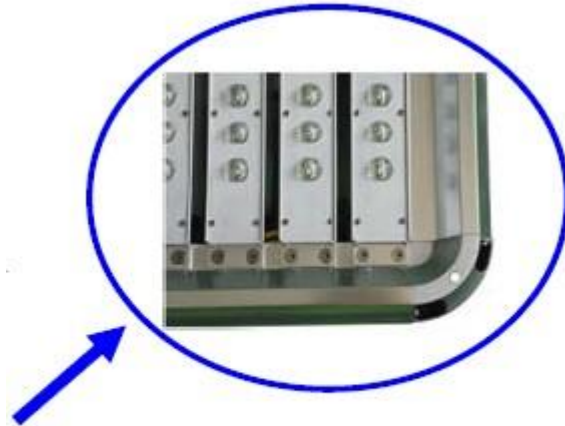
Vabaõhumuseumi tee 2A-14, 13522 Tallinn, Estonia

1. Product Description



1.1 Material Summary

- 1) Aluminium alloy frame
- 2) Proprietary modular-based heat sink in high purity aluminium



- 3) Cree XPC/XPE LEDs
- 4) UL Listed high efficiency driver IP67 rated

1.2 Major Applications

Suitable for outdoor and/or dusty environment illumination such as for tunnels, billboards, building contour, public squares, sport stadiums, factories, railway stations and harbours, etc.

1.3 Features

- Complete produce range from 40W to 300W
- Extremely high lux output up to 25500lm
- Original Cree outdoor white LEDs, XP-C/XP-E
- Smart modular design ensures superior heat management
- IP 65 rated, water and dust proof
- Voltage input 110-240VAC or 110-277VAC, 50/60Hz at choice
- Selectable colour temperature from 2700K to 7000K
- Optional function as IP65 low bay/high bay and tunnel lighting application
- Long operation life time, above 50,000 hours. Low maintenance costs
- Ideal replacement of 120W to 1000W conventional metal halide lamps
- Energy saving more than 60%
- Environmental friendly. Lead and mercury free
- Instant ON/OFF operation, no more waiting for warm up
- Superior colour rendition compared to conventional luminaire
- Resistant to shock and vibration

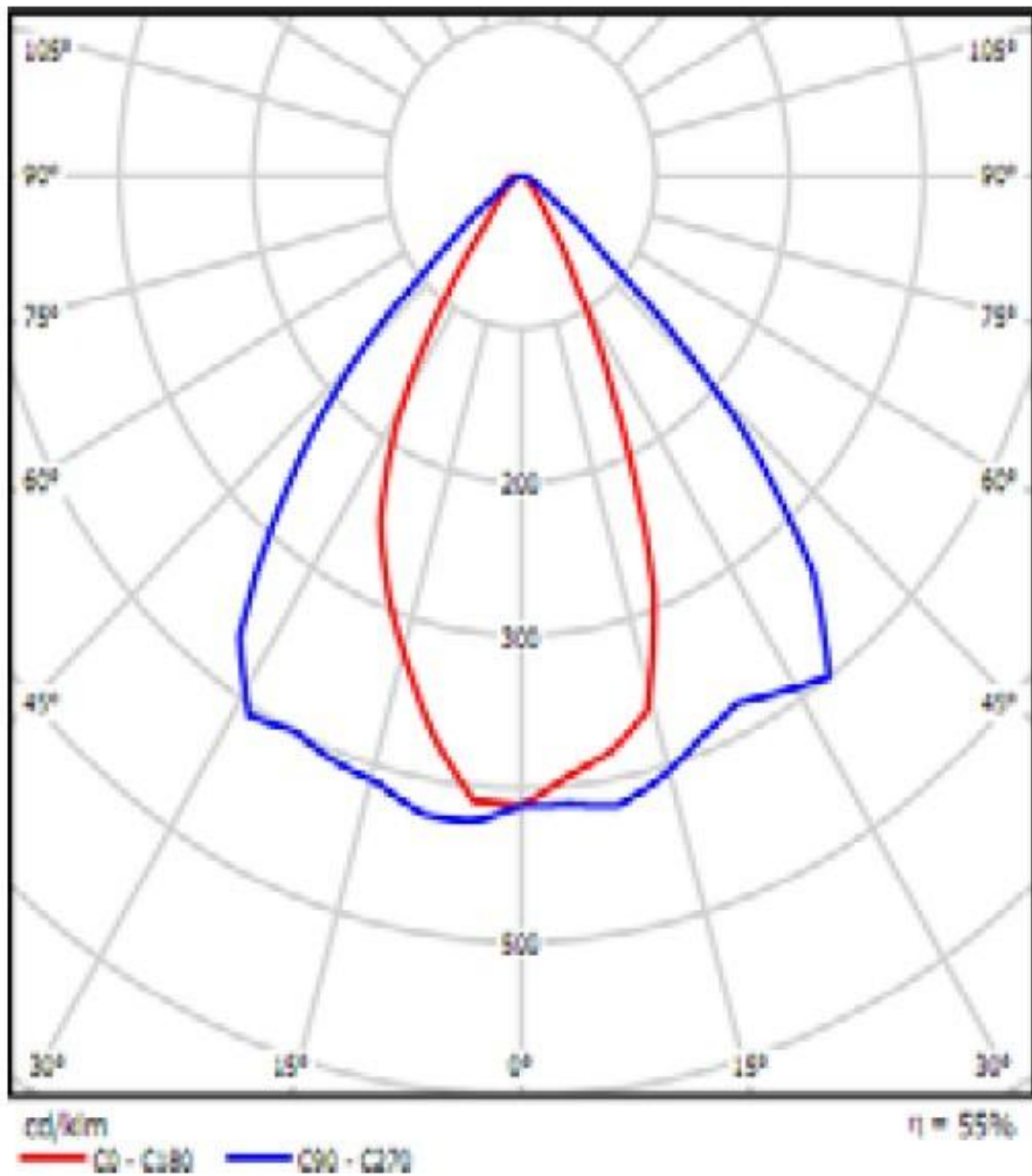
2. Technical Parameters

Input Voltage	90VAC~264VAC
Driver Power Frequency	47~63Hz
Driver Power Efficiency	≥90%
Total Power Consumption	40W 60W 90W 120W 150W 180W 240W 300W
Power Factor(PF)	≥0.95
Luminaire Efficiency	≥94%
Flux (Lumens)	3500~25500lm
Colour Rendering Index	≥80
Colour Temperature	2700~7000K Optional
Brightness Uniformity	0.7
Beam Angle	60/90 Degree Optional
Light Spot	Rectangular
Working Ambient Temperature	-35°C~+50°C
Working Ambient Humidity	15%~90%RH
IP Rating	IP65
Service Life	≥50000 Hours
Light Fixture Material	Aluminium Alloy + PC Lens

40W LED Flood/Canopy Light
Model FLOOD40EO

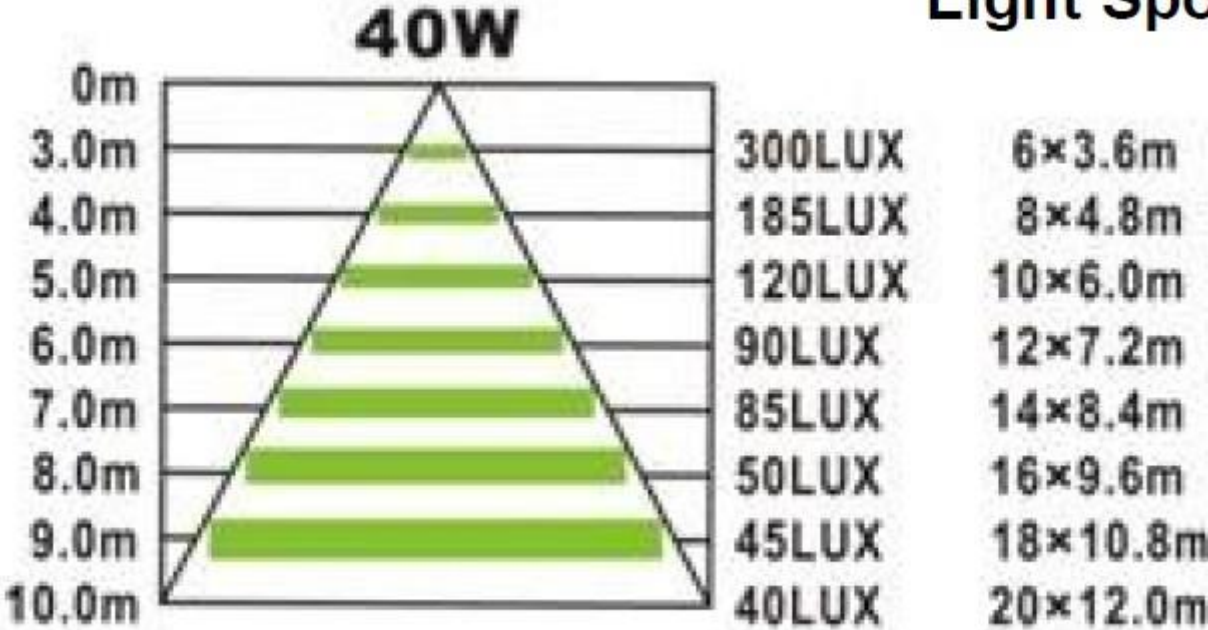


Optical Parameters		Electrical Parameters	
LED Chip Input	CREE XPE	Voltage AC	100~240V/100~277V
Light Source CREE	LED Chip of 1~3W	Power Frequency of Driver	47~63Hz
LED Quantity	20	Output Voltage DC	3~42V
Colour Temperature	2700~7000K	Optional Output Current	2.8A (Constant Current)
Luminaire Efficiency	≥94%	Total Power Consumption	52W±5W
Luminous Efficacy	≥80lm/W LED	Power Consumption	44W±5W
Flux	2900~3400lm	Power Efficiency of Driver	≥85%
Colour Rendering Index	≥80	Power Factor	≥0.95
Beam Angle	60°/90°	Dgr Total Harmonic Distortion	≤15%
Heat Sink Surface Temperature	43°C (@ Ambient Temperature 30°C)	Service Life	≥50000Hrs
Base Plate Temperature	45°C (@ Ambient Temperature 30°C)	Light Fixture Material	Aluminium alloy + PC Lens
Working Ambient Temperature	-35~+55°C	IP Rating	IP65
Working Ambient Humidity	15%~90%RH	Net Weight	4.3kg±0.2kg
Storage Ambient Temperature	-30~+65°C	Light Fixture Size	L378mm×W256mm×H125mm
HPS Equivalent	120W/150W	Package Size	L458mm×W336mm×H210mm



Light Distribution

Light Spot

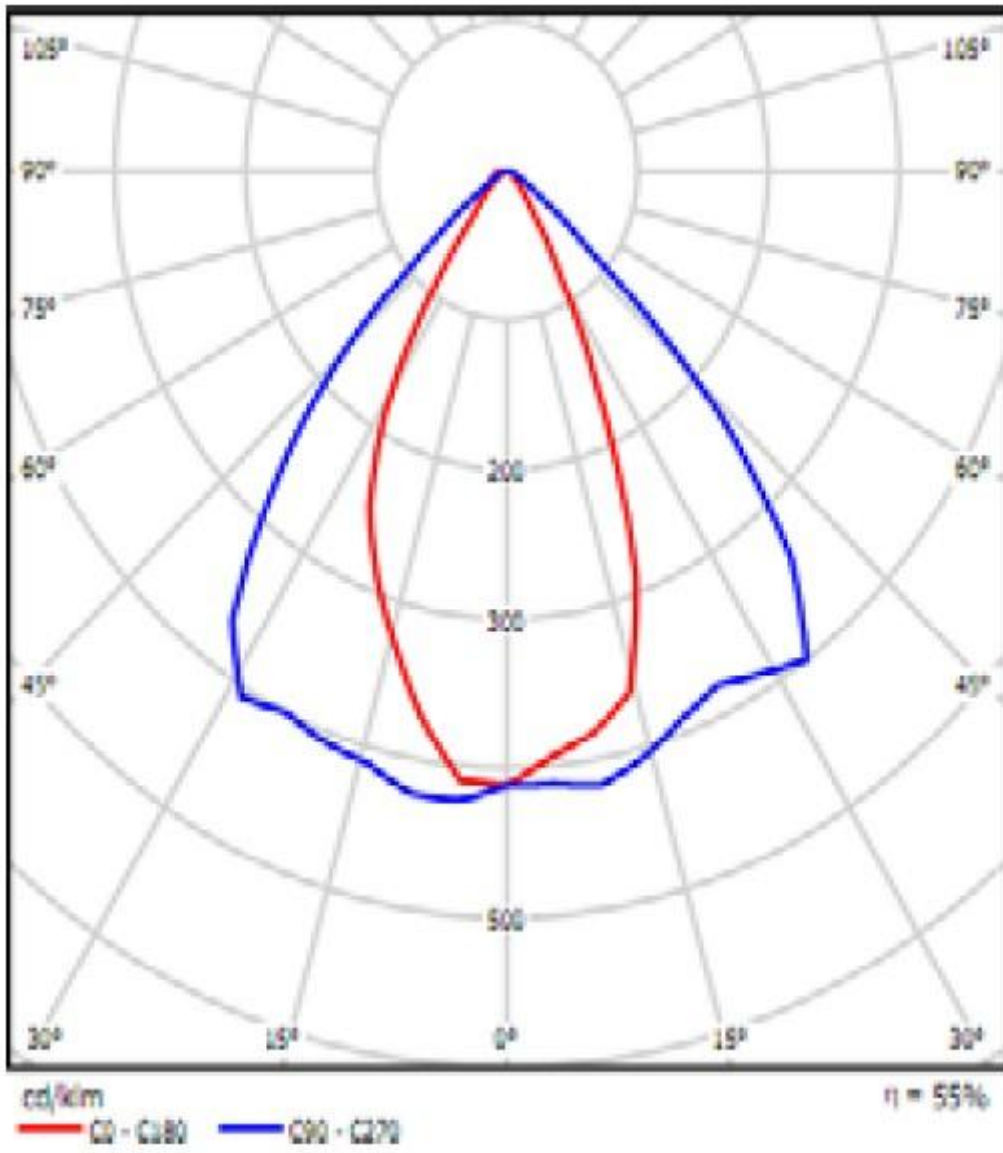


Illuminance Chart

60W LED Flood/Canopy Light
Model FLOOD60EO



Optical Parameters		Electrical Parameters	
LED Chip Input	CREE XPE	Voltage AC	100~240V/100~277V
Light Source CREE	LED Chip of 1~3W	Power Frequency of Driver	47~63Hz
LED Quantity	30	Output Voltage DC	3~34V
Colour Temperature	2700~7000K	Optional Output Current	3.48A (Constant Current)
Luminaire Efficiency	≥94%	Total Power Consumption	67W±5W
Luminous Efficacy	≥80lm/W LED	Power Consumption	58W±5W
Flux	4350~5100lm	Power Efficiency of Driver	≥85%
Colour Rendering Index	≥80	Power Factor	≥0.95
Beam Angle	60°/90°	Dgr Total Harmonic Distortion	≤15%
Heat Sink Surface Temperature	43°C (@ Ambient Temperature 30°C)	Service Life	≥50000Hrs
Base Plate Temperature	45°C (@ Ambient Temperature 30°C)	Light Fixture Material	Aluminium alloy + PC Lens
Working Ambient Temperature	-35~+55°C	IP Rating	IP65
Working Ambient Humidity	15%~90%RH	Net Weight	5.3kg±0.3kg
Storage Ambient Temperature	-30~+65°C	Light Fixture Size	L378mm×W340mm×H125mm
HPS Equivalent	120W/150W	Package Size	L458mm×W420mm×H210mm



Light Distribution

Light Spot

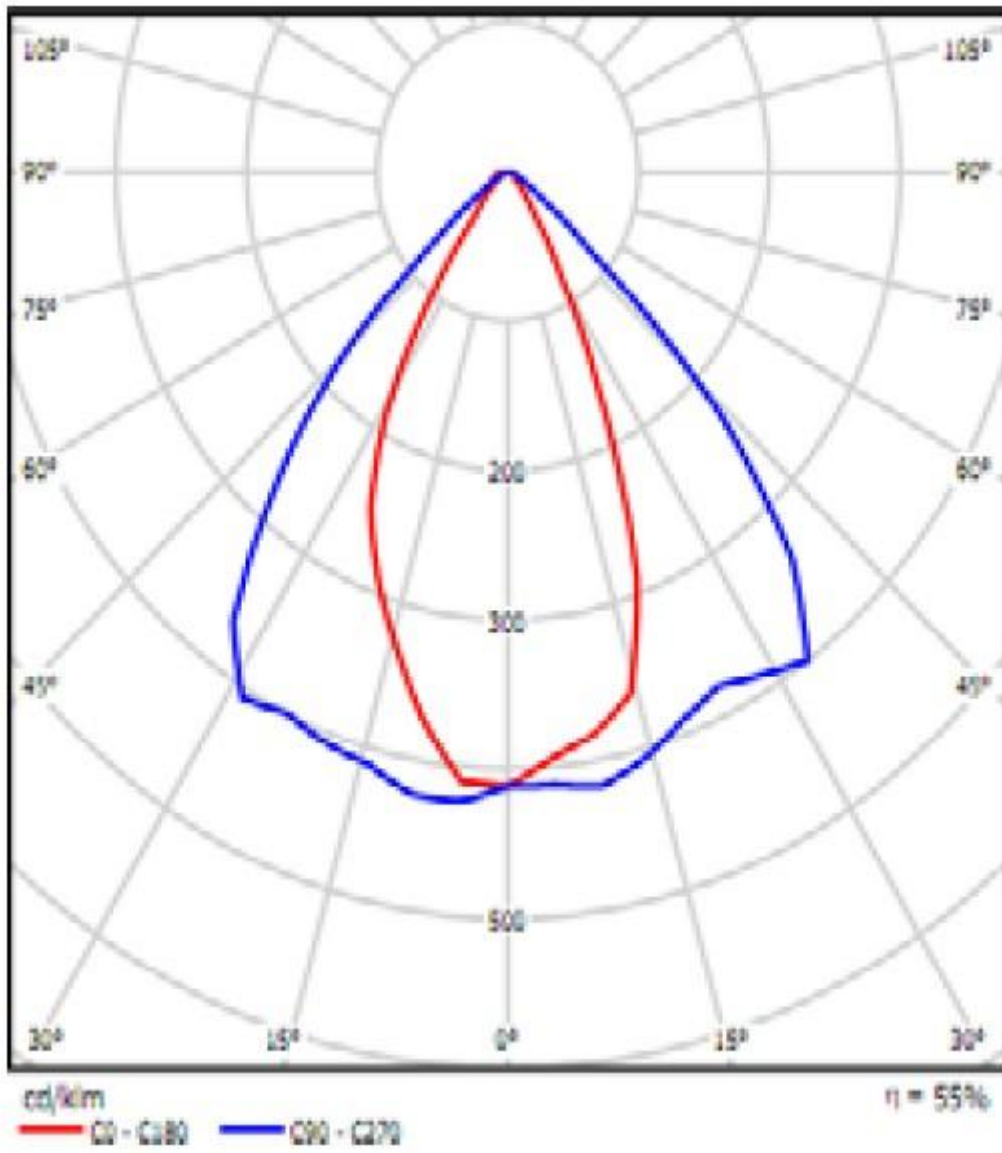


Illuminance Chart

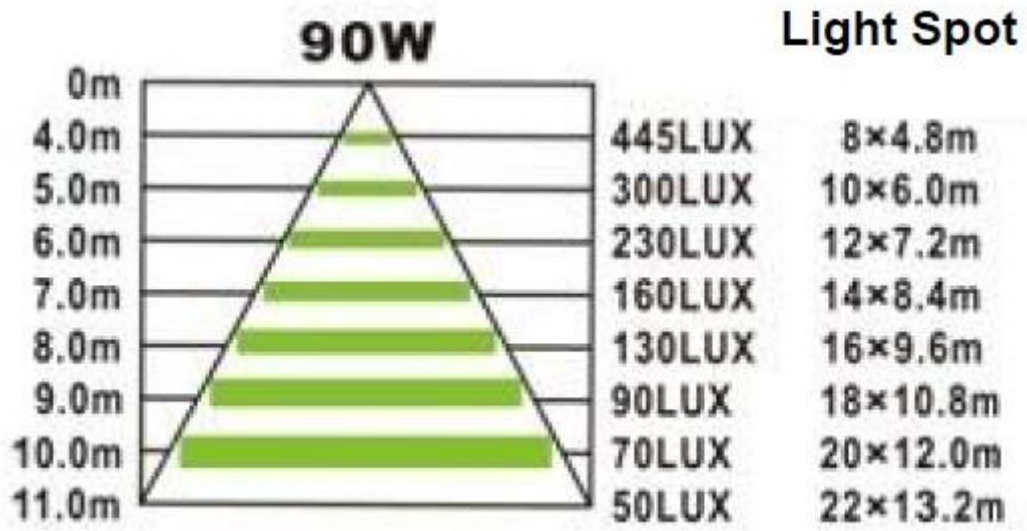
90W LED Flood/Canopy Light
Model FLOOD90EO



Optical Parameters		Electrical Parameters	
LED Chip Input	CREE XPE	Voltage AC	100~240V/100~277V
Light Source CREE	LED Chip of 1~3W	Power Frequency of Driver	47~63Hz
LED Quantity	48	Output Voltage DC	42~56V
Colour Temperature	2700~7000K	Optional Output Current	3.6A (Constant Current)
Luminaire Efficiency	≥94%	Total Power Consumption	100W±5W
Luminous Efficacy	≥80lm/W LED	Power Consumption	90W±5W
Flux	6960~8160lm	Power Efficiency of Driver	≥88%
Colour Rendering Index	≥80	Power Factor	≥0.95
Beam Angle	60°/90°	Dgr Total Harmonic Distortion	≤15%
Heat Sink Surface Temperature	44°C (@ Ambient Temperature 30°C)	Service Life	≥50000Hrs
Base Plate Temperature	46°C (@ Ambient Temperature 30°C)	Light Fixture Material	Aluminium alloy + PC Lens
Working Ambient Temperature	-35~+55°C	IP Rating	IP65
Working Ambient Humidity	15%~90%RH	Net Weight	5.8kg±0.32kg
Storage Ambient Temperature	-30~+65°C	Light Fixture Size	L520mm×W340mm×H125mm
HPS Equivalent	150W/180W	Package Size	L600mm×W420mm×H210mm



Light Distribution

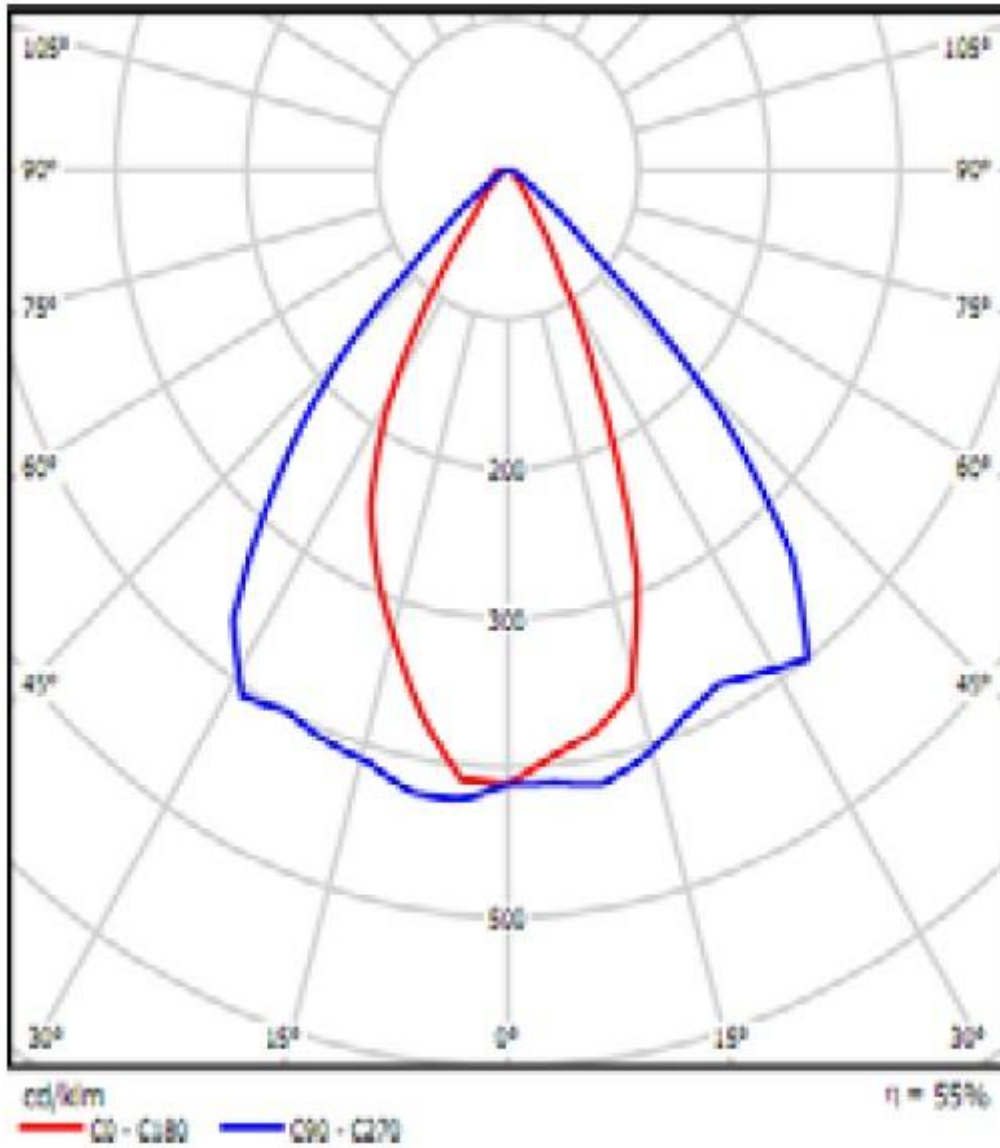


Illuminance Chart

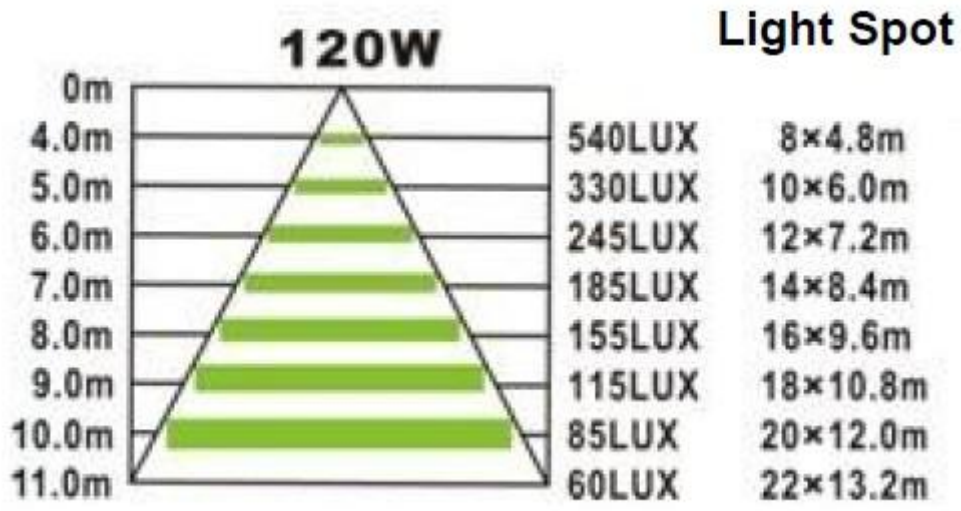
120W LED Flood/Canopy Light
Model FLOOD120EO



Optical Parameters		Electrical Parameters	
LED Chip Input	CREE XPE	Voltage AC	100~240V/100~277V
Light Source CREE	LED Chip of 1~3W	Power Frequency of Driver	47~63Hz
LED Quantity	64	Output Voltage DC	42~56V
Colour Temperature	2700~7000K	Optional Output Current	4.8A (Constant Current)
Luminaire Efficiency	≥94%	Total Power Consumption	143W±5W
Luminous Efficacy	≥80lm/W LED	Power Consumption	121W±5W
Flux	9280~10880lm	Power Efficiency of Driver	≥89%
Colour Rendering Index	≥80	Power Factor	≥0.95
Beam Angle	60°/90°	Dgr Total Harmonic Distortion	≤15%
Heat Sink Surface Temperature	45°C (@ Ambient Temperature 30°C)	Service Life	≥50000Hrs
Base Plate Temperature	47°C (@ Ambient Temperature 30°C)	Light Fixture Material	Aluminium alloy + PC Lens
Working Ambient Temperature	-35~+55°C	IP Rating	IP65
Working Ambient Humidity	15%~90%RH	Net Weight	8.2kg±0.4kg
Storage Ambient Temperature	-30~+65°C	Light Fixture Size	L520mm×W424mm×H125mm
HPS Equivalent	250W/400W	Package Size	L600mm×W504mm×H210mm



Light Distribution

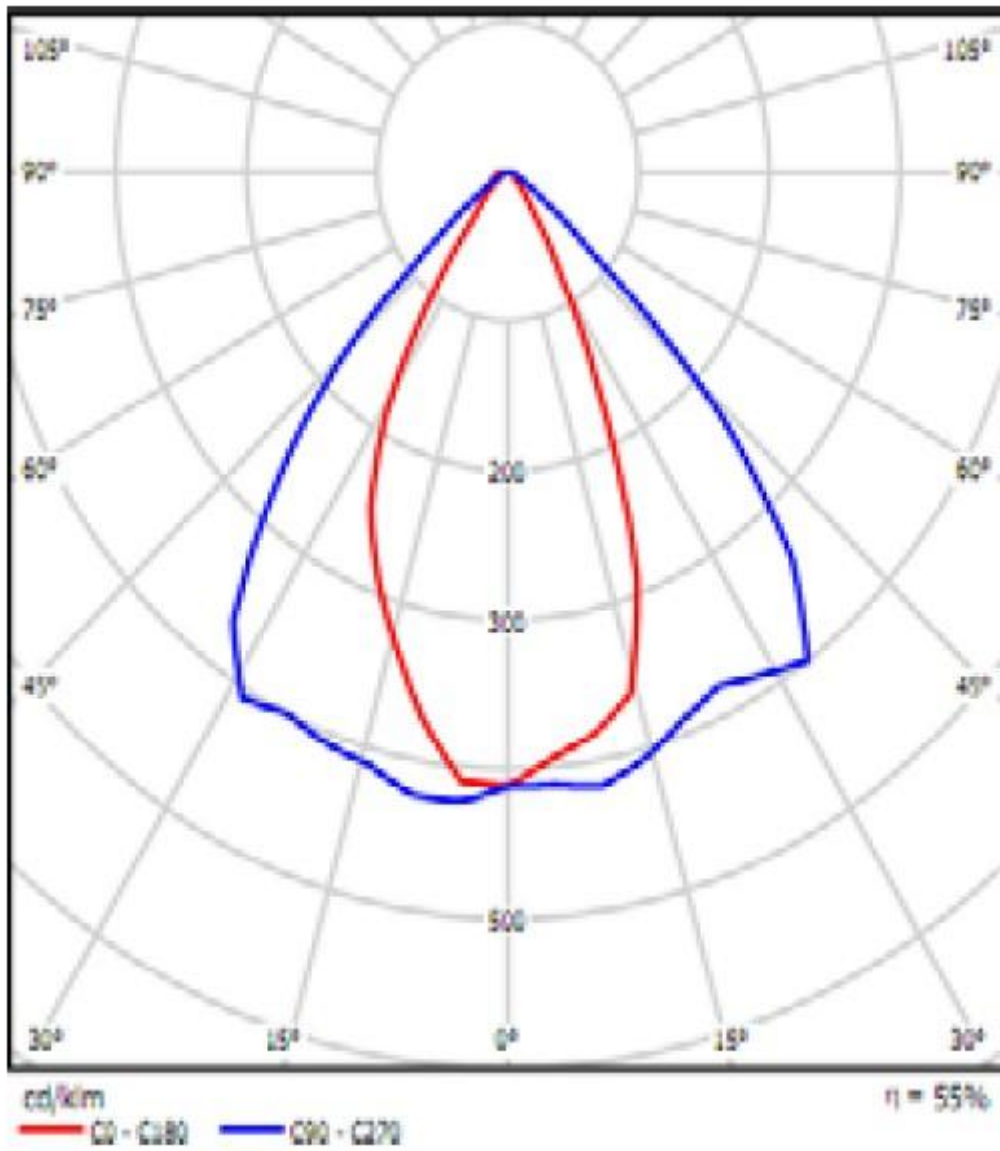


Illuminance Chart

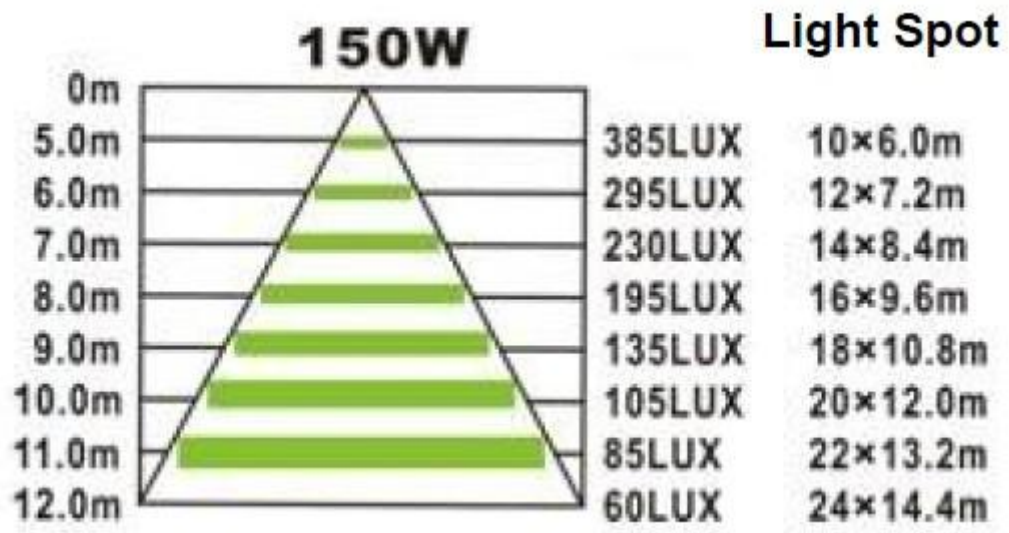
150W LED Flood/Canopy Light
Model FLOOD150EO



Optical Parameters		Electrical Parameters	
LED Chip Input	CREE XPE	Voltage AC	100~240V/100~277V
Light Source CREE	LED Chip of 1~3W	Power Frequency of Driver	47~63Hz
LED Quantity	80	Output Voltage DC	42~56V
Colour Temperature	2700~7000K	Optional Output Current	6.0A (Constant Current)
Luminaire Efficiency	≥94%	Total Power Consumption	175W±5W
Luminous Efficacy	≥80lm/W LED	Power Consumption	151W±5W
Flux	11600~13600lm	Power Efficiency of Driver	≥91%
Colour Rendering Index	≥80	Power Factor	≥0.95
Beam Angle	60°/90°	Dgr Total Harmonic Distortion	≤15%
Heat Sink Surface Temperature	45°C (@ Ambient Temperature 30°C)	Service Life	≥50000Hrs
Base Plate Temperature	47°C (@ Ambient Temperature 30°C)	Light Fixture Material	Aluminium alloy + PC Lens
Working Ambient Temperature	-35~+55°C	IP Rating	IP65
Working Ambient Humidity	15%~90%RH	Net Weight	10.2kg±0.4kg
Storage Ambient Temperature	-30~+65°C	Light Fixture Size	L520mm×W508mm×H125mm
HPS Equivalent	250W/400W	Package Size	L600mm×W588mm×H210mm



Light Distribution

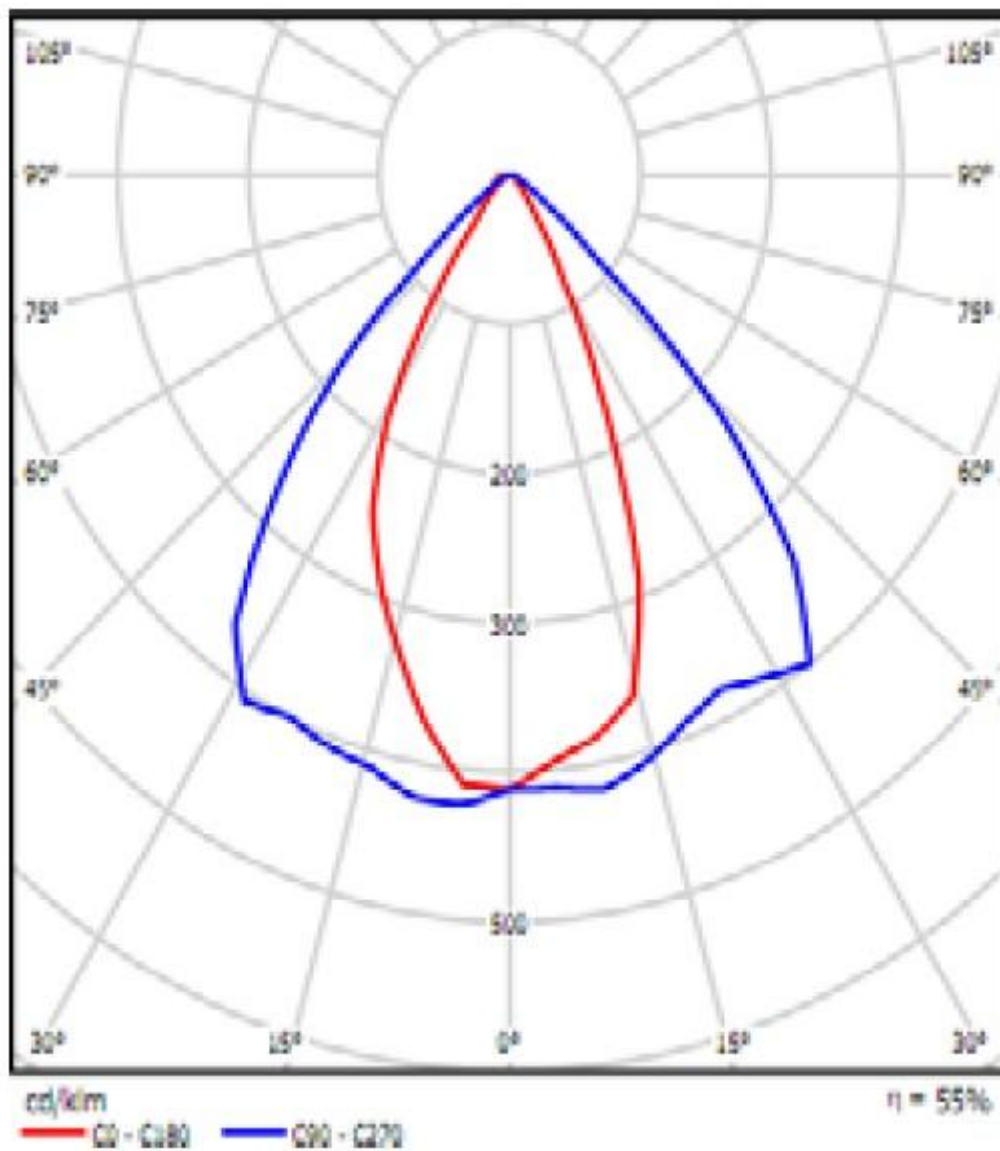


Illuminance Chart

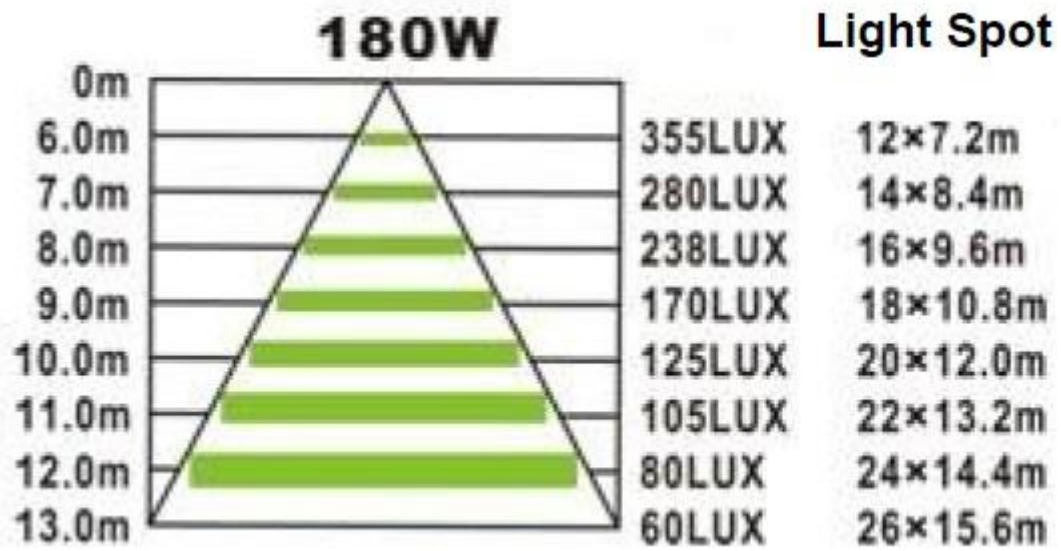
180W LED Flood/Canopy Light
Model FLOOD180EO



Optical Parameters		Electrical Parameters	
LED Chip Input	CREE XPE	Voltage AC	100~240V/100~277V
Light Source CREE	LED Chip of 1~3W	Power Frequency of Driver	47~63Hz
LED Quantity	90	Output Voltage DC	39~53V
Colour Temperature	2700~7000K	Optional Output Current	6.0A (Constant Current)
Luminaire Efficiency	≥94%	Total Power Consumption	199W±8W
Luminous Efficacy	≥80lm/W LED	Power Consumption	170W±8W
Flux	13050~15300lm	Power Efficiency of Driver	≥90%
Colour Rendering Index	≥80	Power Factor	≥0.95
Beam Angle	60°/90°	Dgr Total Harmonic Distortion	≤15%
Heat Sink Surface Temperature	44°C (@ Ambient Temperature 30°C)	Service Life	≥50000Hrs
Base Plate Temperature	46°C (@ Ambient Temperature 30°C)	Light Fixture Material	Aluminium alloy + PC Lens
Working Ambient Temperature	-35~+55°C	IP Rating	IP65
Working Ambient Humidity	15%~90%RH	Net Weight	10.5kg±0.4kg
Storage Ambient Temperature	-30~+65°C	Light Fixture Size	L900mm×W508mm×H125mm
HPS Equivalent	400W/600W	Package Size	L980mm×W588mm×H210mm

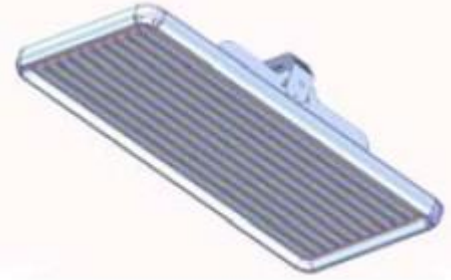


Light Distribution

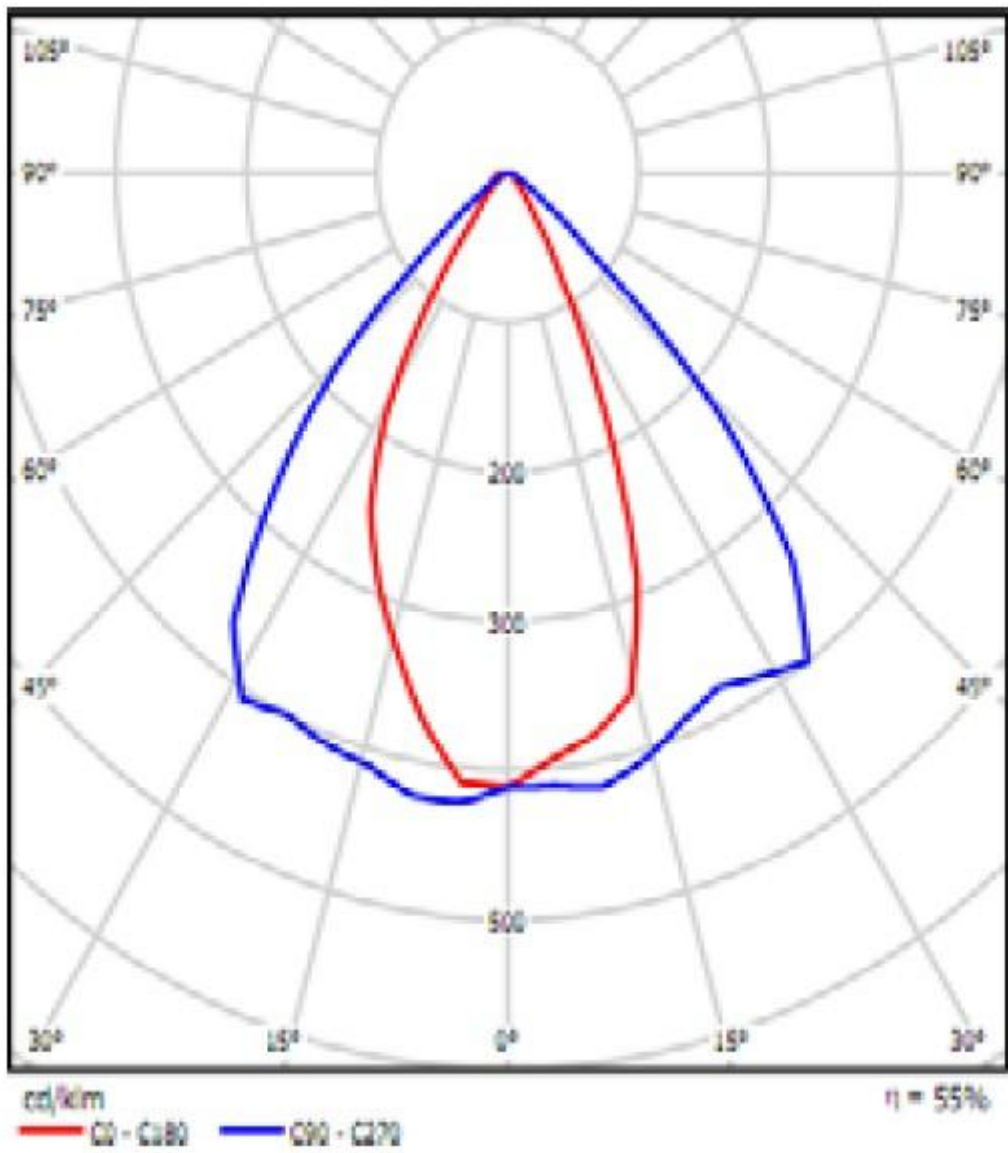


Illuminance Chart

240W LED Flood/Canopy Light
Model FLOOD240EO



Optical Parameters		Electrical Parameters	
LED Chip Input	CREE XPE	Voltage AC	100~240V/100~277V
Light Source CREE	LED Chip of 1~3W	Power Frequency of Driver	47~63Hz
LED Quantity	120	Output Voltage DC	26~51V
Colour Temperature	2700~7000K	Optional Output Current	4.8A (Constant Current)
Luminaire Efficiency	≥94%	Total Power Consumption	254W±8W
Luminous Efficacy	≥80lm/W LED	Power Consumption	227W±8W
Flux	17400~20400lm	Power Efficiency of Driver	≥94%
Colour Rendering Index	≥80	Power Factor	≥0.95
Beam Angle	60°/90°	Dgr Total Harmonic Distortion	≤15%
Heat Sink Surface Temperature	44°C (@ Ambient Temperature 30°C)	Service Life	≥50000Hrs
Base Plate Temperature	46°C (@ Ambient Temperature 30°C)	Light Fixture Material	Aluminium alloy + PC Lens
Working Ambient Temperature	-35~+55°C	IP Rating	IP65
Working Ambient Humidity	15%~90%RH	Net Weight	11.0kg±0.4kg
Storage Ambient Temperature	-30~+65°C	Light Fixture Size	L900mm×W508mm×H125mm
HPS Equivalent	500W/700W	Package Size	L980mm×W588mm×H210mm



Light Distribution

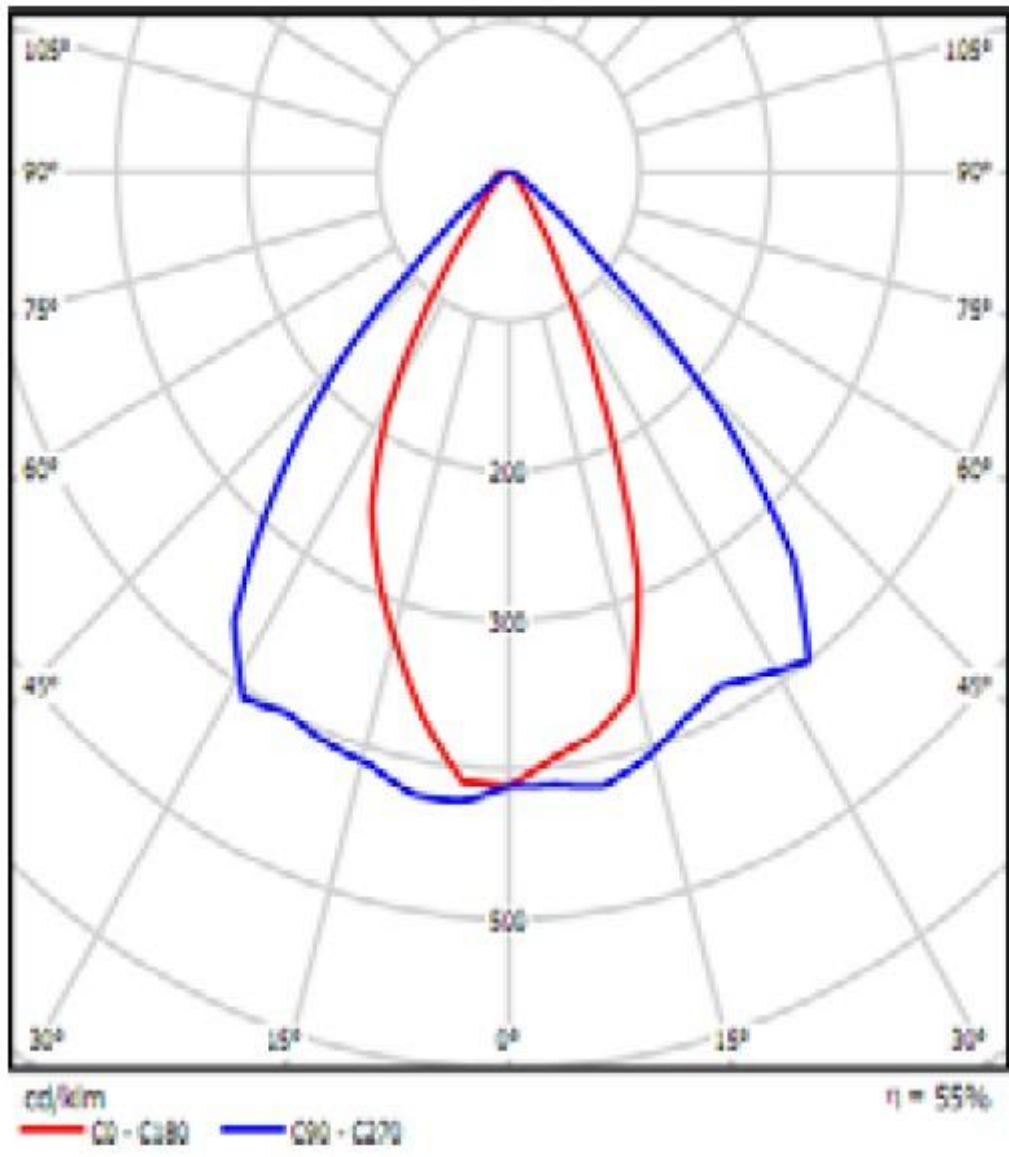


Illuminance Chart

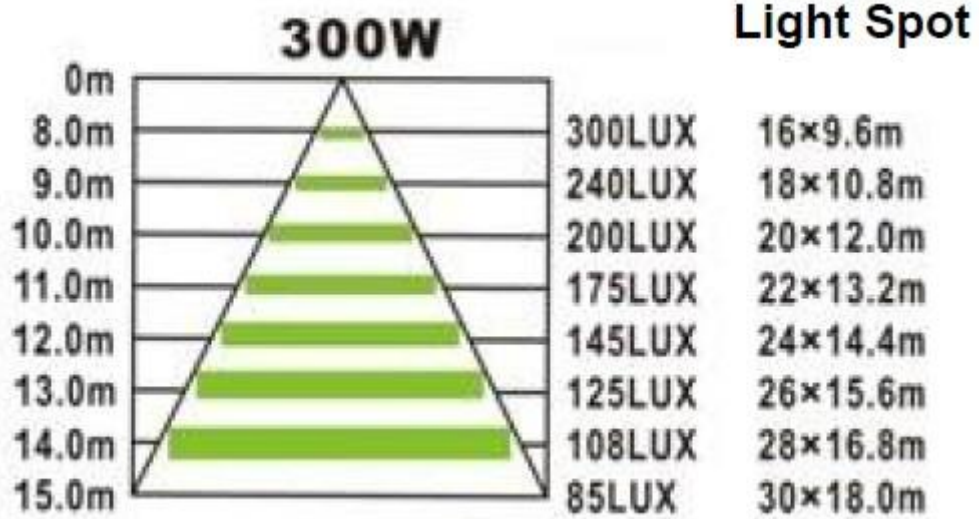
300W LED Flood/Canopy Light
Model FLOOD300EO



Optical Parameters		Electrical Parameters	
LED Chip Input	CREE XPE	Voltage AC	100~240V/100~277V
Light Source CREE	LED Chip of 1~3W	Power Frequency of Driver	47~63Hz
LED Quantity	150	Output Voltage DC	42~56V
Colour Temperature	2700~7000K	Optional Output Current	6.0A (Constant Current)
Luminaire Efficiency	≥94%	Total Power Consumption	328W±8W
Luminous Efficacy	≥80lm/W LED	Power Consumption	284W±8W
Flux	21750~25500lm	Power Efficiency of Driver	≥91%
Colour Rendering Index	≥80	Power Factor	≥0.95
Beam Angle	60°/90°	Dgr Total Harmonic Distortion	≤15%
Heat Sink Surface Temperature	44°C (@ Ambient Temperature 30°C)	Service Life	≥50000Hrs
Base Plate Temperature	46°C (@ Ambient Temperature 30°C)	Light Fixture Material	Aluminium alloy + PC Lens
Working Ambient Temperature	-35~+55°C	IP Rating	IP65
Working Ambient Humidity	15%~90%RH	Net Weight	11.50kg±0.4kg
Storage Ambient Temperature	-30~+65°C	Light Fixture Size	L900mm×W508mm×H125mm
HPS Equivalent	700W/1000W	Package Size	L980mm×W588mm×H210mm

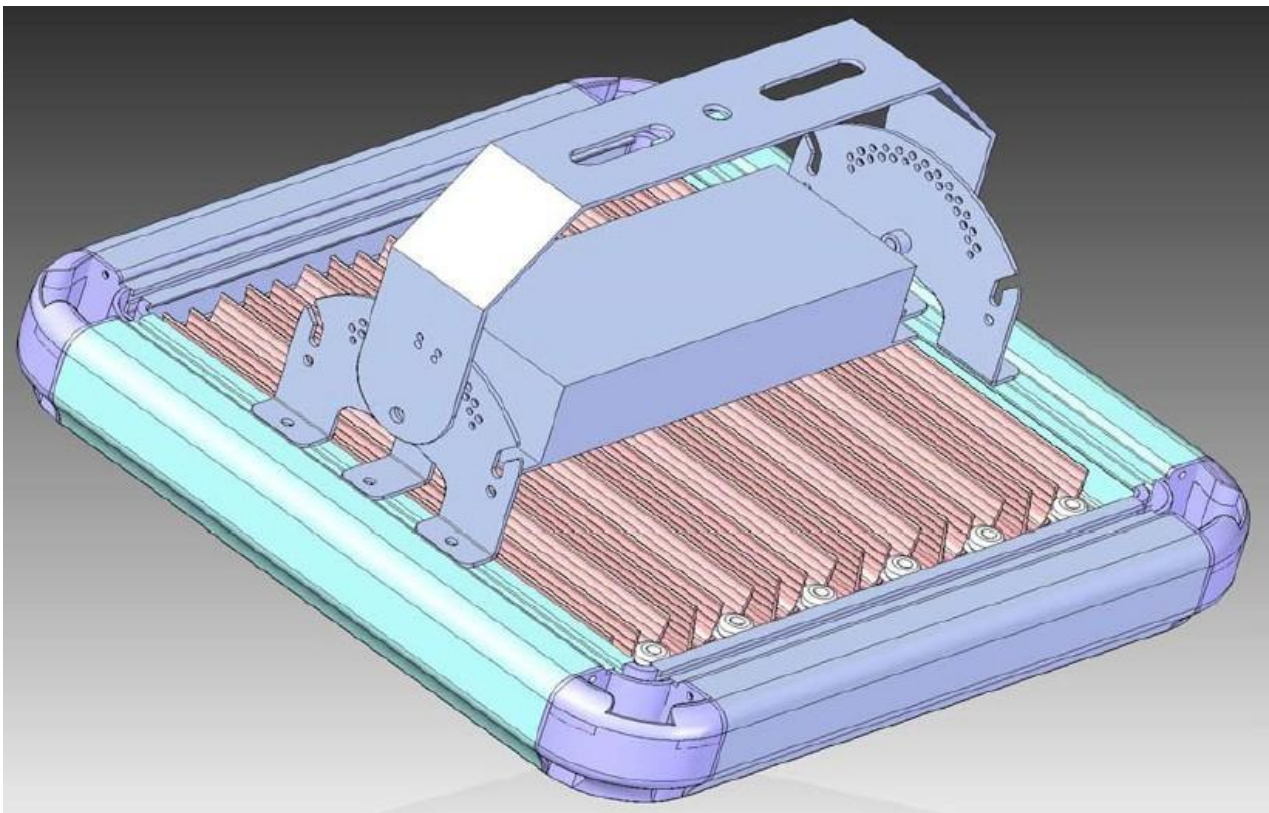
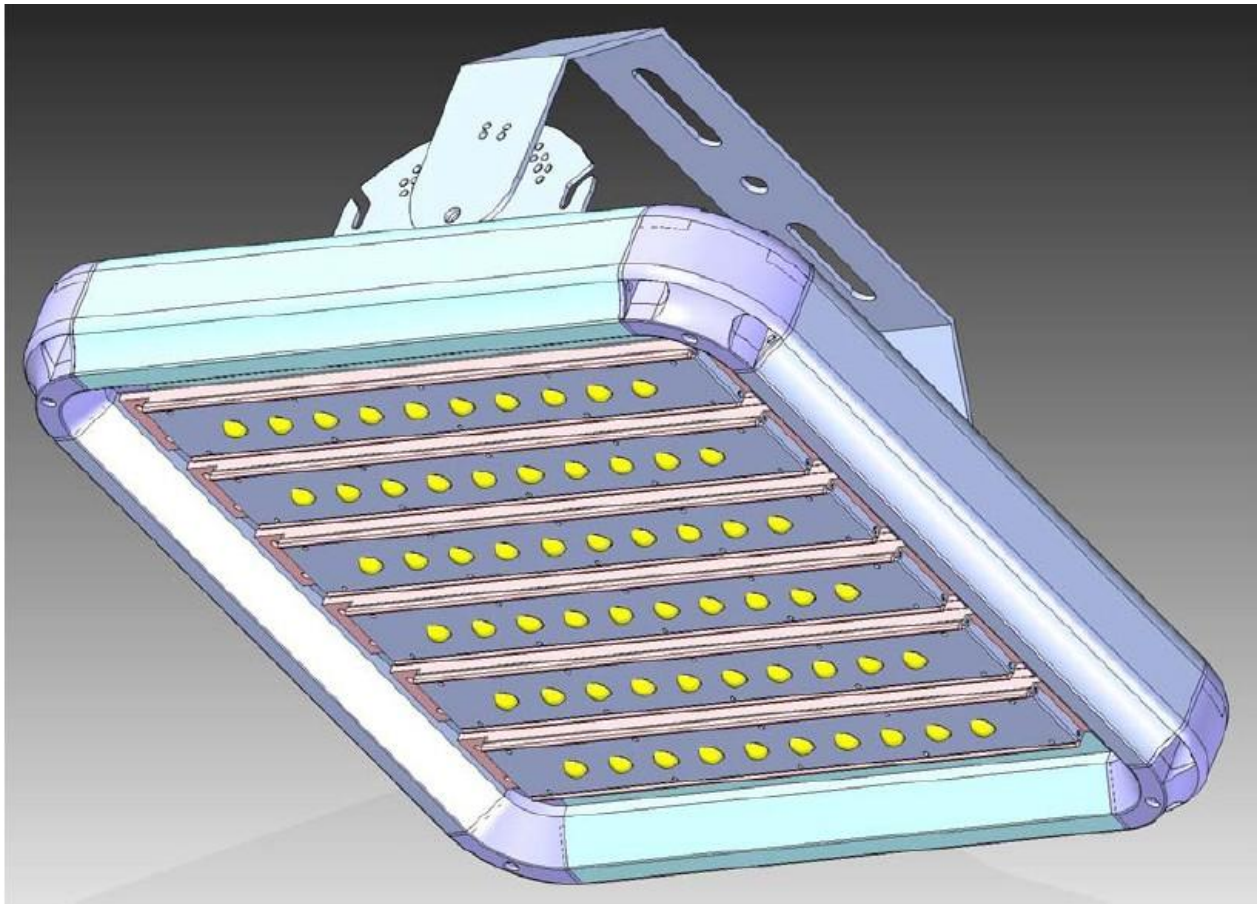


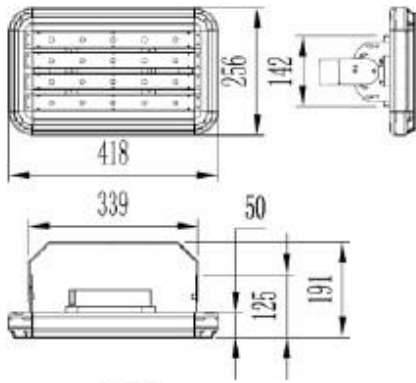
Light Distribution



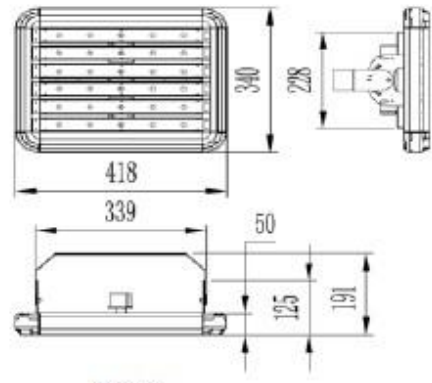
Illuminance Chart

3 Product Profile

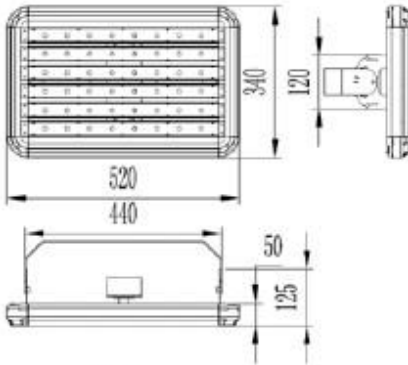




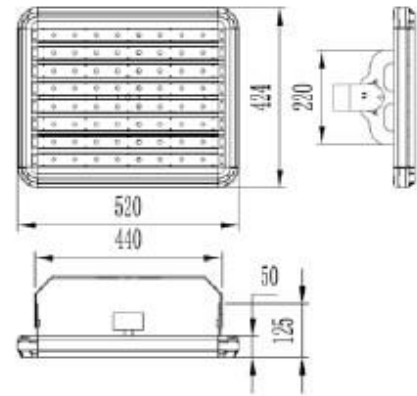
40W



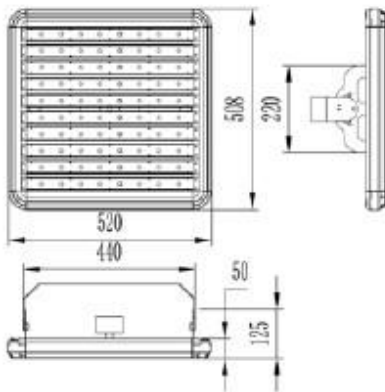
60W



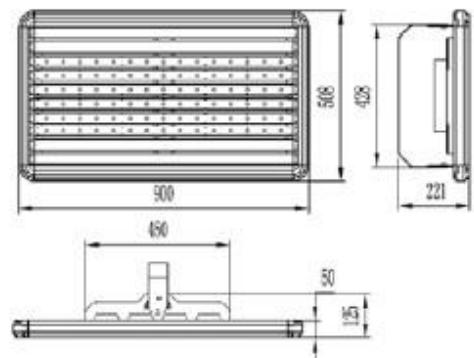
90W



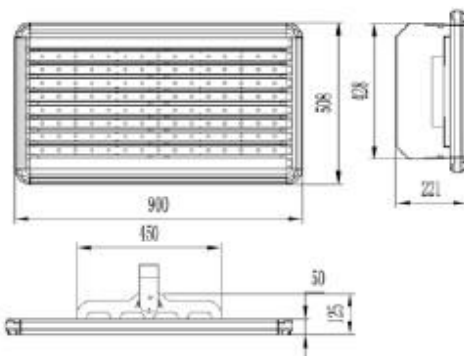
120W



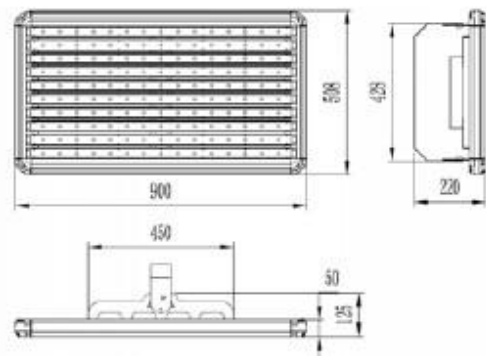
150W



180W



240W



300W

4 Installation Guide

1. Check carefully to ensure all screws and the handle are prepared in the package.



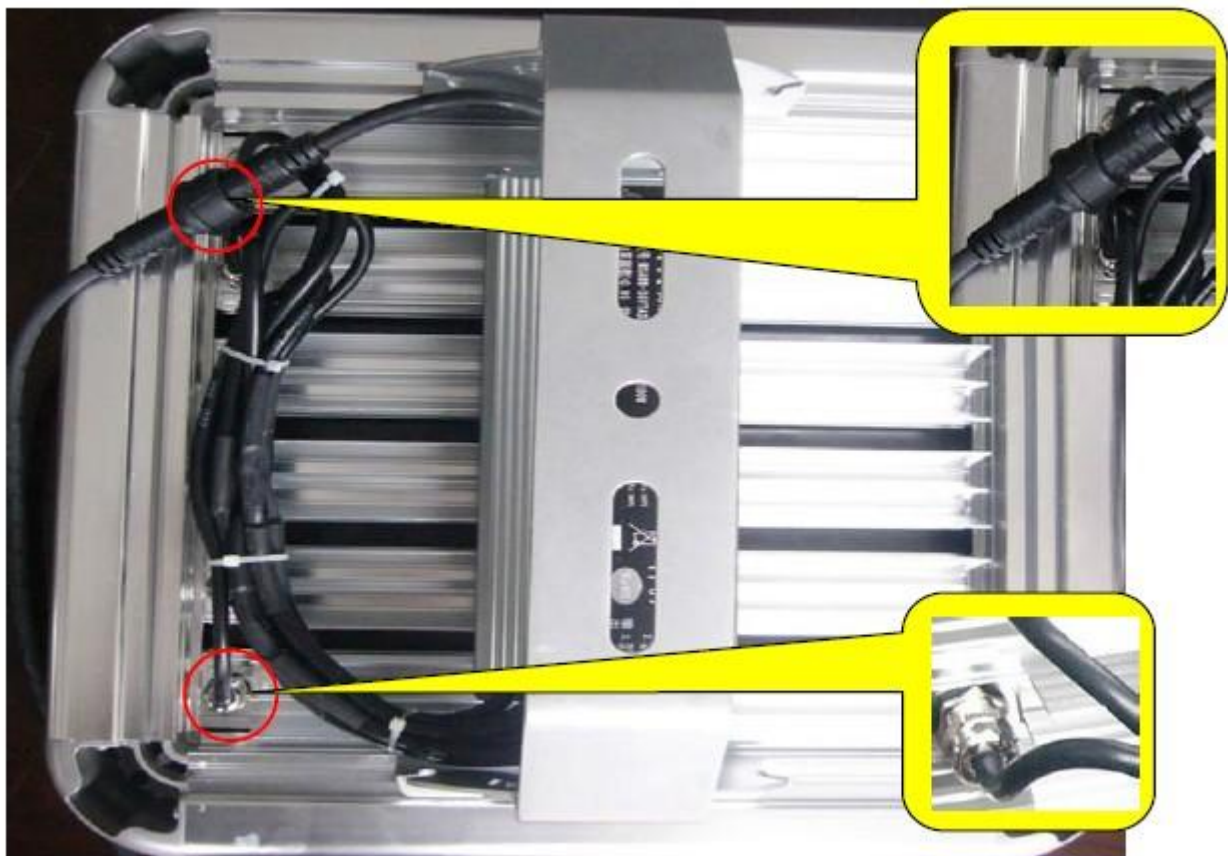
2. Remove the screws from the light bracket



3. Fix the handle to the light body with the screws and ensure all the screws are securely tightened.



4. Double check all the cable connections are properly done before hanging and power up.





Caution:

- Turn off power before cable connection
- Anti-static hand ring is required when replacing any electronics components
- Ensure all the AC power connections are properly done before turning power on.
- Do not touch the power driver when power is on
- Turn off power in case of any maintenance.

5. Troubleshooting

Description	Analysis	Solution
LED lamp doesn't light	1. Check whether the power line connection is right;	1. Reconnect the power line in the right way;
	2. Check whether the power plug is loose;	2. Re-plugged the loose power plug;
	3. Driving power supply failure;	3. Replace with new driver
	4. LED light source has been damaged.	4. Replace with a new LED integrated light source.
LED lamp light output is dim	1. Driver output is abnormal;	1. Replace with new driver;
	2. LED light source supply failure.	2. Replace with new LED light source.
LED lamp is flashing	3. Driver output is abnormal;	3. Replace with new driver;

6 Packaging Information



7 Lamp Comparison - LED vs Conventional

Flux (lm)	Power	Equivalent power of metal halide lamp
3500~4500	40W	120W
5500~6500	60W	180W
6960~8160	90W	250W
9280~10880	120W	400W
11600~13600	150W	400W
13050~15300	180W	700W
17400~20400	240W	700W
21750~25500	300W	1000W

8 Other Products Highlight



LED Bay Light

LED High Bay light reaches 18000 lumens for mounting height up to 20 metres, the 200W LED High Bay light is equivalent to 700W conventional HPS/HID.



The best choice of energy saving, environment friendly and light pollution-free.

LED Garage Lighting

1. 60% power saving, 90% reduction in greenhouse gas emission. Long lifetimes and highly reliable service, greatly reducing maintenance costs.
2. LED's own cut off light property provides high vertical illuminance with minimum glare.
3. For the safety and security of people entering and leaving their vehicles, and easy identification of open parking spaces for traffic flow, vertical illumination in the parking zones is required. This is best approached through direct high angle illumination, combined with ambient indirect lighting to reduce harsh shadows and contrast.

combined with ambient indirect lighting to reduce harsh shadows and contrast.

LED Garage Lighting

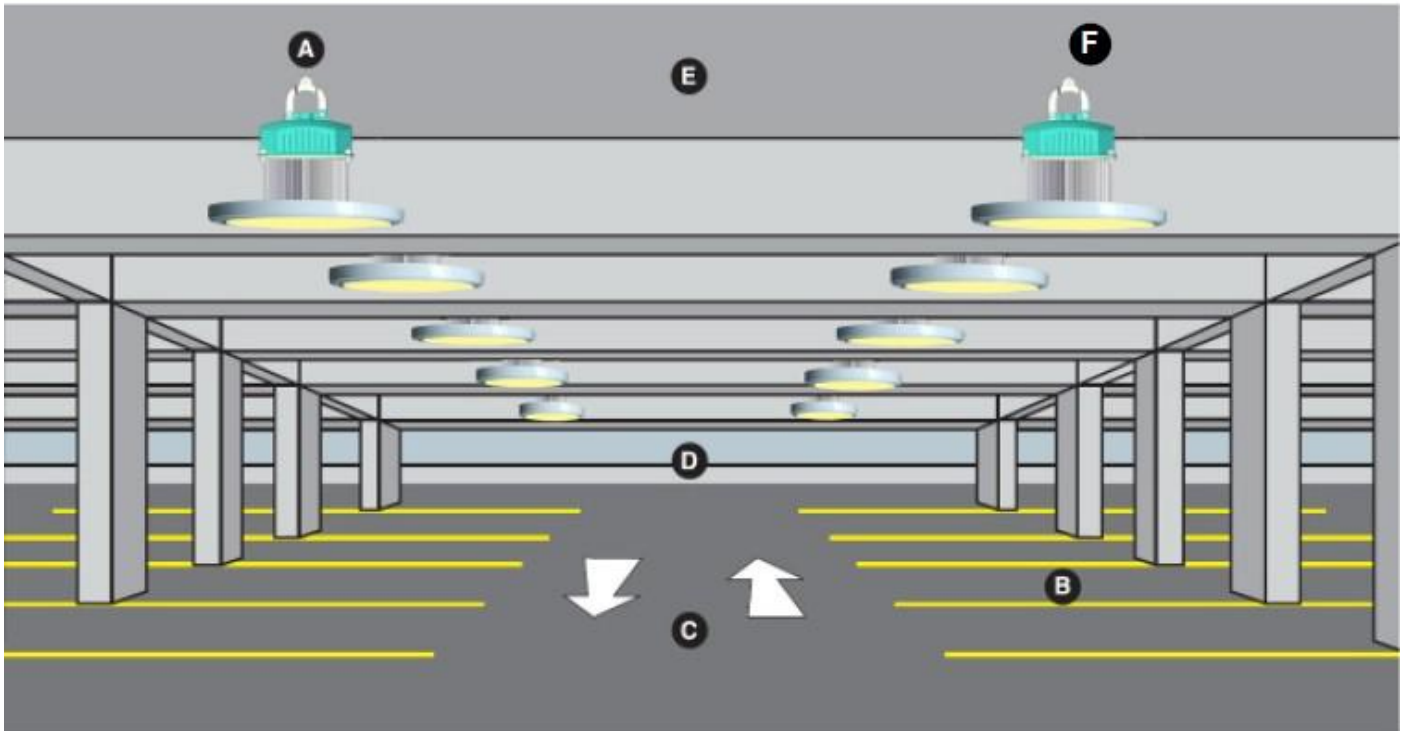
30W/60W/80W/100W LED Light, replacing 80W-250W HPS/HID



Complus Trading

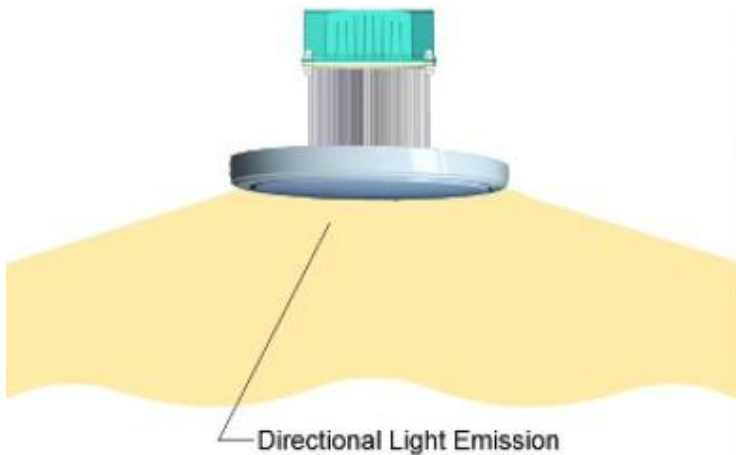
Vabaõhumuuseumi tee 2A-14, 13522 Tallinn, Estonia

Features



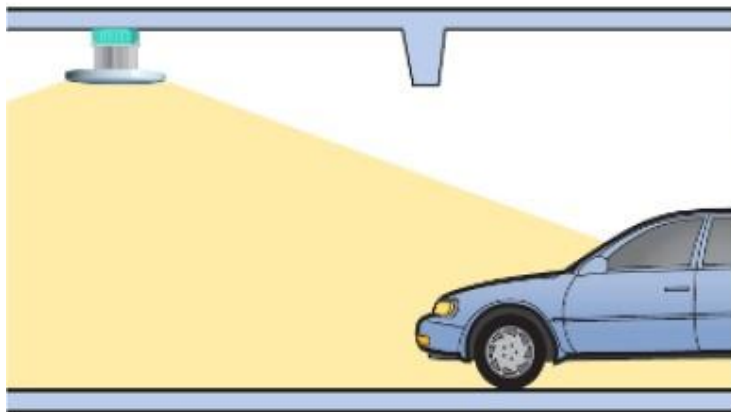
- A** 60% power saving, 90% reduction in greenhouse gas emission. Long lifetimes and highly reliable service, greatly reducing maintenance costs.
- B** For the safety and security of people entering and leaving their vehicles, and easy identification of open parking spaces for traffic flow, vertical illumination in the parking zones is required. This is best approached through direct high angle illumination, combined with ambient indirect lighting to reduce harsh shadows and contrast.
- C** LED's own cut off light property provides high vertical illuminance with minimum glare.
- D** Visibility of the facility must provide an inviting appearance with no glare to surrounding properties. The combination of indirect illumination of the garage interior and cut off optical control, provides the most attractive presentation from the exterior of the garage.
- E** Not affected by most vibrations and typical temperature variations.
- F** Various colour temperatures available from "warm" to "cool" with high CRI providing high quality lighting effect(2700K - 7000K).





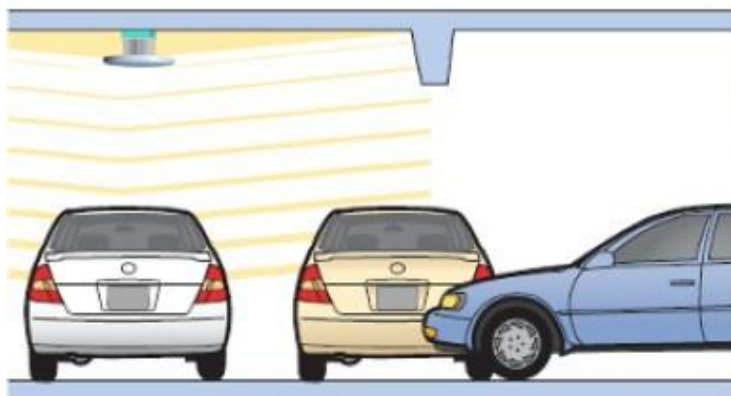
Superior Luminaire Efficiency:

Comparing with conventional HPS, which emits combination of visible and invisible light with 360 degree beam angle, LED light emits 100% visible light to be fully projected towards the target. Thus, luminaire efficiency of LED light is 2.5 times to conventional HPS/HID. 30W LED bay light is equivalent to 80W fluorescent light or CFL, and 60W LED light is equivalent to 150W HPS or HID.



Cutoff Downlight:

Directional lighting property of LED brings cutoff down light, which provides overall illumination with low glare. A balance of providing high vertical illuminance and drive lane comfort is accomplished by LED design that all light is projected to useful zones without any lose at unwanted area.



High Illuminance and High CRI:

High vertical illuminance and high CRI of LED light improves visibility and provides a sense of security and safety.

Configurations



Speed Mounting Design



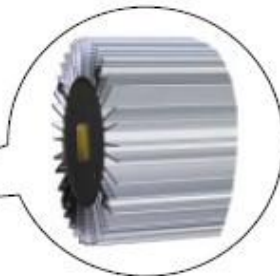
Dedicated Power Driver

*Input Voltage of wide range:
110V - 277V

*Stable & Long Life

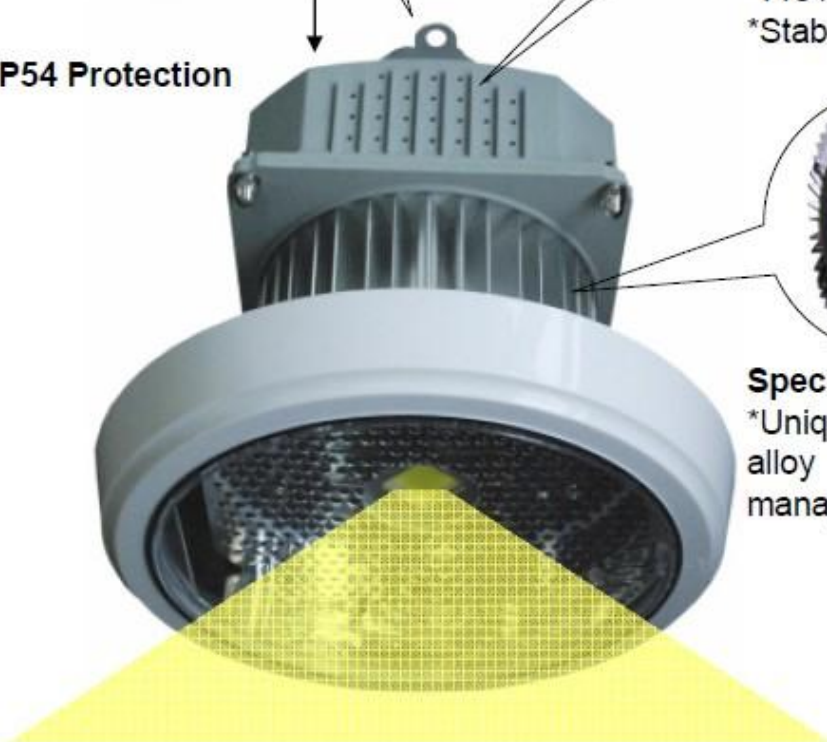
Die Cast Housing

IP30 / IP54 Protection



Specially Designed Heat Sink

*Unique design with aluminum alloy ensures superior heat management.



High Illuminance Integrated LED

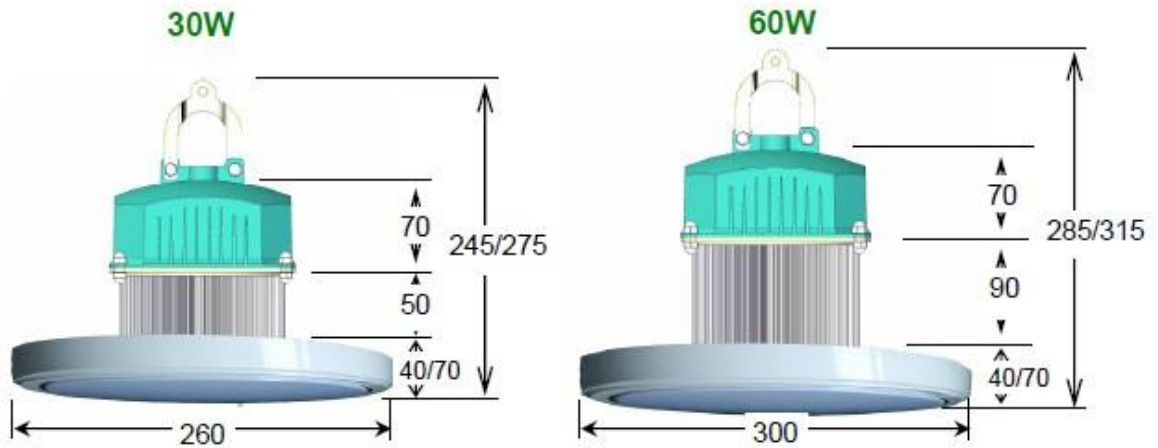
*Provides high illuminance of directional downlight.

*Cutoff down light provides overall illuminance with low glare.

*No light pollution or waste.

*50000 hours service life.

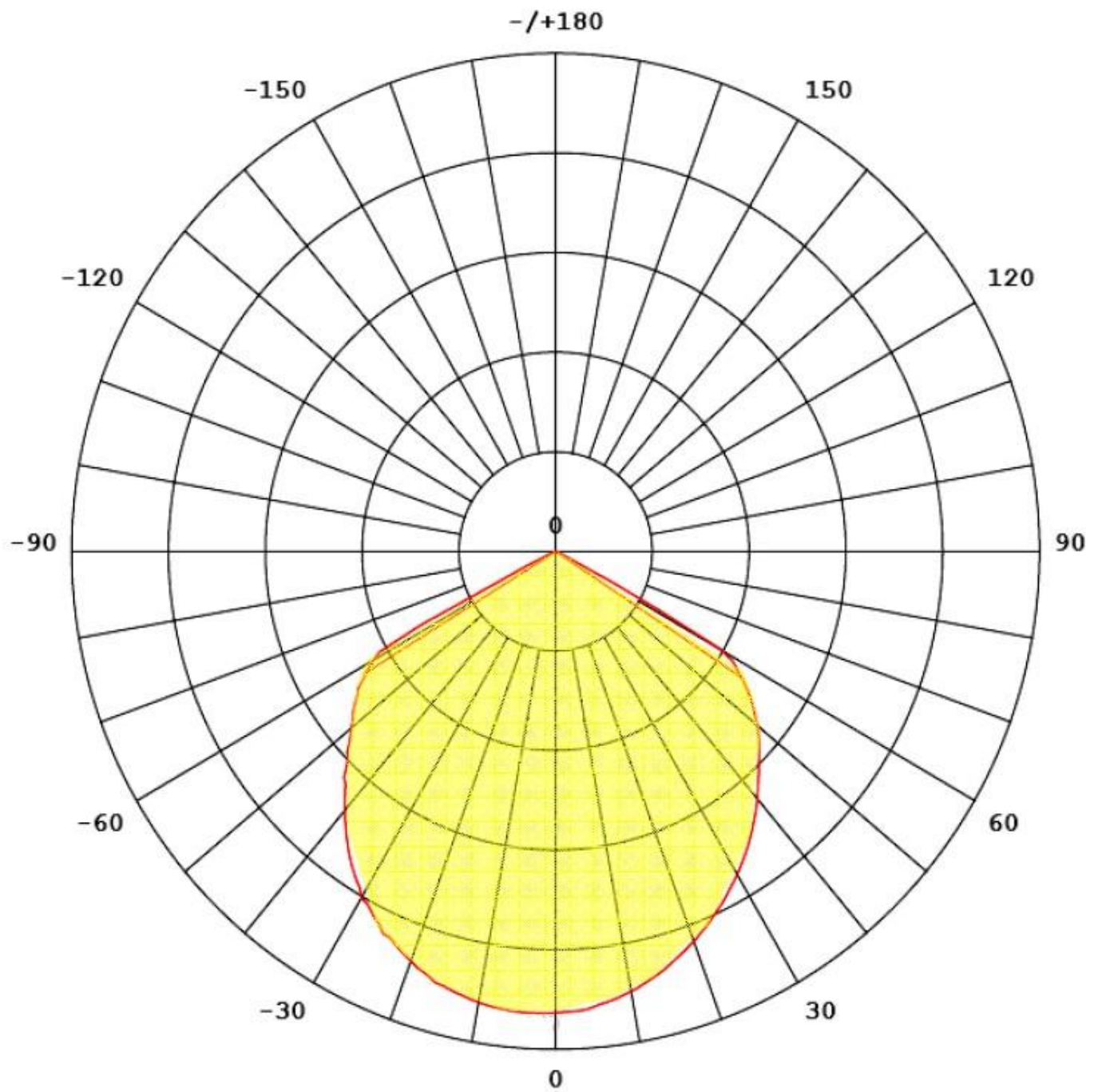
Specifications



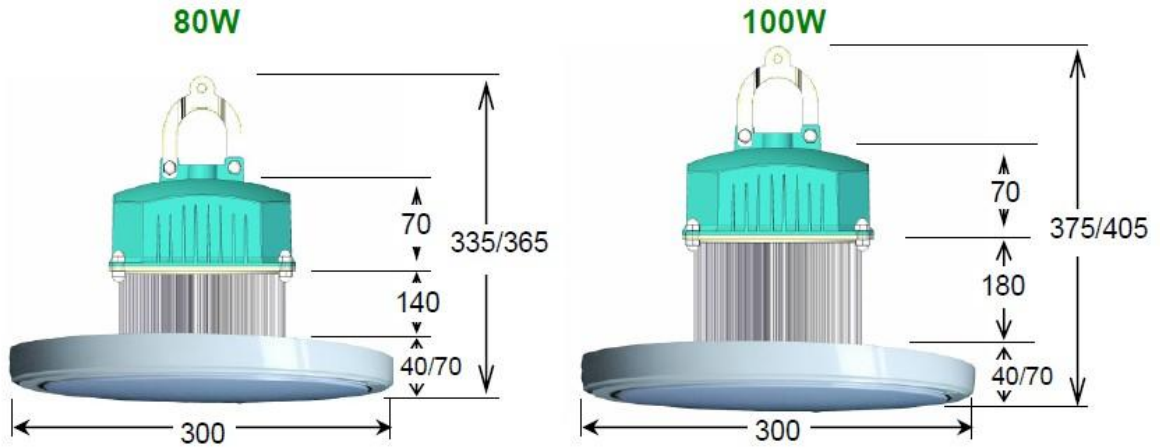
Specifications	Product Code	
	Garage30EO	Garage60EO
Input Voltage	110V - 277V	
Power Frequency	50HZ - 60HZ	
Power Efficiency	>85%	
LED Power Consumption	30W	60W
Power Factor(PF)	>95%	
Max Input Amps	0.16	0.32
Total Harmonic Distortion	<15%	
Luminaire Efficiency	80 lm/W	
Flux	2400 lm	4500 lm
Colour Rendering Index(CRI)	Ra>80	
Colour Temperature	2700K - 7000K	
Beam Angle	120°	
HPS/HID Equivalent	80W HPS/HID	180W HPS/HID
IP Rating	IP30/IP54	
Working Ambient Temperature	-25 ~ +45°C	
Working Ambient Humidity	15% ~ 90%	
Lamp Fixture Material	Aluminium Alloy	

Light Distribution Polar Diagram

- Wide distribution with high illuminance intensity.
- Cut off light control ensures brightness and low glare.



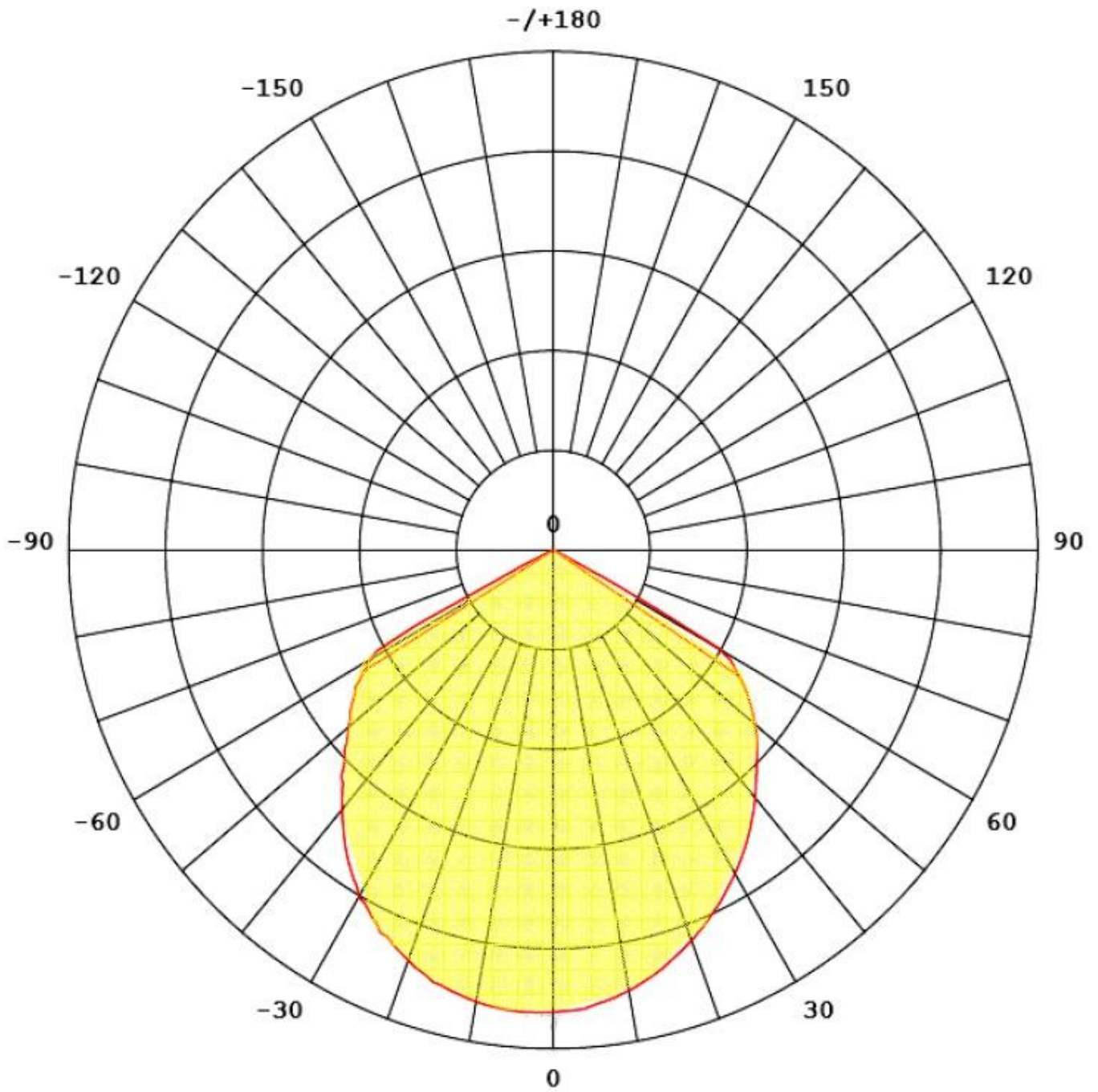
Specifications



Specifications	Product Code	
	Garage80EO	Garage100EO
Input Voltage	110V - 277V	
Power Frequency	50HZ - 60HZ	
Power Efficiency	>85%	
LED Power Consumption	80W	100W
Power Factor(PF)	>95%	
Max Input Amps	0.16	0.32
Total Harmonic Distortion	<15%	
Luminaire Efficiency	75 lm/W	72 lm/W
Flux	6000 lm	7200 lm
Colour Rendering Index(CRI)	Ra>80	
Colour Temperature	2700K - 7000K	
Beam Angle	120°	
HPS/HID Equivalent	200W HPS/HID	250W HPS/HID
IP Rating	IP30/IP54	
Working Ambient Temperature	-25 ~ +45°C	
Working Ambient Humidity	15% ~ 90%	
Lamp Fixture Material	Aluminium Alloy	

Light Distribution Polar Diagram

- Wide distribution with high illuminance intensity.
- Cut off light control ensures brightness and low glare.



Installation Guide

Step 1: Unpack



Removed from package

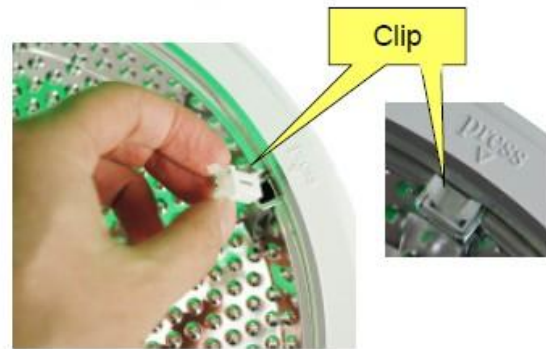
Step 2: Unscrew and remove the 4 bolts at the core assembly.



Step 3: Fix the reflector to the core assembly by screwing 4 bolts.



Step 4: Insert the clip into the socket at the reflector.



Step 5: Cover the reflector with diffuser.





Diffuser D1-
D300mm x H40mm
Milky color



Diffuser D2-
D300mm x H40mm
Droplet transparent



Diffuser D3-
D300mm x H70mm
Semi- transparent

The best choice of energy saving, environment friendly and light pollution-free.