CROSS™
2nd Gen

The Cross 2nd Gen Corncob from Beyond LED Technology is the newest, most innovative and feature-rich product of 2024. Cross 2nd Gen corn lights are wattage-adjustable corn bulbs designed for fully enclosed fixtures. Cross 2nd Gen Corn bulbs are meant to save energy in fixtures that formerly utilized metal halide or high-pressure sodium lights while maintaining a high Lumen output. These high-output LEDs are ideal for post top lights, shoebox fixtures and other high intensity lighting.

Product Features

- Up to 142 lumens per watt
- Wattage & CCT Adjustable
- Enclosure provides a water-tight seal making it suitable for outdoor application
- Integral LED driver (non-isolated), eliminates the need for an external driver or ballast
- High Quality and Efficacy Lumiled 2835 chips
- This product is IP64 rated, therefore, it is water-proof and dust proof rating

- Universal operation at 100-277Vac 50-60Hz
- High-reliability internal driver
- Direct replacement for Metal Halide
- Damp Location
- PC+Aluminum Housing
- 5 Year warranty
- UL & DLC Listed

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SKU #	Model #	Base	Wattage Adjustable	Lumens	CCT Adjustable	IP	Housing	Input Voltage	Certifications
156814	AST-CLW08C-36WBCN A1-EXSPCA30/40/50K	E26	18W/27W/ 36W	Max 5112LM	3K/4K/5K	IP64	White	100V-277V	UL & DLC
156815	AST-CLW08C-63WBCN A1-EXSPCA30/40/50K	EX39	36W/54W/ 63W	Max 8946LM	3K/4K/5K	IP64	White	100V-277V	UL & DLC
156768	AST-CLW08C-120WBCN A1-EXSPCA30/40/50K	EX39	80W/100W/ 120W	Max 17040Lm	3K/4K/5K	IP64	White	100V-277V	UL
156816	AST-CLW08C-200WBCN A1-EXSPCA30/40/50K	EX39	80W/150W/ 200W	Max 28400Lm	3K/4K/5K	Damp Location	White	100V-277V	UL & DLC

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LED CORNCOB BULB

SKU # 156814 — Specifications

Parameter	Description	Value
General Performance	Model #.	AST-CLW08C-36WBCNA1-EXSPCA30/40/50K
	Wattage Adjustable	18W / 27W / 36W
	Color Temperature	3000K / 4000K / 5000K
	Lumens Adjustable	Max 5112Lm
	Lumen Efficacy	Up to 142 LM/W
	CRI (Ra)	>80
	Diffuser Type	Clear
Electrical	Beam Angle	193º Degree
	Input Voltage	100-277V
	Frequency	50/60Hz
	Dimming	0-10V Dimmable
	PF	≥0.9
	THD	≤20%
	Flicker Percent	<50%
Physical	Equivalent	80W CFL, 150W MHL/HPS/HID
	Driver Surge Protection	L-N: 4kV
	Operating Temperature	-40°C TO 50°C
	Storage Temperature	-40°C TO 80°C
	Operating Humidity	20% - 70% RH
	Storage Humidity	10% - 75% RH
	LED Brand	Lumileds
	LED Type	SMD2835
	LEDs QTY	144 PCS
Qualification	Housing	PC + Aluminum
	Housing Color	White
	IP Rating	IP64
	Warranty	5 Year

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SKU # 156815   Specifications

Parameter	Description	Value
General Performance	Model #.	AST-CLW08C-63WBCNA1-EXSPCA30/40/50K
	Wattage Adjustable	36W / 54W / 63W
	Color Temperature	3000K / 4000K / 5000K
	Lumens Adjustable	Max 8946Lm
	Lumen Efficacy	Up to 142 LM/W
	CRI (Ra)	>80
	Diffuser Type	Clear
Electrical	Beam Angle	189° Degree
	Input Voltage	100-277V
	Frequency	50/60Hz
	Dimming	0-10V Dimmable
	PF	≥0.9
	THD	≤20%
	Flicker Percent	<50%
Physical	Equivalent	120W CFL, 175W MHL/HPS/HID
	Driver Surge Protection	L-N: 4kV
	Operating Temperature	-40°C TO 50°C
	Storage Temperature	-40°C TO 80°C
	Operating Humidity	20% - 70% RH
	Storage Humidity	10% - 75% RH
	LED Brand	Lumileds
	LED Type	SMD2835
	LEDs QTY	272 PCS
Qualification	Housing	PC + Aluminum
	Housing Color	White
	IP Rating	IP64
	Warranty	5 Year

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SKU # 156768   Specifications

Parameter	Description	Value
General Performance	Model #.	AST-CLW08C-120WBCNA1-EXSPCA30/40/50K
	Wattage Adjustable	80W / 100W / 120W
	Color Temperature	3000K / 4000K / 5000K
	Lumens Adjustable	Max 17040Lm
	Lumen Efficacy	Up to 142 LM/W
	CRI (Ra)	>80
	Diffuser Type	Clear
Electrical	Beam Angle	150° Degree
	Input Voltage	120-277V
	Frequency	50/60Hz
	Dimming	0-10V Dimmable
	PF	≥0.9
	THD	≤20%
	Flicker Percent	<5%
Physical	Equivalent	200W CFL, 400W MHL/HPS/HI
	Driver Surge Protection	L-N: 6kV
	Operating Temperature	-40°C TO 50°C
	Storage Temperature	-40°C TO 80°C
	Operating Humidity	20% - 70% RH
	Storage Humidity	10% - 75% RH
	LED Brand	Lumileds
	LED Type	SMD2835
	LEDs QTY	494 Pcs
Qualification	Housing	PC + Aluminum
	Housing Color	White
	IP Rating	IP64
	Warranty	5 Year

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SKU # 156816   Specifications

Parameter	Description	Value
General Performance	Model #.	AST-CLW08C-200WBCNA1-EXSPCA30/40/50K
	Wattage Adjustable	80W / 150W / 200W
	Color Temperature	3000K / 4000K / 5000K
	Lumens Adjustable	Max 28400Lm
	Lumen Efficacy	Up to 142 LM/W
	CRI (Ra)	>80
	Diffuser Type	Clear
Electrical	Beam Angle	182.5º Degree
	Input Voltage	100-277V
	Frequency	50/60Hz
	Dimming	0-10V Dimmable
	PF	≥0.9
	THD	≤20%
	Flicker Percent	<30%
Physical	Equivalent	600W MHL/HPS/HID
	Driver Surge Protection	L-N: 6kV
	Operating Temperature	-40°C TO 50°C
	Storage Temperature	-40°C TO 80°C
	Operating Humidity	20% - 70% RH
	Storage Humidity	10% - 75% RH
	LED Brand	Lumileds
	LED Type	SMD2835
	LEDs QTY	455 Pcs
Qualification	Housing	PC + Aluminum
	Housing Color	White
	IP Rating	DAMP Location
	Warranty	5 Year

LED CORNCOB BULB

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Correlated Color Temperature (CCT)

COOL WHITE

5000K

4000K

NATURAL WHITE

3000K

WARM WHITE

Dimensions

36W - E26
8.42"
Ø3.34"

63W - EX39
11.23"
Ø3.35"

120W - EX39
11.26"
Ø5.12"

200W - EX39
10.63"
Ø5.6"
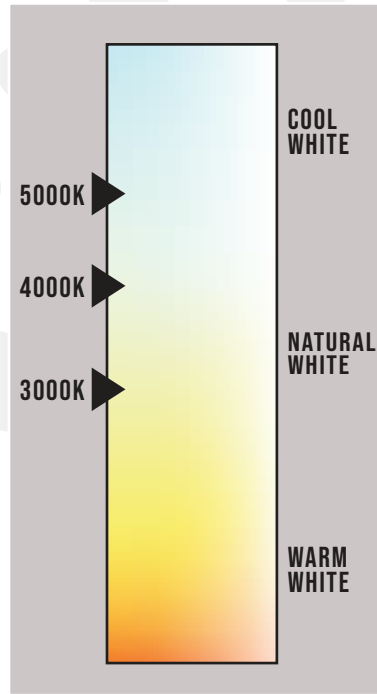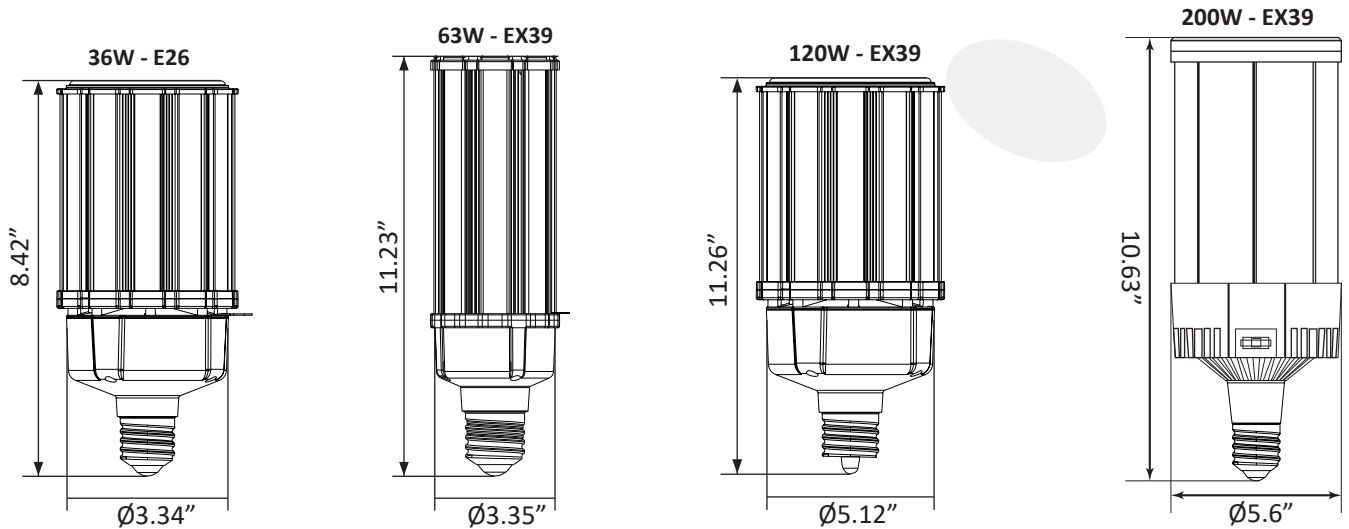
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SKU: 156814 — Light Distribution Testing Parameters

Remark: The testing data comes from the product in luminaires.

Luminaire Property

Luminaire Manufacture:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
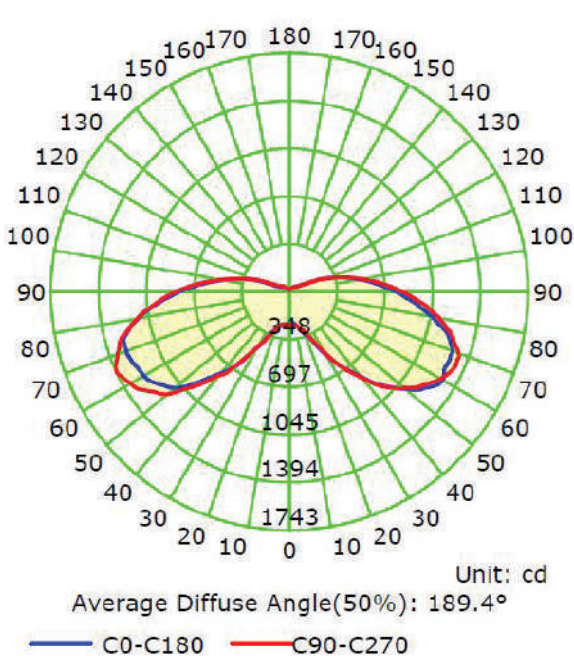Luminous Height (mm):
Current: 0.285 A
Power Factor: 0.985

Luminaire Description:
Lamp Description:
Luminous of Lamps:
Luminous Width (mm):
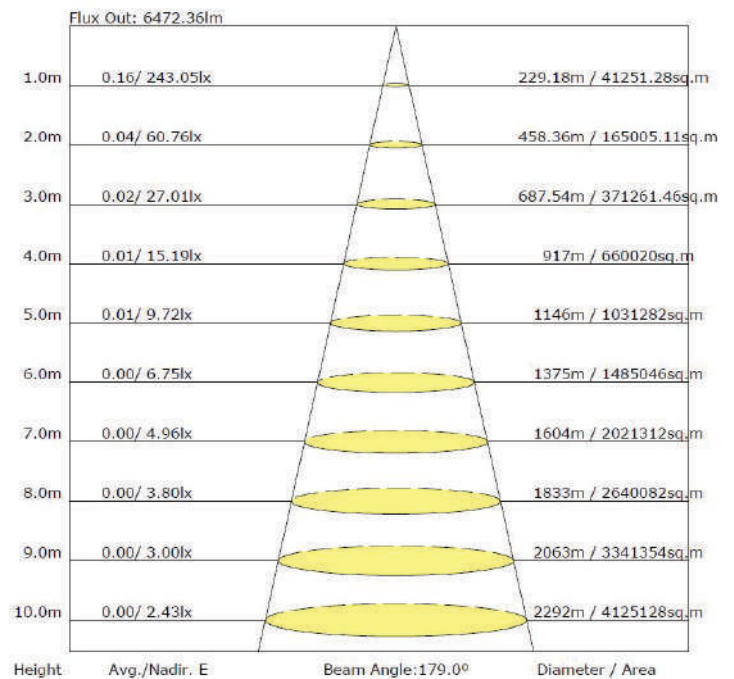Voltage: 120.0 V
Power: 33.72 W

Photometric Results

IES Classification: Type I
Total Rated Lamp Lumens: 4203.3 lm
Efficiency: 100%
Upward Ratio: 21%
C0r0 Intensity: 134.73 cd
Pos of Max. Intensity: H315 V71

Longitudinal Classification: Short
Measurement Flux: 4203.3 lm
Downward Ratio: 79%
Luminaire Efficacy Rating (LER): 124.70
Max. Intensity: 761.39 cd

Luminous Intensity Distribution Curve

190
380
571
761
951

Unit: cd

Average Diffuse Angle(50%): 193.0°

—— C0-C180   —— C90-C270

The Average Illuminance Effective Figure

Flux Out: 3641.17lm

Height	Avg./Nadir. E	Diameter / Area
1.0m	0.09/ 134.73lx	229.18m / 41251.28sq.m
2.0m	0.02/ 33.68lx	458.36m / 165005.11sq.m
3.0m	0.01/ 14.97lx	687.54m / 371261.46sq.m
4.0m	0.01/ 8.42lx	917m / 660020sq.m
5.0m	0.00/ 5.39lx	1146m / 1031282sq.m
6.0m	0.00/ 3.74lx	1375m / 1485046sq.m
7.0m	0.00/ 2.75lx	1604m / 2021312sq.m
8.0m	0.00/ 2.11lx	1833m / 2640082sq.m
9.0m	0.00/ 1.66lx	2063m / 3341354sq.m
10.0m	0.00/ 1.35lx	2292m / 4125128sq.m

Beam Angle:179.0°

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SKU: 156815 — Light Distribution Testing Parameters

Remark: The testing data comes from the product in luminaires.

Luminaire Property

Luminaire Manufacture:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
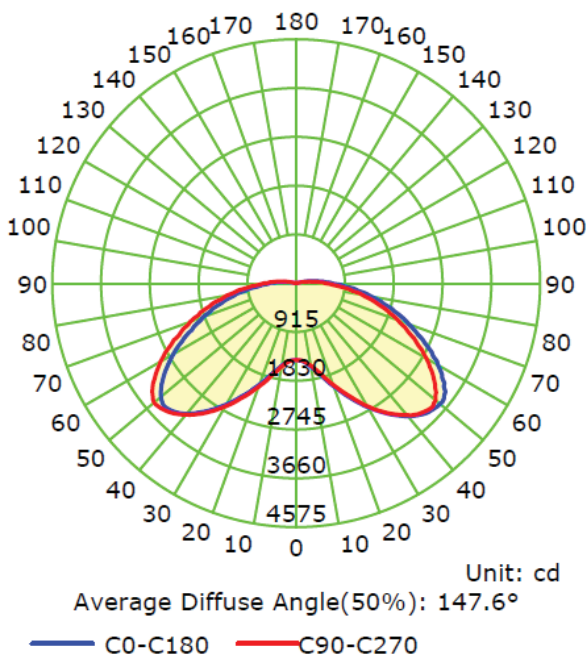Luminous Height (mm):
Current: 0.530 A
Power Factor: 0.992

Luminaire Description:
Lamp Description:
Luminous of Lamps:
Luminous Width (mm):
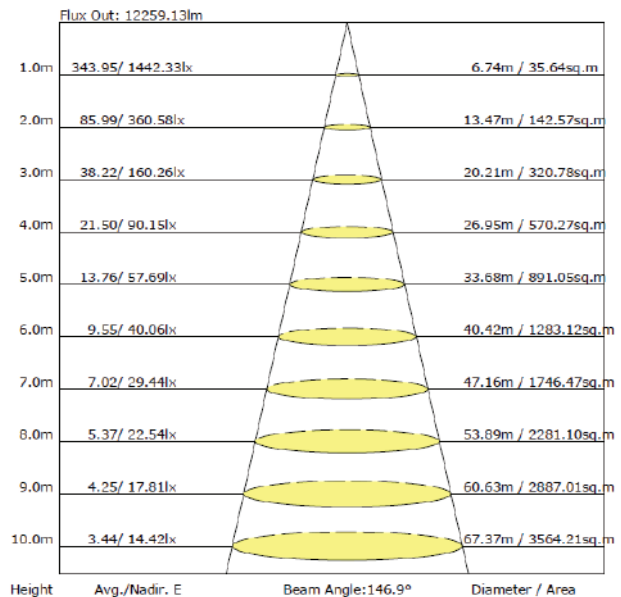Voltage: 120.0 V
Power: 63.08 W

Photometric Results

IES Classification: Type I
Total Rated Lamp Lumens: 7603.6 lm
Efficiency: 100%
Upward Ratio: 20%
C0r0 Intensity: 243.05 cd
Pos of Max. Intensity: H270 V65

Longitudinal Classification: Very Short
Measurement Flux: 7603.6 lm
Downward Ratio: 80%
Luminaire Efficacy Rating (LER): 120.59
Max. Intensity: 1394.54 cd

Luminous Intensity Distribution Curve

348
697
1045
1394
1743

Unit: cd

Average Diffuse Angle(50%): 189.4°

— C0-C180 — C90-C270

The Average Illuminance Effective Figure

Flux Out: 6472.36lm

Height	Avg./Nadir. E	Diameter / Area
1.0m	0.16/ 243.05lx	229.18m / 41251.28sq.m
2.0m	0.04/ 60.76lx	458.36m / 165005.11sq.m
3.0m	0.02/ 27.01lx	687.54m / 371261.46sq.m
4.0m	0.01/ 15.19lx	917m / 660020sq.m
5.0m	0.01/ 9.72lx	1146m / 1031282sq.m
6.0m	0.00/ 6.75lx	1375m / 1485046sq.m
7.0m	0.00/ 4.96lx	1604m / 2021312sq.m
8.0m	0.00/ 3.80lx	1833m / 2640082sq.m
9.0m	0.00/ 3.00lx	2063m / 3341354sq.m
10.0m	0.00/ 2.43lx	2292m / 4125128sq.m

Beam Angle:179.0°

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SKU: 156768 — Light Distribution Testing Parameters

Remark: The testing data comes from the product in luminaires.

Luminaire Property

Luminaire Manufacture:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 1.017 A
Power Factor: 0.993

Luminaire Description:
Lamp Description:
Luminous of Lamps:
Luminous Width (mm):
Voltage: 120.0 V
Power: 121.21 W

Photometric Results

CIE Class: Direct
Measurement Flux: 14835.9 lm
Downward Ratio: 97%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315 : 191.3, 191.4, 191.9, 190.7
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315) : 146.9, 148.3, 148.1, 145.7
Luminaire Efficacy Rating (LER) : 122.45
Max. Intensity : 3660.22 cd
S/MH(C0/C180) : 2.66

Total Rated Lamp Lumens: 14835.9 lm
Efficiency: 100%
Upward Ratio: 3%

C0r0 Intensity: 1442.33 cd
Pos of Max. Intensity: H315 V52
S/MH(C90/C270) : 2.66

Luminous Intensity Distribution Curve

915
1830
2745
3660
4575

Unit: cd

Average Diffuse Angle(50%): 147.6°

— C0-C180   — C90-C270

The Average Illuminance Effective Figure

Flux Out: 12259.13lm

Height	Avg./Nadir. E	Beam Angle:146.9°	Diameter / Area
1.0m	343.95/ 1442.33lx		6.74m / 35.64sq.m
2.0m	85.99/ 360.58lx		13.47m / 142.57sq.m
3.0m	38.22/ 160.26lx		20.21m / 320.78sq.m
4.0m	21.50/ 90.15lx		26.95m / 570.27sq.m
5.0m	13.76/ 57.69lx		33.68m / 891.05sq.m
6.0m	9.55/ 40.06lx		40.42m / 1283.12sq.m
7.0m	7.02/ 29.44lx		47.16m / 1746.47sq.m
8.0m	5.37/ 22.54lx		53.89m / 2281.10sq.m
9.0m	4.25/ 17.81lx		60.63m / 2887.01sq.m
10.0m	3.44/ 14.42lx		67.37m / 3564.21sq.m

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Installation

LED Corn Light Instruction

Can not use the electric generator to test the LED lamp. Please avoid using the led fixture in environment where there is smoke, sulfur, and corrosive substances. But if used in such environment, make sure the led fixture is well protected by an enclosed lampshade whose dimension is no less than below size, and whose material is either glass or semi-glass, semi-metallic. Surface of the lampshade shall not have any covering which prevents heat dissipation.

Watt	18W	27W	36W	45/54W	63/80W
Volume (IN)	12.60x7.48 x7.48	13.38x7.87x7.87	15 x7.87x7.87	16.53x8.26x8.26	16.53x9.05x9.05

Watt	100W	120W	150W	170W	200W
Volume (IN)	17.32x9.45x9.45	17.32x10.23x10.23	11.81x11.81x18.50	11.81x11.81x18.50	11.81x11.81x18.50

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Installation Instructions

Warning: Please make sure the power is off before installation.
1. Turn off the power switch.
2. Screw off the CFL or MHL or HPS and so on, see Figure (5)(6).
3. Take out led corn light and screw on, see Figure (1)(2)(3)(4). Figure (1)(2) (3) (4):AC internal driver,
(Note: Pls make sure to take off the ballast before installing led corn light, otherwise the ballast will produce the resonance of high voltage and makes led corn light breakdown.)
4.If security rope provided, pls fix the rope on the lamp with hand, then fix the wire of other end on the shell, see Figure(2) (4).
5. Turn on the power switch.(Finished!)

Buckle on the lamp

2.PUSH

1.ROTATE

2.PUSH

1.ROTATE

3.TIGHTEN
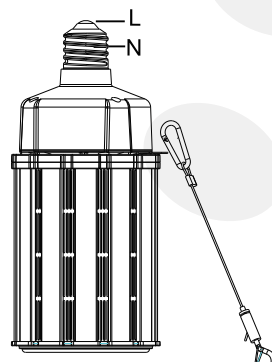
Figure(1)   Figure(2)   Figure(3)   Figure(4)

Security Rope

Security Rope

Figure(6)

CFL   LED(In-driver)

Figure(7)

MHL / HPS   LED(In-driver)

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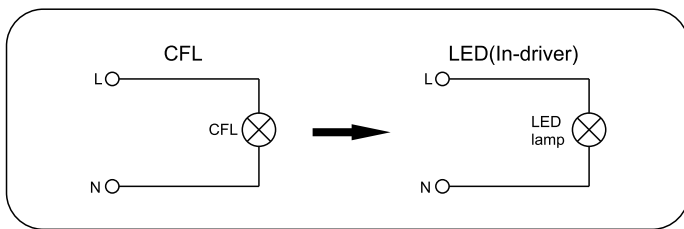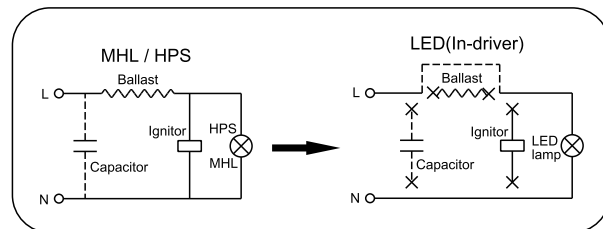
Wattage Adjustable
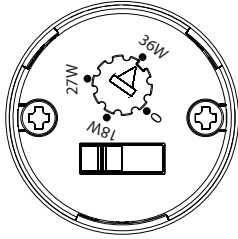
Wattage Adjustable
18W / 27W / 36W
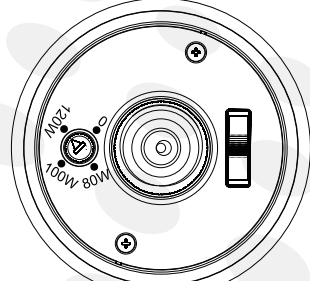
Wattage Adj. 80W / 100W / 120W
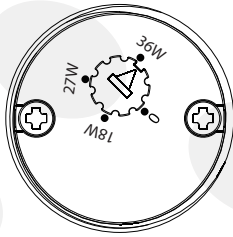
CCT 5000K
Wattage Adj.
27W-63W
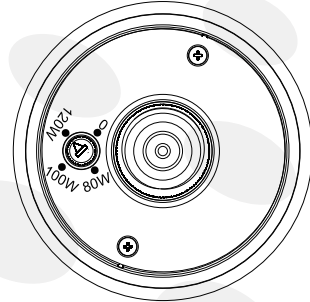
Wattage Adj.
80-120W
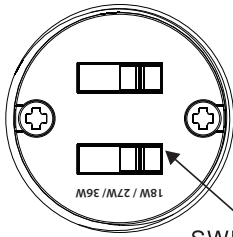
SWITCH

Wattage Adj.
18W / 27W/ 36W
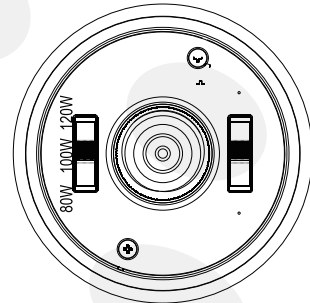
Wattage Adj.
80W-120W
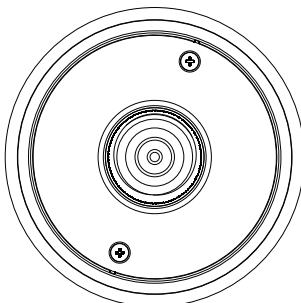
Wattage Adj.
80W-120W
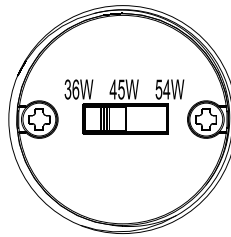
Wattage Adj. 36W-54W
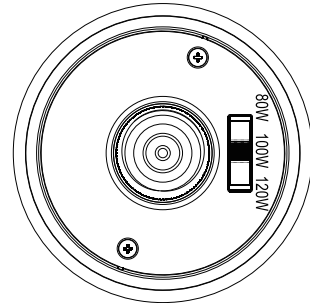
Wattage Adj. 80W-120W

Figure(8)

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Installation

WARNING:

WARNING — Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaries electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

WARNING — Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.

WARNING — To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BYAUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BYA QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS. SUITABLE FOR DAMP LOCATIONS.

ADDED WEIGHT OF THE DEVICE MAY CAUSE INSTABILITY OF A FREE STANDING PORTABLE LUMINAIRE. USE ONLY WITH A PORTABLE TABLE LAMP THAT IS PROVIDED WITH A SHADE. USE IN PORTABLE TABLE LAMPS IN WHICH THE DISTANCE FROM THE BOTTOM OF THE BASE TO THE TOP OF THE LAMPHOLDER DOES NOT EXCEED THREE (3) TIMES THE MINIMUM BASE DIAMETER.

THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS" or "NOT FOR EMERGENCY LIGHTING. MIN. LAMP COMPARTMENT DIMENSIONS (L x W x H)

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Packaging

For SKU number 156814

	Size (Inches)	Qty	Net Weight (LBS)	Gross Weight (LBS)
Inner Box	3.54 x 3.54 x 9.64"	1PC	1.23	1.56
Outer Box	14.96 x 11.42 x 10.43"	12PC	14.99	20.94

For SKU number 156815

	Size (Inches)	Qty	Net Weight (LBS)	Gross Weight (LBS)
Inner Box	3.54 x 3.54 x 11.61"	1PC	1.54	1.98
Outer Box	14.96 x 11.42 x 12.40"	12PC	17.42	24.91

For SKU number 156768

	Size (Inches)	Qty	Net Weight (LBS)	Gross Weight (LBS)
Inner Box	5.31 x 5.31 x 12.40"	1PC	3.41	3.63
Outer Box	16.53 x 11.22 x 13.18"	6PC	20.85	24.14

For SKU number 156816

	Size (Inches)	Qty	Net Weight (LBS)	Gross Weight (LBS)
Inner Box	5.31 x 5.31 x 12.40"	1PC	3.41	3.63
Outer Box	16.53 x 11.22 x 13.18"	6PC	20.50	24.03

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Application

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Application

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Safety Precautions

To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warnings and instructions included with and on the fixture box and all fixture labels.

Before installing,servicing, or performing routine maintenance upon this equipment, follow these general precautions.

Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.

For the installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code. To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

WARNING: RISK OF FIRE OR ELECTRICAL SHOCK
Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply. Turn off the power when you perform any maintenance. Verify that supply voltage is correct by comparing it with the luminaire label information. Make all electrical and grounded connections in accordance with the National Electrical Code and any applicable local code requirements. All wiring connections should be capped with UL approved wire connectors.

CAUTION: RISK OF INJURY
Avoid direct eye exposure to the light source while it is on.
Account for small parts and destroy packing material, as these may be hazardous to children.

Warranty

5 Years Warranty.

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Due to continuous product improvement, information in this document is subject to change.

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