

LED CORNCOB BULB



Lumens Depot Foam's LED Corncob Bulbs are among the most advanced and energy-efficient lighting solutions of 2024. Designed for use in fully enclosed fixtures, these wattage-adjustable bulbs deliver high lumen output while significantly reducing energy consumption compared to traditional metal halide and high-pressure sodium lighting. As a convenient retrofit solution, they help reduce labor costs by eliminating the need to replace entire fixtures—simply open the existing fixture and replace the old bulb for a quick, easy, and cost-effective upgrade. Ideal for post-top lights, shoebox fixtures, and other high-intensity applications, these bulbs are built for reliability with a durable aluminum and polycarbonate housing and an IP64 dust-proof rating for long-lasting performance.

Product Features

- Up to 142 lm/W
- Adjustable Wattage
- Adjustable CCT
- 0-10V Dimmable
- High-reliability internal driver
- White housing
- Input Voltage 100-277VAC
- UL & DLC listed
- 5-year warranty

LED CORNCOB BULB

ADJ. WATT	MAX LUMENS	ADJ. CCT	INPUT VOLTAGE	CRI	LIGHT SPREAD	CONSTRUCTION	BASE	DIMMING	IP RATING	CERTIFICATIONS
18W/27W/36W	5112	3K/4K/5K	100-277V	>80	193°	Aluminum+PC Lens	E26	0-10V	IP64	UL & DLC
36W/54W/63W	8946	3K/4K/5K	100-277V	>80	189°	Aluminum+PC Lens	EX39	0-10V	IP64	UL & DLC
80W/100W/120W	17040	3K/4K/5K	100-277V	>80	150°	Aluminum+PC Lens	EX39	0-10V	IP64	UL & DLC
80W/150W/200W	28400	3K/4K/5K	100-277V	>80	182.5°	Aluminum+PC Lens	EX39	0-10V	IP64	UL & DLC



Optional E39 to E26



151060

LED CORNCOB BULB

Specifications

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

LED CORNCOB BULB

Specifications

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

LED CORNCOB BULB

Specifications

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

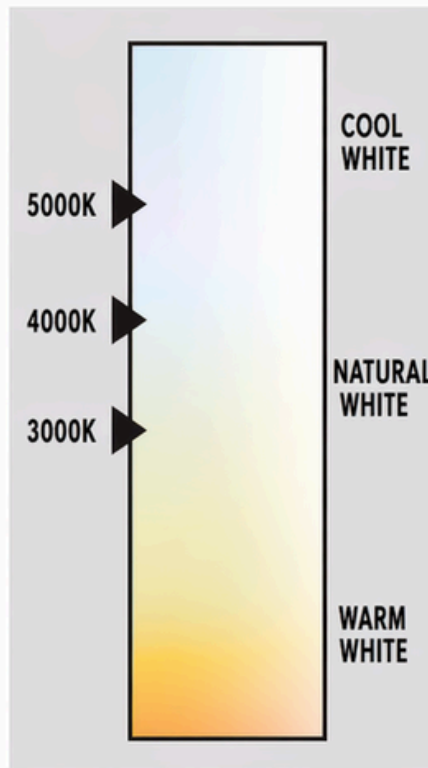
LED CORNCOB BULB

Specifications

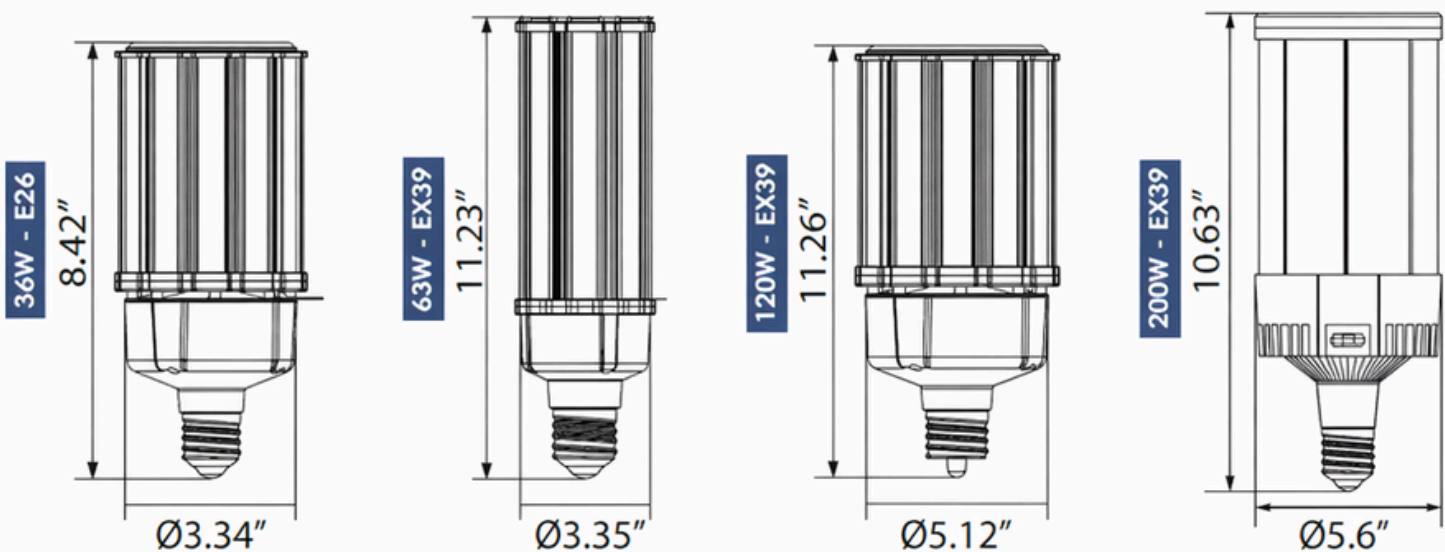
Parameter	Description	Value
General Performance	Adjustable Watt	80W / 150W / 200W
	Color Temperature	3000K / 4000K / 5000K
	Max Lumens	28400
	Lumen Efficacy	Up to 142 LM/W
	CRI (Ra)	>80
	Diffuser Type	Clear
	Light Spread	182.5 Degree
Electrical	Input Voltage	100-277V
	Frequency	50/60Hz
	Dimming	0-10V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

LED CORNCOB BULB

Correlated Color Temperature (CCT)



Dimensions



LED CORNCOB BULB

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

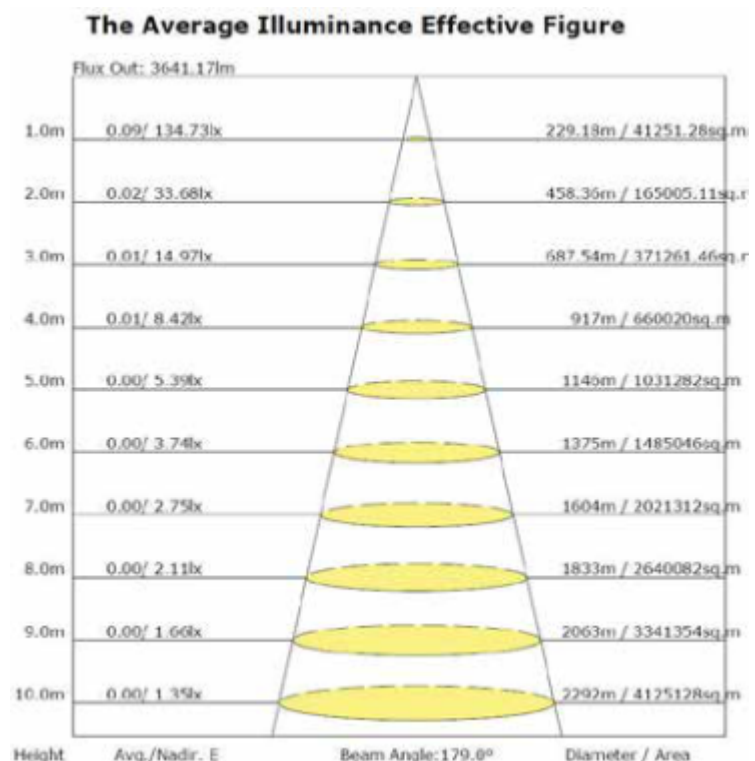
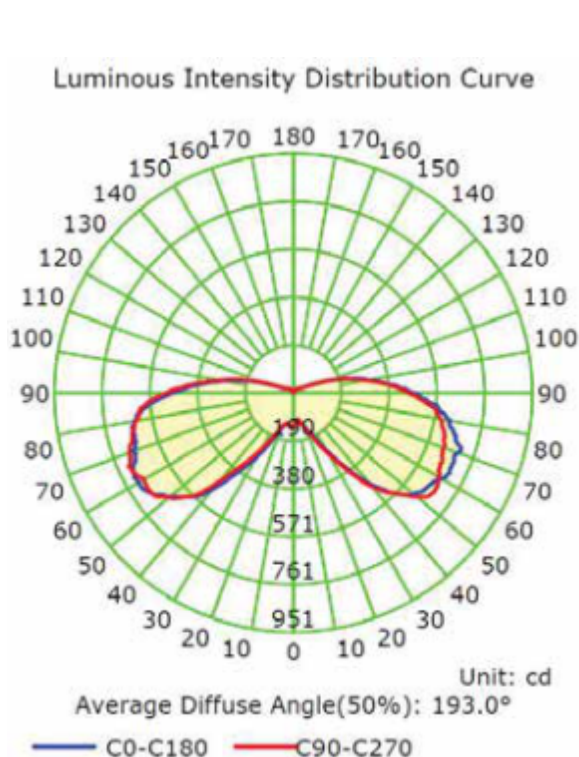
Longitudinal Classification: Short

Measurement Flux: 4203.3 lm

Downward Ratio: 79%

Luminaire Efficacy Rating (LER): 124.70

Max. Intensity: 761.39 cd



LED CORNCOB BULB

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

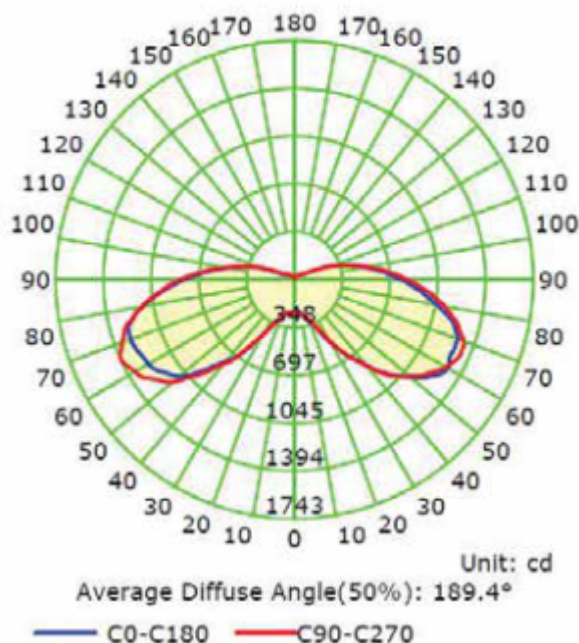
Measurement Flux: 7603.6 lm

Downward Ratio: 80%

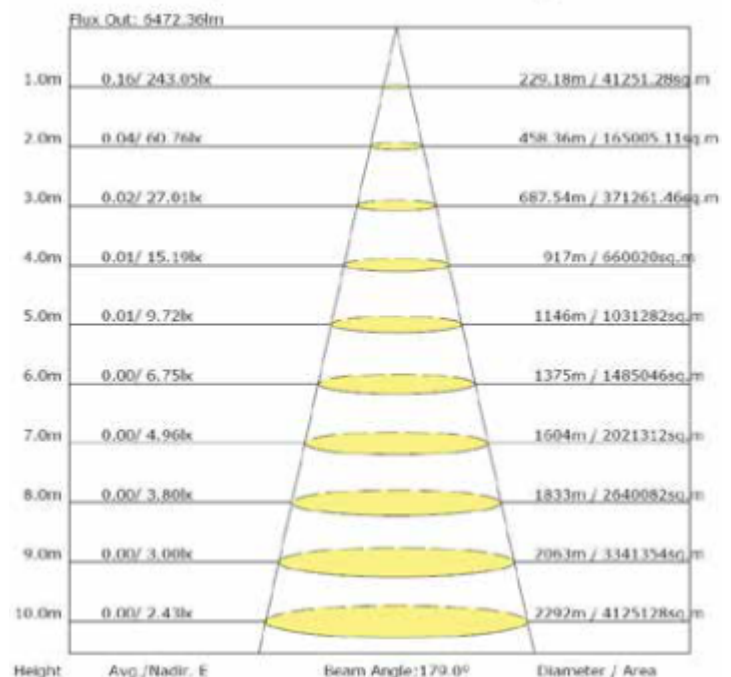
Luminaire Efficacy Rating (LER): 120.59

Max. Intensity: 1394.54 cd

Luminous Intensity Distribution Curve



The Average Illuminance Effective Figure



LED CORNCOB BULB

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

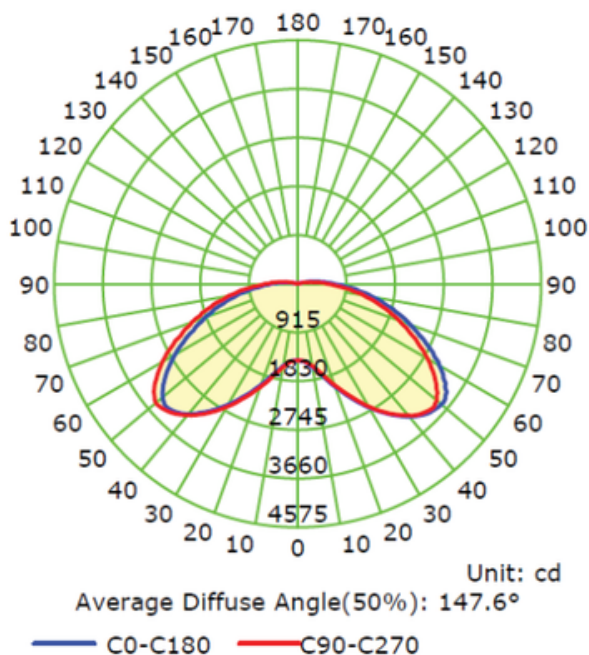
Luminaire Description:
Lamp Description:
Luminous of Lamps:
Luminous Width (mm):
Voltage: 120.0 V
Power: 121.21 W

Photometric Results

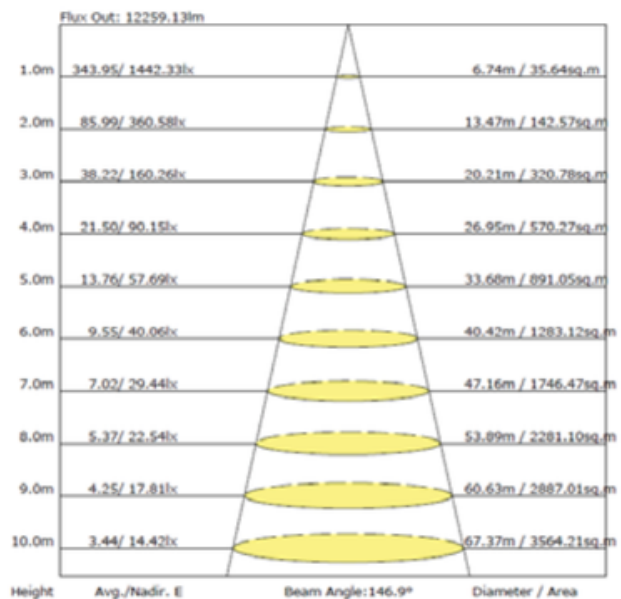
CIE Class: Direct
Measurement Flux: 14835.9 lm
Downward Ratio: 97%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315) : 191.3, 191.4, 191.9, 190.7
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315) : 146.9, 148.3, 148.1, 145.7
Luminaire Efficacy Rating (LER) : 122.45
Max. Intensity : 3660.22 cd
S/MH(C0/C180)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



The Average Illuminance Effective Figure



LED CORNCOB BULB

Light Distribution Testing Parameters

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.133 A
Power Factor: 0.904

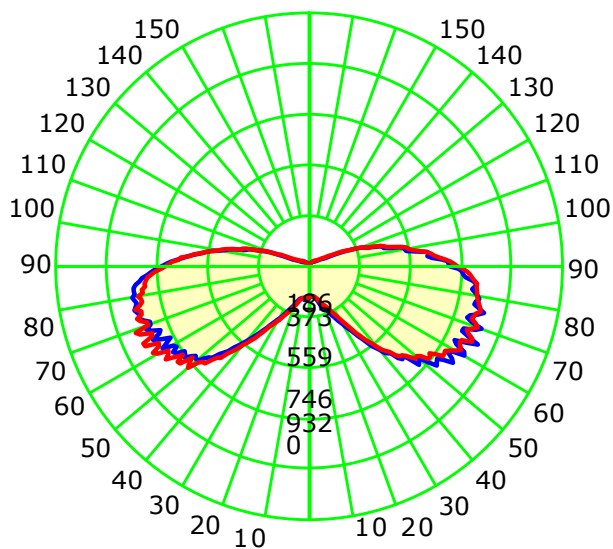
Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 277.0 V
Power: 33.39 W

Photometric Results

IES Classification: Type I
Total Rated Lamp Lumens: 4112.2 lm
Efficiency: 100%
Upward Ratio: 25%
C0r0 Intensity: 112.45 cd
Pos of Max. Intensity: H157.5 V65

Longitudinal Classification: Short
Measurement Flux: 4112.2 lm
Downward Ratio: 75%
Luminaire Efficacy Rating (LER): 123.21
Max. Intensity: 746.35 cd

Luminous Intensity Distribution Curve
160170 180 170160

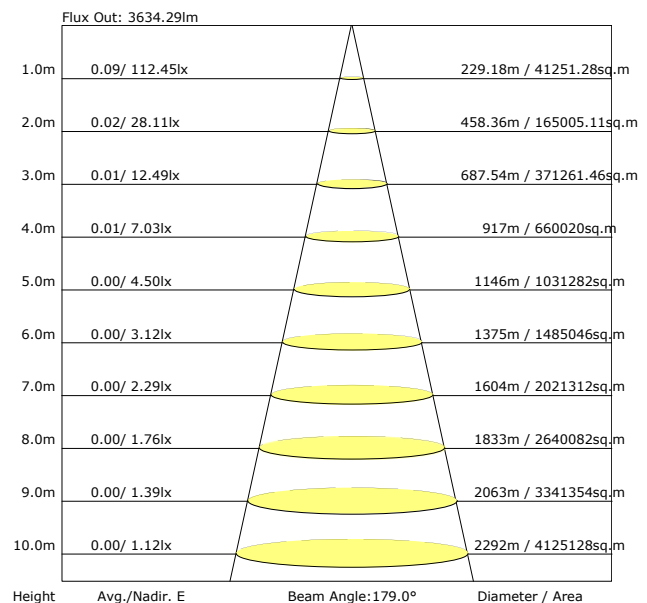


Unit: cd

Average Diffuse Angle(50%): 201.9°

— C0-C180 — C90-C270

The Average Illuminance Effective Figure



LED CORNCOB BULB

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

LED CORNCOB BULB

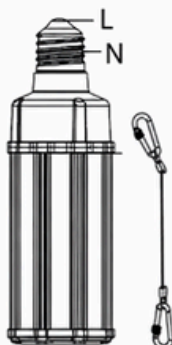
Installation Instructions

Warning: Please make sure the power is off before installation.

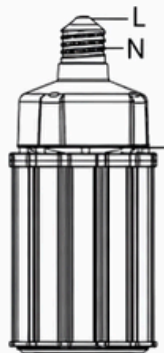
1. Turn off the power switch.
2. Screw off the CFL or MHL or HPS and so on, see Figure (5)(6).
3. Take out led corn light and screw on, see Figure (1)(2)(3)(4). Figure (1)(2) (3) (4):AC internal driver,
(Note: Pls make sure to take off the ballast before installing led corn light, otherwise the ballast 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!)



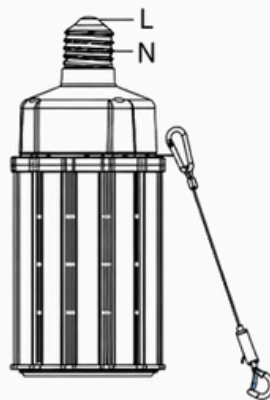
Figure(1)



Figure(2)

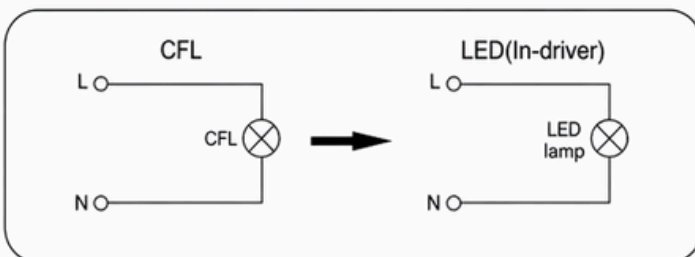
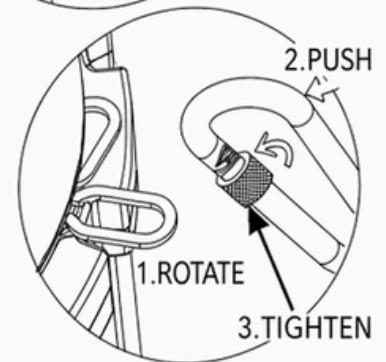
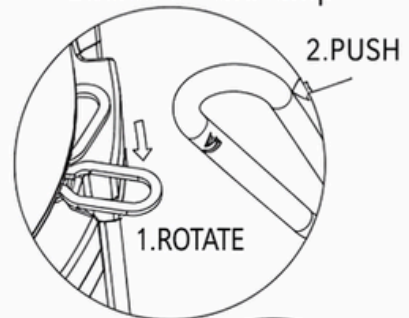


Figure(3)

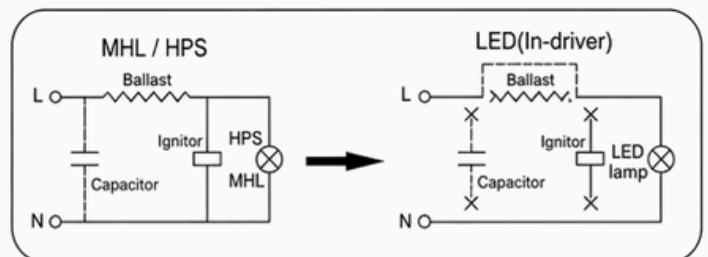


Figure(4)

Buckle on the lamp



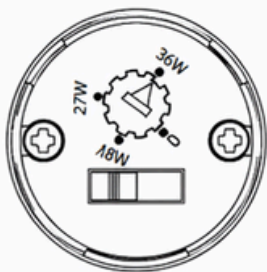
Figure(6)



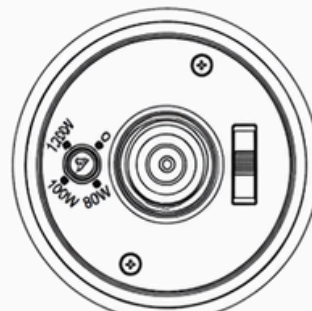
Figure(7)

LED CORNCOB BULB

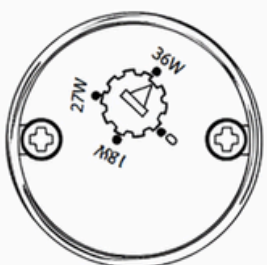
Wattage Adjustable



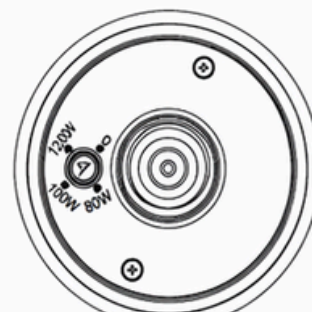
Wattage Adjustable
18W / 27W / 36W



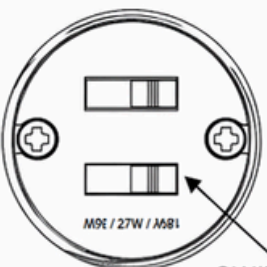
Wattage Adj. 80W / 100W / 120W



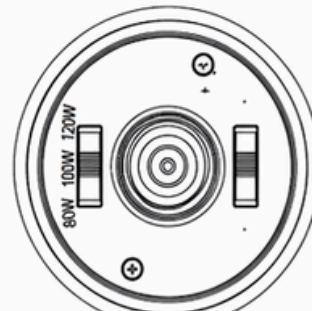
CCT 5000K
Wattage Adj.
27W-63W



Wattage Adj.
80-120W



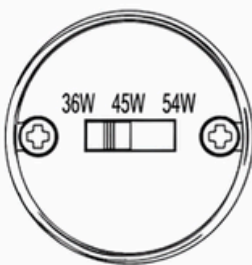
Wattage Adj.
18W / 27W / 36W



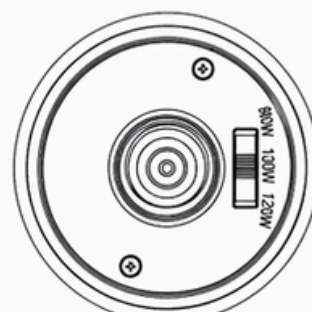
Wattage Adj.
80W-120W



Wattage Adj.
80W-120W



Wattage Adj. 36W-54W



Wattage Adj. 80W-120W

Figure(8)

LED CORNCOB BULB

Installation

WARNING:

WARNING — Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires 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 BY AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A 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)

LED CORNCOB BULB

Packaging

Box Dimension	Qty	Net Weight	Gross Weight
3.54" x 3.54" x 9.64"	1P C/Box	1.23LBS	1.56LBS
14.96" x 11.42" x 10.43"	12 PC/Box	14.99LBS	20.94LBS

Box Dimension	Qty	Net Weight	Gross Weight
3.54" x 3.54" x 11.61"	1 PC/Box	1.54LBS	1.98LBS
14.96" x 11.42" x 12.40"	12 PCS/Box	17.42LBS	24.91LBS

Box Dimension	Qty	Net Weight	Gross Weight
5.31" x 5.31" x 12.40"	1 PC/Box	3.41LBS	3.63LBS
16.53" x 11.22" x 13.18"	6 PCS/Box	20.85LBS	24.14LBS

Box Dimension	Qty	Net Weight	Gross Weight
5.31" x 5.31" x 12.40"	1 PC/Box	3.41LBS	3.63LBS
18.5" x 12.6" x 13"	6 PCS/Box	17.2LBS	24.25LBS

LED CORNCOB BULB

Application



LED CORNCOB BULB

Application



LED CORNCOB BULB

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.