LED Flat Head Corncob Bulb
HD 1.2 Series

HD 1.2 Series

Beyond LED Technology's HD 1.2 Series Flat Head Corncob high wattage LED retrofits are designed to reduce the power consumed, in fixtures traditionally used with metal halide or high-pressure sodium lamps, while still producing a high Lumen output. This 2019 version is has a noiseless fan, and it's the smallest, and shortest of its kind to fit such a wide range of fixtures. Suitable for use in enclosed fixtures, these high output LEDs are an excellent choice for post top lights, shoebox fixtures, and other HID fixtures. The rotatable base allows you to aim the light where you need it. With 180 degree beam angle it saves 20-30% energy compared to a 360 bulb.

- Up to 130 lumens per watt
- Built-in Noise less High quality fan for best heat dissipation
- 4KV built-in surge protector
- IP54 dust proof rating
- High-reliability internal driver
- Universal 100-277Vac
- Can safely be used in enclosed fixtures

LED Flat Head Corncob Bulb
HD 1.2 Series

HD 1.2 Series

SKU #	Model #	Base	Watts	Lumens	CCT	Input Voltage	Certifications
110684	BLTCLH54WE3957KF	E39/E40	54W	6900Lm	5700K	100-277Vac 50/60Hz	UL & DLC
110668	BLTCLH75WE3957K	E39/E40	75W	8900Lm	5700K	100-277Vac 50/60Hz	UL & DLC
110692	BLTCLH95WE3957K	E39/E40	95W	11200Lm	5700K	100-277Vac 50/60Hz	UL & DLC
110700	BLTCLH115WE3957K	E39/E40	115W	13100Lm	5700K	100-277Vac 50/60Hz	UL & DLC

LED Retrofit Bulb

Rotatable base

ROTATABLE BASE

Covered Outdoor Use

LUXEON 3030 2D Line
LUMILEDS

Dimensions

5.43"

3.42"
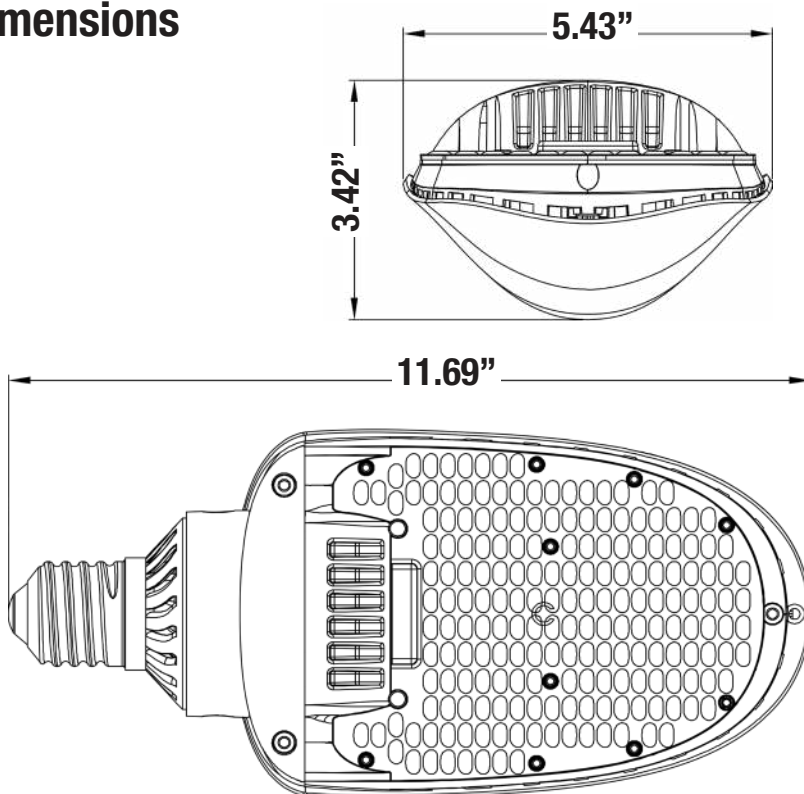
11.69"

CORRELATED COLOR TEMPERATURE (CCT)

5700K ▶

COOL WHITE

NEUTRAL WHITE

WARM WHITE

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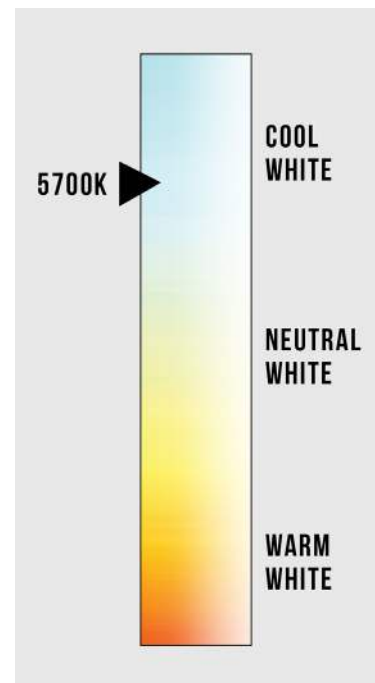
LED Flat Head Corncob Bulb
HD 1.2 Series

54W - Specifications

PRODUCT SPECIFICATIONS		
Lamp Base	E39	
Dimension	11.6929" X 5.43307" X 3.4252"	
Technical Characteristic		
Color temperature	5700K	
CRI	> 70	
Lumen-In Luminaires	6900Lm	
Lumen Efficacy-In Luminaires	Up to 130 lumens per watt	
Input Power	54W	
Viewing Angle	90*150degree(TypeⅢ)	
Input Voltage	AC100-277V 50/60Hz	
PFC	>0.9	
Equivalent	120W CFL，175W MHL/HPS/HID	
Waterproof Rating	IP51	
MATERIALS		
LED Brand	PHILIPS LUMILEDS	
LED Type	LUXEON 3030 2D（1.5W）	
LED QTY	112 PCS	
Housing	Magnesium Alloy+AL+PC	
Housing color	Black+Silver	
OTHERS		
Operating Temperature	-4°F to 113°F	
Operating Humidity	20%-70% RH	
Storage Temperature	-22°F to 176°F	
Storage Humidity	10%-75% RH	
Application	Replacement Lamps for Outdoor Pole/Arm-mounted Area and Roadway Luminaires	
Safety Certification	UL、CUL、DLC	
Warranty Time	5 Years	

Packaging

SKU #	Model #	Pcs/Box	Dimensions	Weight	Pallet Quantity	Pallet Weight	Pallet Dimensions
110684	BLTCLH54WE3957KF	1	14" X 7" X 5"	3 Lb			
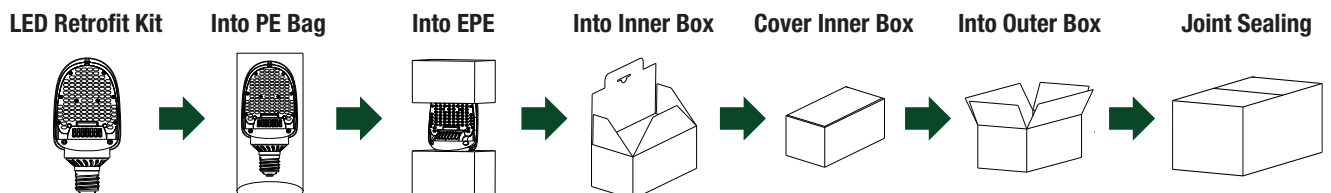
LED Retrofit Kit ➡ Into PE Bag ➡ Into EPE ➡ Into Inner Box ➡ Cover Inner Box ➡ Into Outer Box ➡ Joint Sealing

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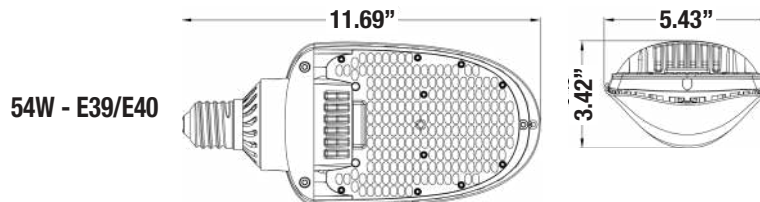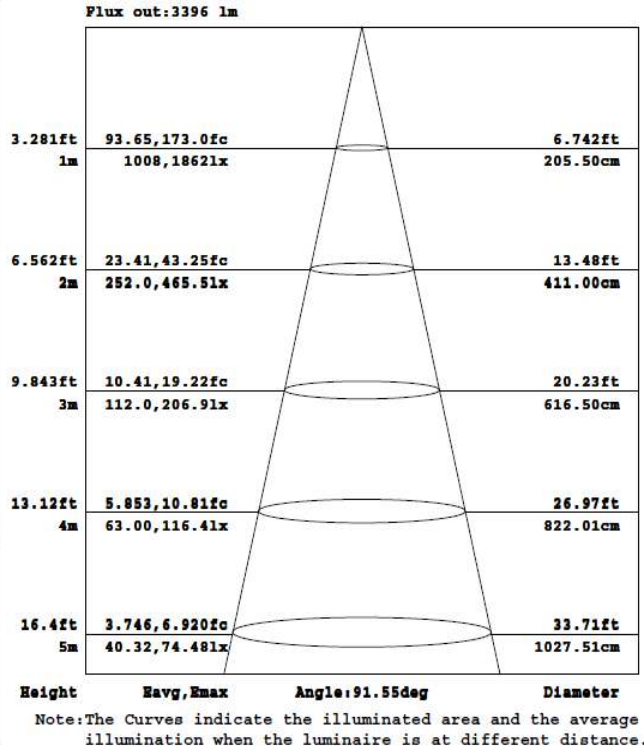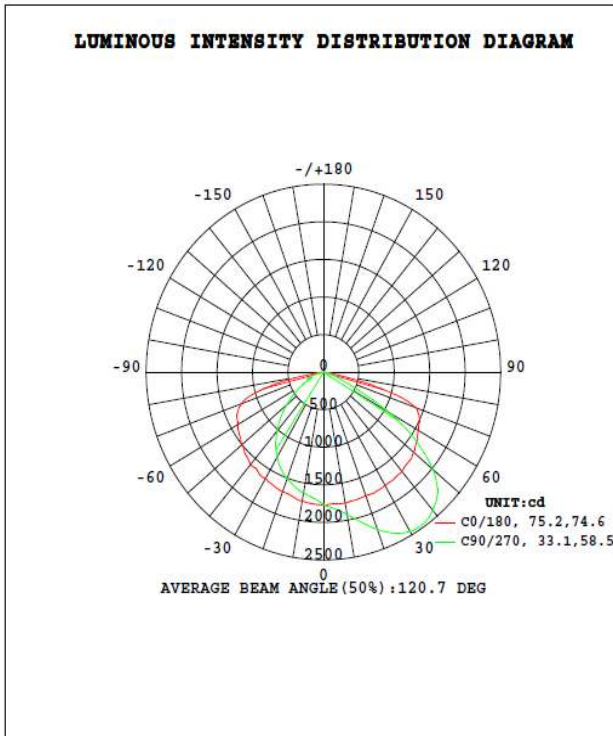
LED Flat Head Corncob Bulb
HD 1.2 Series

Distribution Diagram

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

DATA OF LAMP			PHOTOMETRIC DATA		Eff: 121.44 lm/W
MODEL		Imax(cd)	2480	S/MH(C0/180)	1.41
NOMINAL POWER(W)	54	LOR(%)	100.0	S/MH(C90/270)	1.12
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6664.7	η UP,DN(C0-180)	0.0,64.8
NOMINAL FLUX(lm)	6664.69	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,35.0
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.0	η down(%)	99.9	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
C0/180, 75.2,74.6
C90/270, 33.1,58.5
AVERAGE BEAM ANGLE(50%):120.7 DEG

Flux out:3396 lm

Height	Eavg,Emax		Diameter
3.281ft	93.65,173.0fc		6.742ft
1m	1008,18621x		205.50cm
6.562ft	23.41,43.25fc		13.48ft
2m	252.0,465.51x		411.00cm
9.843ft	10.41,19.22fc		20.23ft
3m	112.0,206.91x		616.50cm
13.12ft	5.853,10.81fc		26.97ft
4m	63.00,116.41x		822.01cm
16.4ft	3.746,6.920fc		33.71ft
5m	40.32,74.481x		1027.51cm

Angle:91.55deg

Note:The Curves indicate the illuminated area and the average
illumination when the luminaire is at different distance.

54W - E39/E40

11.69"   5.43"   3.42"

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LED Flat Head Corncob Bulb
HD 1.2 Series

75W - Specifications

PRODUCT SPECIFICATIONS		
Lamp Base	E39	
Dimension	11.6929" X 5.43307" X 3.4252"	
Technical Characteristic		
Color temperature	5700K	
CRI	> 70	
Lumen-In Luminaires	8900Lm	
Lumen Efficacy-In Luminaires	Up to 130 lumens per watt	
Input Power	75W	
Viewing Angle	90*150degree(TypeⅢ)	
Input Voltage	AC100-277V 50/60Hz	
PFC	>0.9	
Equivalent	150W CFL，250W MHL/HPS/HID	
Waterproof Rating	IP51	
MATERIALS		
LED Brand	PHILIPS LUMILEDS	
LED Type	LUXEON 3030 2D（1.5W）	
LED QTY	140 PCS	
Housing	Magnesium Alloy+AL+PC	
Housing color	Black+Silver	
OTHERS		
Operating Temperature	-4°F to 113°F	
Operating Humidity	20%-70% RH	
Storage Temperature	-22°F to 176°F	
Storage Humidity	10%-75% RH	
Application	Replacement Lamps for Outdoor Pole/Arm-mounted Area and Roadway Luminaires	
Safety Certification	UL、CUL、DLC	
Warranty Time	5 Years	

Packaging

SKU #	Model #	Pcs/Box	Dimensions	Weight	Pallet Quantity	Pallet Weight	Pallet Dimensions
110668	BLTCLH75WE3957K	1	14" X 7" X 5"	3 Lb			

LED Retrofit Kit	Into PE Bag	Into EPE	Into Inner Box	Cover Inner Box	Into Outer Box	Joint Sealing

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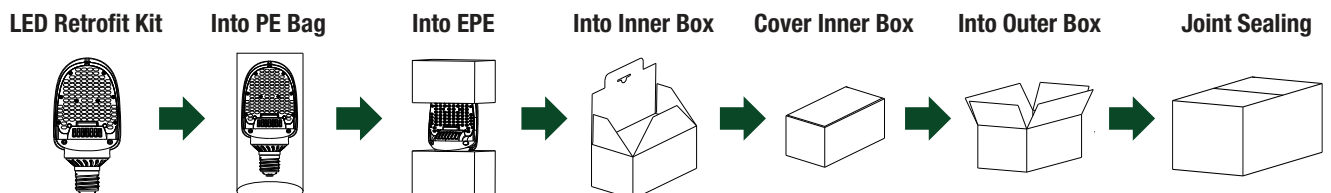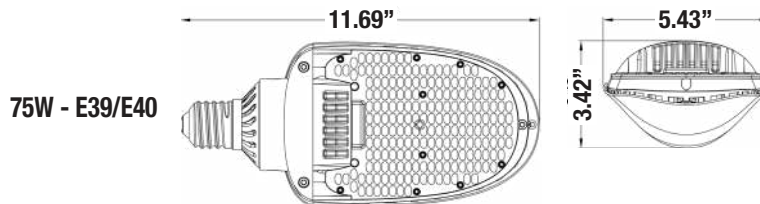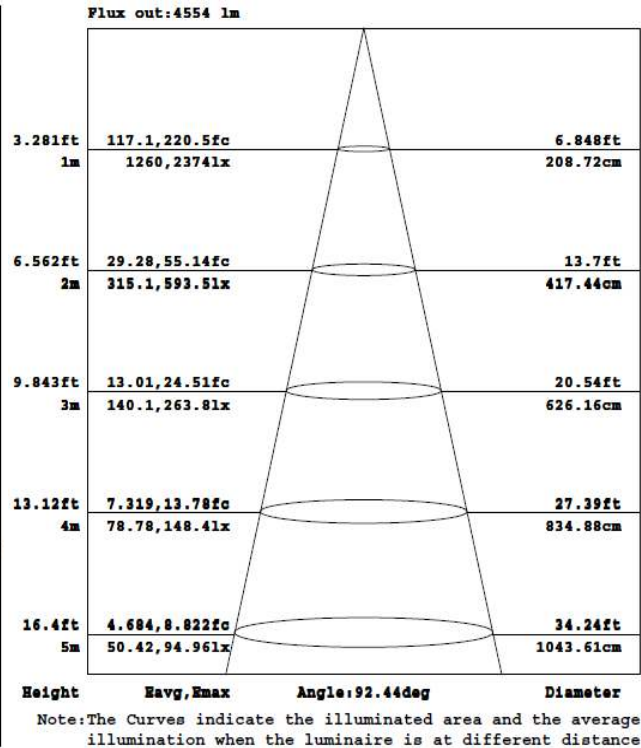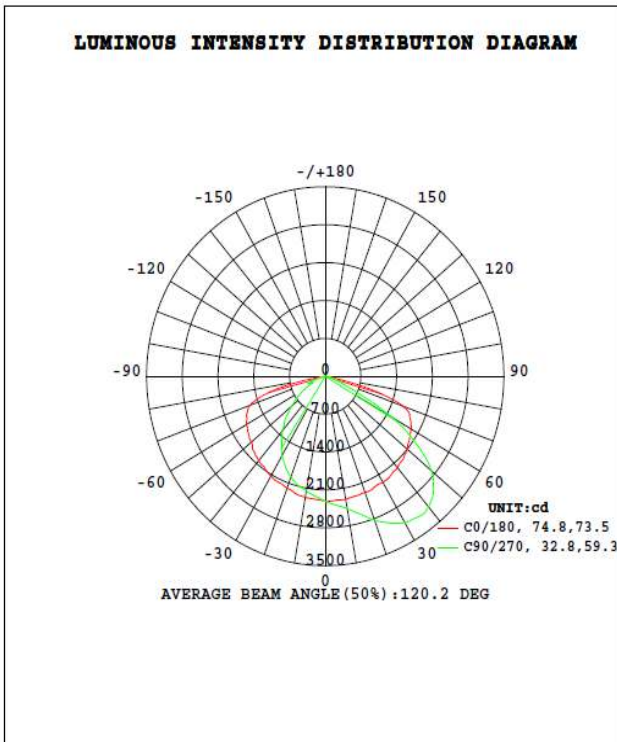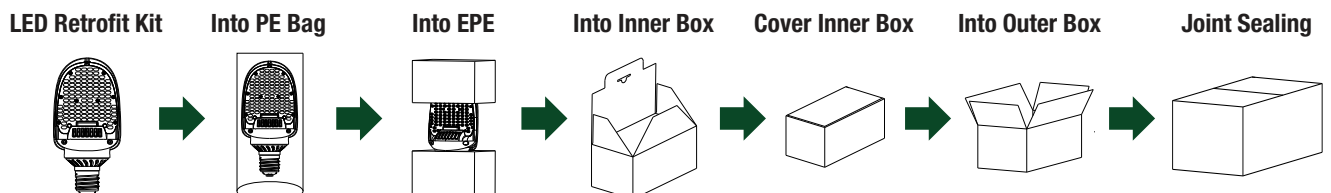
LED Flat Head Corncob Bulb
HD 1.2 Series

Distribution Diagram

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

DATA OF LAMP			PHOTOMETRIC DATA		Eff: 116.13 lm/W
MODEL		Imax(cd)	3203	S/MH(C0/180)	1.38
NOMINAL POWER(W)	75	LOR(%)	100.0	S/MH(C90/270)	1.11
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	8615.4	η UP,DN(C0-180)	0.1,64.7
NOMINAL FLUX(lm)	8615.43	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,35.1
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.0	η down(%)	99.8	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
C0/180, 74.8,73.5
C90/270, 32.8,59.3

AVERAGE BEAM ANGLE(50%):120.2 DEG

Flux out:4554 lm

Height	Eavg,Emax		Diameter
3.281ft / 1m	117.1,220.5fc / 1260,23741x		6.848ft / 208.72cm
6.562ft / 2m	29.28,55.14fc / 315.1,593.51x		13.7ft / 417.44cm
9.843ft / 3m	13.01,24.51fc / 140.1,263.81x		20.54ft / 626.16cm
13.12ft / 4m	7.319,13.78fc / 78.78,148.41x		27.39ft / 834.88cm
16.4ft / 5m	4.684,8.822fc / 50.42,94.961x		34.24ft / 1043.61cm

Angle:92.44deg

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

11.69"

5.43"

3.42"

75W - E39/E40

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LED Flat Head Corncob Bulb
HD 1.2 Series

95W - Specifications

PRODUCT SPECIFICATIONS		
Lamp Base	E39	
Dimension	11.6929" X 5.43307" X 3.4252"	
Technical Characteristic		
Color temperature	5700K	
CRI	> 70	
Lumen-In Luminaires	11200Lm	
Lumen Efficacy-In Luminaires	Up to 130 lumens per watt	
Input Power	95W	
Viewing Angle	90*150degree(TypeⅢ)	
Input Voltage	AC100-277V 50/60Hz	
PFC	>0.9	
Equivalent	200W CFL，250W MHL/HPS/HID	
Waterproof Rating	IP51	
MATERIALS		
LED Brand	PHILIPS LUMILEDS	
LED Type	LUXEON 3030 2D（1.5W）	
LED QTY	168 PCS	
Housing	Magnesium Alloy+AL+PC	
Housing color	Black+Silver	
OTHERS		
Operating Temperature	-4°F to 113°F	
Operating Humidity	20%-70% RH	
Storage Temperature	-22°F to 176°F	
Storage Humidity	10%-75% RH	
Application	Replacement Lamps for Outdoor Pole/Arm-mounted Area and Roadway Luminaires	
Safety Certification	UL、CUL、DLC	
Warranty Time	5 Years	

Packaging

SKU #	Model #	Pcs/Box	Dimensions	Weight	Pallet Quantity	Pallet Weight	Pallet Dimensions
110692	BLTCLH95WE3957K	1	14" X 7" X 5"	3 Lb			

LED Retrofit Kit	Into PE Bag	Into EPE	Into Inner Box	Cover Inner Box	Into Outer Box	Joint Sealing

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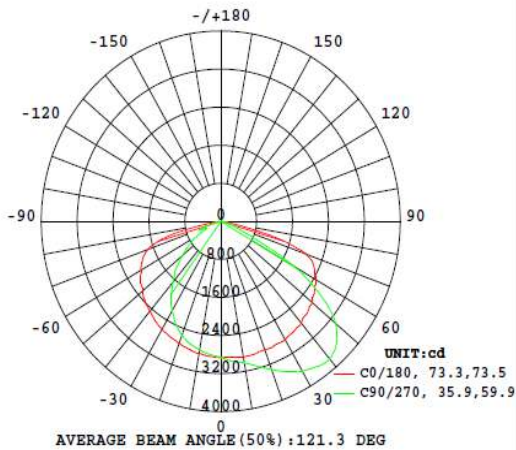
LED Flat Head Corncob Bulb
HD 1.2 Series

Distribution Diagram

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

DATA OF LAMP			PHOTOMETRIC DATA		Eff: 114.03 lm/W	
MODEL		Imax(cd)	3845	S/MH(C0/180)	1.38
NOMINAL POWER(W)	95	LOR(%)	100.0	S/MH(C90/270)	1.15
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	10622	η UP,DN(C0-180)	0.1,63.8
NOMINAL FLUX(lm)	10622.3	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,36.0
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120.0	η down(%)	99.8	CIBSE SHR MAX	1.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM
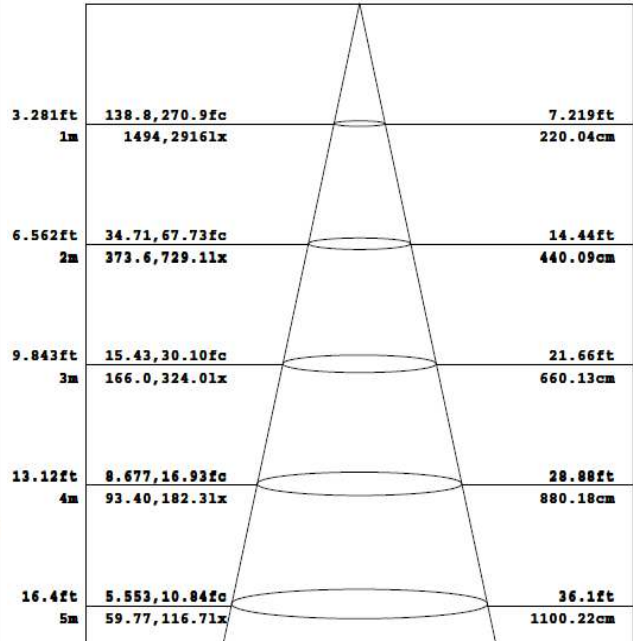
UNIT:cd
C0/180, 73.3,73.5
C90/270, 35.9,59.9

AVERAGE BEAM ANGLE(50%):121.3 DEG

Flux out:5791 lm

Height	Havg,Emax		Angle:95.46deg	Diameter
3.281ft 1m	138.8,270.9fc 1494,29161x			7.219ft 220.04cm
6.562ft 2m	34.71,67.73fc 373.6,729.11x			14.44ft 440.09cm
9.843ft 3m	15.43,30.10fc 166.0,324.01x			21.66ft 660.13cm
13.12ft 4m	8.677,16.93fc 93.40,182.31x			28.88ft 880.18cm
16.4ft 5m	5.553,10.84fc 59.77,116.71x			36.1ft 1100.22cm

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.
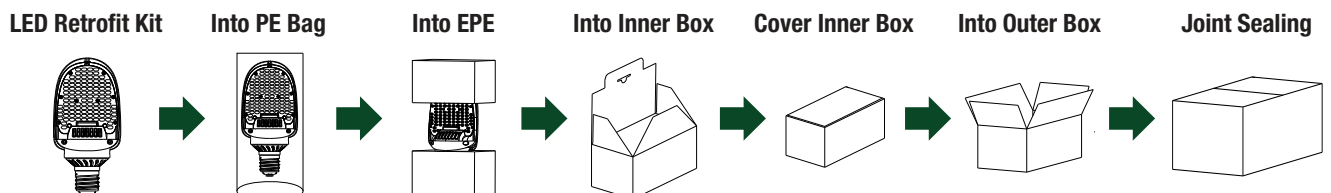
11.69"   5.43"   3.42"

95W - E39/E40

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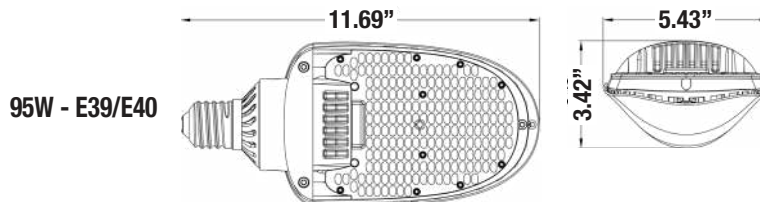
LED Flat Head Corncob Bulb
HD 1.2 Series

115W - Specifications

PRODUCT SPECIFICATIONS		
Lamp Base	E39	
Dimension	11.6929" X 5.43307" X 3.4252"	
Technical Characteristic		
Color temperature	5700K	
CRI	> 70	
Lumen-In Luminaires	13100Lm	
Lumen Efficacy-In Luminaires	Up to 130 lumens per watt	
Input Power	115W	
Viewing Angle	90*150degree(TypeⅢ)	
Input Voltage	AC100-277V 50/60Hz	
PFC	>0.9	
Equivalent	200W CFL，400W MHL/HPS/HID	
Waterproof Rating	IP51	
MATERIALS		
LED Brand	PHILIPS LUMILEDS	
LED Type	LUXEON 3030 2D（1.5W）	
LED QTY	196 PCS	
Housing	Magnesium Alloy+AL+PC	
Housing color	Black+Silver	
OTHERS		
Operating Temperature	-4°F to 113°F	
Operating Humidity	20%-70% RH	
Storage Temperature	-22°F to 176°F	
Storage Humidity	10%-75% RH	
Application	Replacement Lamps for Outdoor Pole/Arm-mounted Area and Roadway Luminaires	
Safety Certification	UL、CUL、DLC	
Warranty Time	5 Years	

Packaging

SKU #	Model #	Pcs/Box	Dimensions	Weight	Pallet Quantity	Pallet Weight	Pallet Dimensions
110700	BLTCLH115WE3957K	1	14" X 7" X 5"	3 Lb			

LED Retrofit Kit → **Into PE Bag** → **Into EPE** → **Into Inner Box** → **Cover Inner Box** → **Into Outer Box** → **Joint Sealing**

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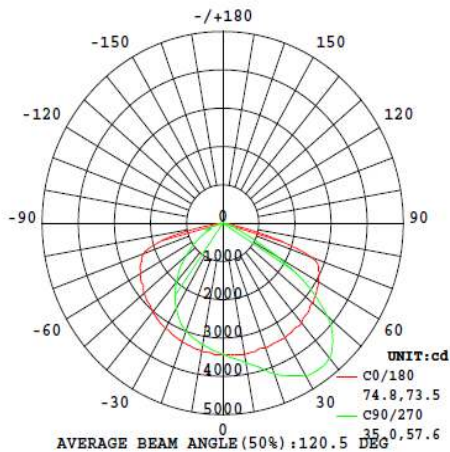
LED Flat Head Corncob Bulb
HD 1.2 Series

Distribution Diagram

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

| DATA OF LAMP			PHOTOMETRIC DATA		Eff: 113.44 lm/W	
MODEL			Imax(cd)	4765	S/MH(C0/180)	1.40
NOMINAL POWER(W)	115		LOR(%)	100.0	S/MH(C90/270)	1.14
RATED VOLTAGE(V)	120		TOTAL FLUX(lm)	12819	η UP,DN(C0-180)	0.1,63.9
NOMINAL FLUX(lm)	12819.3		CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,35.9
LAMPS INSIDE	1		η up(%)	0.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.0		η down(%)	99.8	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
C0/180
74.8,73.5
C90/270
35.0,57.6

AVERAGE BEAM ANGLE(50%):120.5 DEG

Flux out:6576 lm

Height	Eavg,Emax		Angle:91.38deg	Diameter
1m	1952,3545lx			204.89cm
2m	488.0,886.21x			409.78cm
3m	216.9,393.91x			614.67cm
4m	122.0,221.61x			819.56cm
5m	78.08,141.81x			1024.46cm
6m	54.22,98.471x			1229.35cm
7m	39.84,72.351x			1434.24cm
8m	30.50,55.391x			1639.13cm
9m	24.10,43.771x			1844.02cm
10m	19.52,35.451x			2048.91cm

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

11.69"   5.43"   3.42"

115W - E39/E40

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BEYOND LED TECHNOLOGY

LED CORNCOB BULBS

LED Flat Head Corncob Bulb
HD 1.2 Series

Notice For User

- Please turn off power before installing or changing assembly parts.
- The input voltage and lamps should be matched, after connecting the power line. Please make sure the wiring section is insulated.
- Make sure to remove or bypass the ballast in the fixtures before installing the lamps.
- Suitable for damp locations. Do not use with dimmers.
- Suitable for use in enclosed luminaires.
- Non-professionals, must not install and disassemble the lamps.
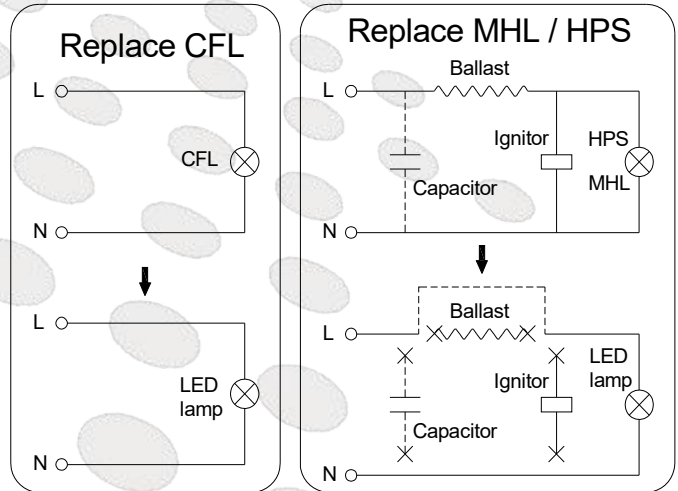
Trouble Shooting

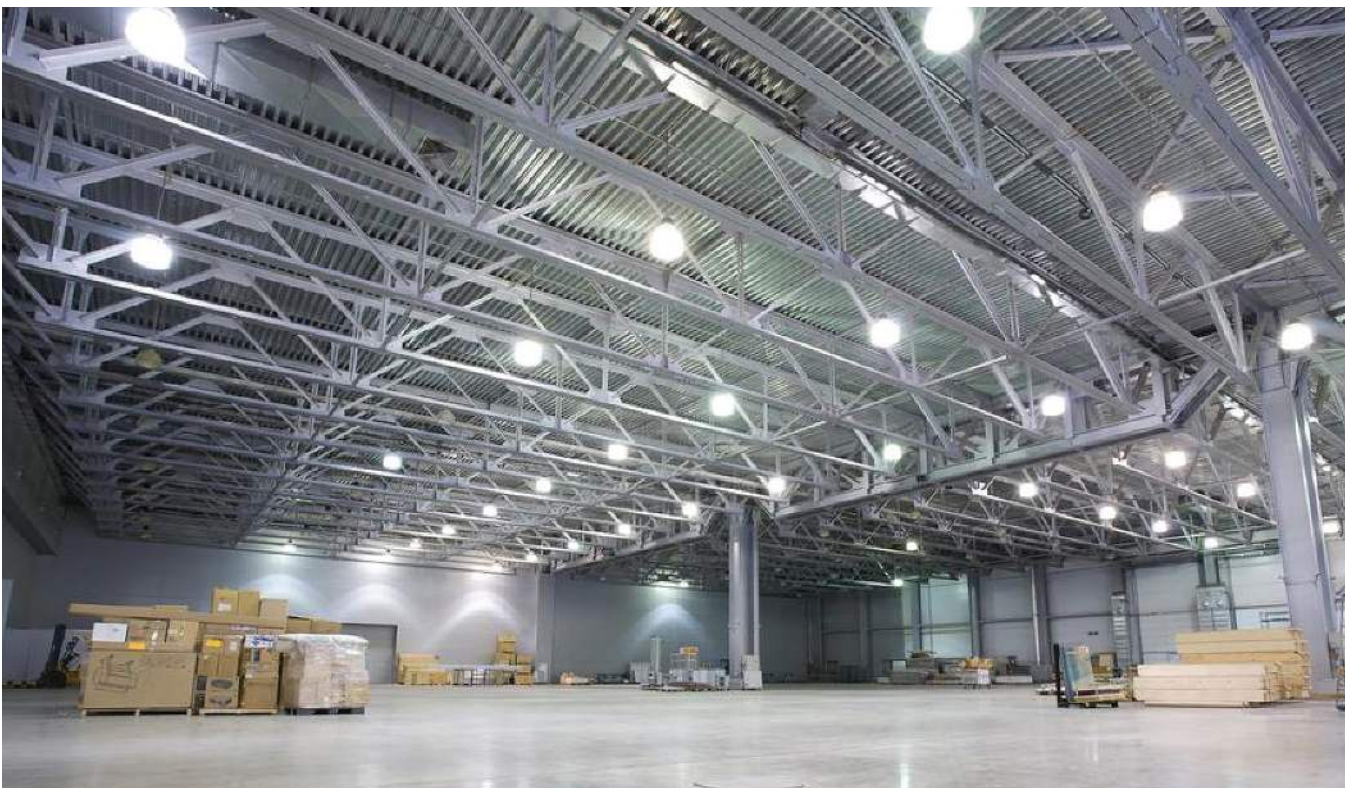**Problem**

- Flickering of the light -
- Not working -

Solutions

Turn off the power and turn on again in 3 minutes. If the same phenomena occurs, then call Support.

Please check all power connectons.

54W   75W   95W   115W

E39/E40 Base

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HD 1.2 Series

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