LED HID Corn Cob Lamps & Sensors

Product Specifications

TCP's energy efficient LED HID Corn Cob lamps and sensors are an excellent choice for replacing traditional metal halide products. Damp location rated and designed for indoor use where low maintenance and high lumen output is required.

Reasons to choose the LED High Bay lamps and sensors from TCP

- Uses less energy than traditional metal halide products
- 50,000 hour life minimizes replacement and maintenance costs
- UL approved for damp locations
- Rated for enclosed fixtures
- Omni-directional/360° beam angle for full light distribution
- Isolated driver for better heat dissipation and eliminates the need for a ballast
- Surge protection - all wattages have 4KV surge protection
- Sensor controls – several lamps can use daylight or motion sensing to control when lamps are on/off

Ideal Applications

- Warehouses
- Street Lights
- Parking Lots
- Roadways
- Landscape Lighting
- Industrial Lighting

Specifications:

Color Temperatures	4000K, 5000K
Wattage Replacements	50W, 75W, 100W, 175W, 200W, 250W, 300W, 320W, 400W, 500W
Input Line Voltage	100-277 VAC
Input Line Frequency	50/60HZ
Lamp Life (Rated)	50,000 hours
Minimum Starting Temp	-40°C
Maximum Operating Temp	60°C
CRI	≥ 80
Surge Protection	4kv

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RoHS COMPLIANT

5 YEAR WARRANTY*
*Based on 12 hours use per day

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Specifications

L120HEX3950xxK | L100HEX3950xxK | L80HEX3950xxK | LL63HEX3950xxK | L54HEX3950xxK | L45HEX3950xxK | L45HE2650xxK | L36HE2650xxK | L27HE2650xxK | L18HE2650xxK | L12HE2650xxK

ITEM #	DESCRIPTION	DLC*	METAL HALIDE EQUIVALENT	VOLTAGE	BASE LAMP LUMENS	LED WATTS	CRI	COLOR TEMP	MOL (inches)	DIA (inches)	MIN ENCLOSURE DIMENSION (INCHES)	BASE	SENSOR COMPATIBLE	MASTER PACK
LED HID Corn Cob Lamp Series														
120W LED HID														
L120HEX395040K	LED 120W MH500 EX39 40K	★	500	120-277VAC	15000	120	>80	4000K	11.1	5.1	9.84" L x 9.84"	EX39	Yes	6
L120HEX395050K	LED 120W MH500 EX39 50K	★	500	120-277VAC	15000	120	>80	5000K	11.1	5.1	9.84" L x 9.84"	EX39	Yes	6
100W LED HID														
L100HEX395040K	LED 100W MH400 EX39 40K	★	400	120-277VAC	12500	100	>80	4000K	10.3	5.1	9.84" L x 9.84"	EX39	Yes	6
L100HEX395050K	LED 100W MH400 EX39 50K	★	400	120-277VAC	12500	100	>80	5000K	10.3	5.1	9.84" L x 9.84"	EX39	Yes	6
80W LED HID														
L80HEX395040K	LED 80W MH320 EX39 40K	★	320	120-277VAC	10000	80	>80	4000K	9.7	5.1	9.84" L x 9.84"	EX39	Yes	6
L80HEX395050K	LED 80W MH320 EX39 50K	★	320	120-277VAC	10000	80	>80	5000K	9.7	5.1	9.84" L x 9.84"	EX39	Yes	6
63W LED HID														
L63HEX395040K	LED 63W MH300 EX39 40K	★	300	120-277VAC	7875	63	>80	4000K	9.7	3.5	7.87" L x 7.87"	EX39	Yes	16
L63HEX395050K	LED 63W MH300 EX39 50K	★	300	120-277VAC	7875	63	>80	5000K	9.7	3.5	7.87" L x 7.87"	EX39	Yes	16
54W LED HID														
L54HEX395040K	LED 54W MH250 EX39 40K	★	250	120-277VAC	6750	54	>80	4000K	9.2	3.4	7.87" L x 7.87"	EX39	Yes	16
L54HEX395050K	LED 54W MH250 EX39 50K	★	250	120-277VAC	6750	54	>80	5000K	9.2	3.4	7.87" L x 7.87"	EX39	Yes	16
45W LED HID														
L45HEX395040K	LED 45W MH200 EX39 40K	★	200	120-277VAC	5625	45	>80	4000K	9.2	3.4	7.87" L x 7.87"	EX39	Yes	16
L45HEX395050K	LED 45W MH200 EX39 50K	★	200	120-277VAC	5625	45	>80	5000K	9.2	3.4	7.87" L x 7.87"	EX39	Yes	16
L45HE265040K	LED 45W MH200 E26 40K		200	120-277VAC	5625	45	>80	4000K	9.1	3.4	7.87" L x 7.87"	E26	No	16
L45HE265050K	LED 45W MH200 E26 50K		200	120-277VAC	5625	45	>80	5000K	9.1	3.4	7.87" L x 7.87"	E26	No	16
36W LED HID														
L36HE265040K	LED 36W MH175 E26 40K		175	120-277VAC	4500	36	>80	4000K	7.9	3.4	7.87" L x 7.87"	E26	No	16
L36HE265050K	LED 36W MH175 E26 50K		175	120-277VAC	4500	36	>80	5000K	7.9	3.4	7.87" L x 7.87"	E26	No	16
27W LED HID														
L27HE265040K	LED 27W MH100 E26 40K		100	120-277VAC	3375	27	>80	4000K	6.5	2.4	7.87" L x 7.87"	E26	No	16
L27HE265050K	LED 27W MH100 E26 50K		100	120-277VAC	3375	27	>80	5000K	6.5	2.4	7.87" L x 7.87"	E26	No	16
18W LED HID														
L18HE265040K	LED 18W MH75 E26 40K		75	120-277VAC	2250	18	>80	4000K	5.8	2.4	7.87" L x 7.87"	E26	No	16
L18HE265050K	LED 18W MH75 E26 50K		75	120-277VAC	2250	18	>80	5000K	5.8	2.4	7.87" L x 7.87"	E26	No	16
12W LED HID														
L12HE265040K	LED 12W MH50 E26 40K		50	120-277VAC	1500	12	>80	4000K	5.0	2.4	7.87" L x 7.87"	E26	No	16
L12HE265050K	LED 12W MH50 E26 50K		50	120-277VAC	1500	12	>80	5000K	5.0	2.4	7.87" L x 7.87"	E26	No	16

* DLC qualified product at time of printing, consult designlights.org for the most up-to-date listing

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Specifications

360° BEAM ANGLE

L100MHX3950xxK

L80MHX3950xxK

L45MHX3950xxK

L45MHE2650xxK

L24MHE2650xxK

L19MHE2650xxK

ITEM #	DESCRIPTION	DLC*	METAL HALIDE EQUIVALENT	VOLTAGE	BASE LAMP LUMENS	LED WATTS	CRI	COLOR TEMP	MOL (inches)	DIA (inches)	MIN ENCLOSURE DIMENSION (INCHES)	BASE	SENSOR COMPATIBLE	MASTER PACK
LED HID Corn Cob Lamp Series														
100W LED HID														
L100MHX395040K	LED 100W MH400 EX39 40K	★	400	120-277VAC	13500	100	>80	4000K	12.8	5.1	9.84" L x 9.84"	EX39	No	6
80W LED HID														
L80MHX395040K	LED 80W MH250 EX39 40K	★	250	120-277VAC	10400	80	>80	4000K	11.6	5.1	9.84" L x 9.84"	EX39	No	6
L80MHX395050K	LED 80W MH250 EX39 50K	★	250	120-277VAC	10800	80	>80	5000K	11.6	5.1	9.84" L x 9.84"	EX39	No	6
45W LED HID														
L45MHX395040K	LED 45W MH175 EX39 40K	★	175	120-277VAC	5850	45	>80	4000K	10.8	3.4	7.87" L x 7.87"	EX39	No	16
L45MHX395050K	LED 45W MH175 EX39 50K	★	175	120-277VAC	6075	45	>80	5000K	10.8	3.4	7.87" L x 7.87"	EX39	No	16
L45MHE265040K	LED 45W MH175 E26 40K		175	120-277VAC	5850	45	>80	4000K	10.8	3.4	7.87" L x 7.87"	E26	No	16
L45MHE265050K	LED 45W MH175 E26 50K		175	120-277VAC	6075	45	>80	5000K	10.8	3.4	7.87" L x 7.87"	E26	No	16
24W LED HID														
L24MHE265040K	LED 24W MH100 E26 40K		100	120-277VAC	3120	24	>80	4000K	6.7	2.5	7.87" L x 7.87"	E26	No	16
19W LED HID														
L19MHE265040K	LED 19W MH70 E26 40K		70	120-277VAC	2470	19	>80	4000K	6.1	2.5	7.87" L x 7.87"	E26	No	16

* DLC qualified product at time of printing, consult designlights.org for the most up-to-date listing

Note: These lamps will be phased out. Please check with your TCP Representative concerning availability.

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Specifications

LHSIR001

HID HB PIR Occupancy Sensor:

When connected to the TCP HID Corn Cob Lamp, the sensor delivers excellent motion detection. When no motion is detected, the TCP HID Corn Cob Lamp brightness will be switched to a preset Dim Level from 0 – 60%. When motion is detected, the TCP HID Corn Cob Lamp, brightness will be switched to 100% for a preset Hold Time. If natural light is present, the Lamp will turn off.

Features:

- Normal Motion Detecting
- Daylight Threshold
- Step Dimming
- Do not expose directly to water
- One module for one lamp
- Not suitable for enclosed luminaries
- Set the Dim Level and Hold Time before installation

Voltage	15V DC ± 2V
Output Voltage	0-10V
Current	20mA
Sensing Angle	120° (Installation Vertically)
Detecting Range	Around Dia 10m
Standby Power Range	0% - 60%
Illuminance	Around 300LUX
Operating Temperature	-20°C ~ + 35°C (4°F~ + 95°F)
Storage Temperature	-20°C ~ + 40°C (-4°F~ + 104°F)
Hold Time Options	30S/90S/5Min/10Min
IP Rating	IP20
Warranty	5 Years

LHSDL001

HID HB Daylight Sensor:

When connected to the TCP HID Corn Cob Lamp, the sensor delivers natural light detection. When the natural light level is below the Lux setting, the TCP HID Corn Cob Lamp will turn on for the preset Hold Time. When the natural light level is above the Lux setting, the TCP HID Corn Cob Lamp will turn on.

Features:

- Only Identify Natural Light
- Daylight Threshold
- One module for one lamp
- Set the Lux Level and Hold Time before installation

Voltage	15V DC ± 2V
Output Voltage	0-10V
Current	20mA
LUX Range	20-∞
Operating Temperature	-20°C~ + 60°C, -4°F~ + 14-F
IP Rating	IP20
Warranty	5 Years

LHSMW001

HID HB Microwave Occupancy Sensor:

When connected to the TCP HID Corn Cob Lamp, the sensor delivers 120° detection through objects and walls. When no motion is detected, the TCP HID Corn Cob Lamp brightness will be switched to a preset Dim Level from 0 – 60%. When motion is detected, the TCP HID Corn Cob Lamp brightness will be switched to 100% for a preset Hold Time.

Features:

- Normal Motion Detecting
- ON/OFF Function
- Step Dimming
- Do not expose directly to water
- One module for one lamp
- Not for outdoor use
- Set the Dim Level and Hold Time before installation

Frequency	5.8 GHz ± 75MHz
Voltage	15V DC± 2V
Output Voltage	0-10V
Current	20mA
Transmit Power	1mW
Sensing Angle	120° (Installation Vertically)
Detecting Range	Around Dia 10m
Operating Temperature	-20°C ~ + 60°C (-4°F~ + 140°F)
Storage Temperature	-20°C ~ + 40°C (-4°F~ + 104°F)
IP Rating	IP20
Warranty	5 Years

Sensor Installation

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LED HID Corn Cob Lamps & Sensors

LED HID Corn Cob Lamp Installation and Instruction Guide

WARNING! RISK OF ELECTRIC SHOCK! DISCONNECT POWER AT FUSE OR CIRCUIT BREAKER BEFORE INSTALLING OR SERVICING!

For MODELS L12HE265040K, L12HE265050K, L18HE265040K, L18HE265050K, L27HE265040K, L27HE265050K, L36HE265040K, L36HE265050K, L45HE265040K, L45HE265050K, L45HEX395040K, L45HEX395050K, L54HEX395040K, L54HEX395050K, L63HEX395040K, L63HEX395050K, L80HEX395040K, L80HEX395050K, L100HEX395040K, L100HEX395050K, L120HEX395040K, L120HEX395050K

STEP #1

POWER OFF

TURN OFF POWER AT CIRCUIT BREAKER to prevent risk of electric shock.

STEP #2

Fig 1

Remove old ballast or disconnect from existing lamp holder. Remove and dispose of ballast in correct manner (also disconnect any other components such as ignitors, starters, capacitors). Shown as Figure 1.

STEP #3

Fig 2

Reconnect directly to the existing lamp holder. Shown as Figure 2.

STEP #4

Fig 3

Install new LED replacement lamp. Shown as Figure 3. Please make sure old socket is correctly grounded.

STEP #5

If lamp being installed is over 60w, attach provided tether cable to lamp. Locate either entry hole(**1**) on lamp shown in diagram and feed looped end of tether cable(**2**) through hole. You may need to crimp with pliers first. Once through, take end with grappling clip through loop as shown, tighten and secure clip to safe location.

STEP #6

This luminaire has been modified to operate LED lamps.
Do not attempt to install or operate HID lamps or Compact Fluorescent Luminaires in this luminaire.
In the future, use only bypass lamps.

LED RETROFIT LUMINAIRE CONVERSION
FOR USE ONLY WITH PRODUCTS DESCRIBED AND INSTALLED IN ACCORDANCE WITH
THE INSTRUCTIONS PROVIDED WITH THIS RETROFIT KIT (E353692)

Order at www.tcpi.com

REPLACEMENT LAMP:
LXXHE2650YYK ("XX" = 12W & 18W & 27W & 36W & 45W & 54W & 63W & 100W & 120W)
LXXHEX3950YYK ("YY" = 40W (4000K) & 50W (5000K))
LXXHBE2650YYK ("XX" = 60W & 80W & 115W)
LXXHBEX3950YYK ("YY" = 40W (4000K) & 50W (5000K))

Please apply included label to retrofitted luminaire in a visible location.

STEP #7

POWER ON

TURN ON POWER AT CIRCUIT BREAKER

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TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 20 years, TCP has been designing, developing and delivering energy-efficient lighting into the market. Thanks to our cutting-edge technology and manufacturing expertise, we have shipped billions of high quality lighting products. With TCP, you can count on a lighting product that is designed to meet the needs of the market - that transforms your surroundings and envelopes you in warmth - lighting that generates beauty with every flip of the switch.

For more information on the quality and care TCP can deliver, call us at 800.324.1496 or visit tcpi.com

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