KEYSTONE
SINCE 1945
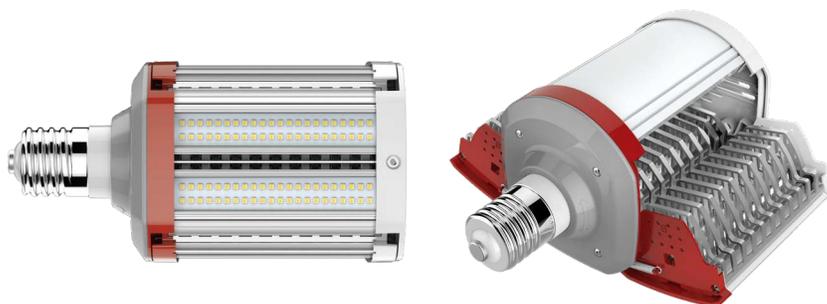LIGHT MADE EASY

DIRECT DRIVE HID LED

KT-LED80HID-H-EX39-850-D /G3
HID REPLACEMENT LED LAMP

DESCRIPTION

80W HID Replacement LED Lamp | 5000K | 85 CRI | IP64 Rated

LAMP TYPE: HID Replacement LED	
BASE TYPE: EX39 (Mogul) Rotatable	
WATTAGE: 80W	
COLOR TEMPERATURE: 5000K	
METAL HALIDE EQUIVALENT: 250W / 320W	
COLOR RENDERING INDEX (CRI): 85	
WARRANTY: 5 Years	

NLB NATIONAL LIGHTING BUREAU TRUSTED WARRANTY · *c(UL)us LISTED* · *DLC LISTED* · *RoHS Compliant* · *5 YEAR WARRANTY*

PRODUCT FEATURES

- Replacement for conventional metal halide lamp
- Ideal for shoebox and canopy retrofit applications
- 50,000+ hour lifetime
- Environmentally friendly: No mercury used
- Instant startup
- UL Listed; listed on DLC QPL
- Optimized for horizontal applications with directional light output from opening LED assembly construction
- Operating temperature: −30°C to 60°C / −22°F to 140°F in enclosed fixture.*

- Exceeding 30°C / 86°F in fully enclosed fixtures will engage active cooling and power de-rating to ensure full product lifetime
- Integral driver, eliminates the need for external driver or ballast; includes 4kV surge protection
- IP64 Rated; integrated heat sink quickly dissipates heat and guides water intrusion out of the lamp
- Suitable for use in fully enclosed fixture. Minimum lamp compartment dimensions: 11in x 11in x 9.2in
- Do not use with standard dimmers. Not compatible with phase dimmers. Dimming functions with sensors only

*Lamp may enter SmartCooling mode in order to optimize lamp performance when fixture environmental ambient temperature reaches 35°C–45°C / 95°F–113°F, depending on the fixture type. During this condition, lamp power consumption and lumen output may be regulated up 20% less than standard operation.

OPERATING SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Input Voltage	Power Consumption	Power Factor	Input Current
120–277Vac	80W	>0.9	0.67A @ 120V 0.29A @ 277V

RATED LIFE

L70 (Hours)	50,000

PHOTOMETRIC CHARACTERISTICS

Color Temperature (CCT)	5000K
Luminous Flux*	12000 lm
Color Rendering Index (CRI)	85
Efficacy	150 lm/W
Beam Angle	180°

* Based off of total lamp lumens

SPECTRAL DISTRIBUTION

Flux (W/nm) vs Wavelength (nm)
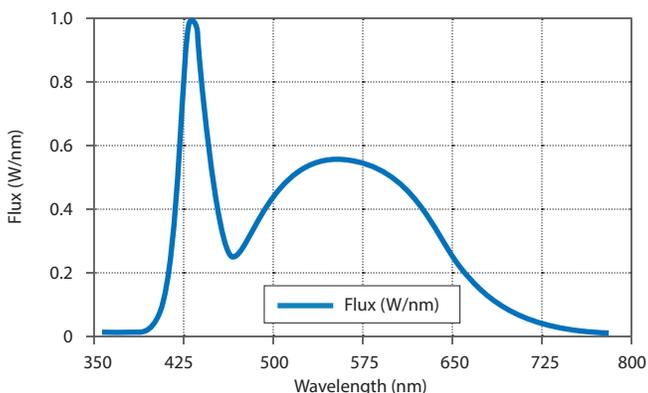
SMART PORT LED
Low voltage AUX port for Smart Port LED sensors.
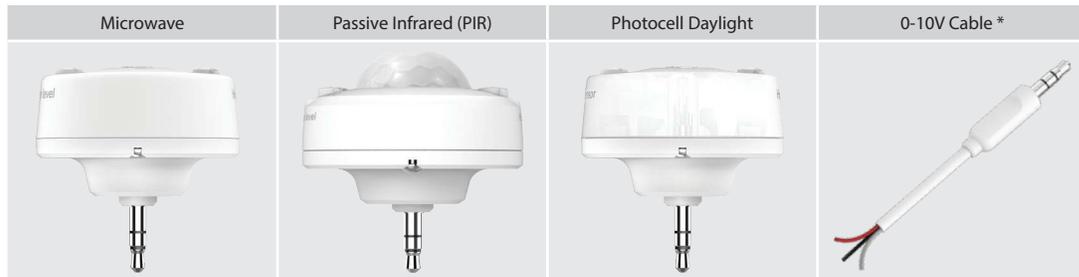
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SMART PORT LED

On the top of the lamp is a low-voltage AUX port for lamp level sensor controls.

SMART PORT LED AUX SENSORS

Microwave	Passive Infrared (PIR)	Photocell Daylight	0-10V Cable *

* For use with continuous dimming applications.

PHYSICAL CHARACTERISTICS
LAMP DIMENSIONS

Wings Closed

A (Body Length)	8.76"
B (Illuminated Length)	4.50"
C (Width)	4.39"
D (Height)	4.66"

Base Type: EX39 (Mogul) Rotatable
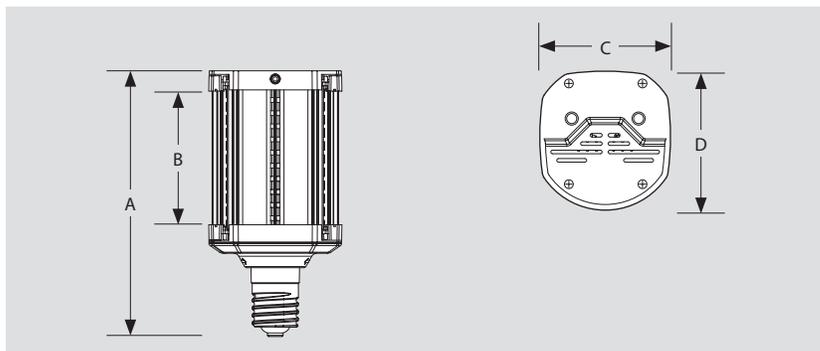
Wings Open

A (Body Length)	8.76"
B (Illuminated Length)	4.50"
C (Width)	9.00"
D (Height)	4.66"

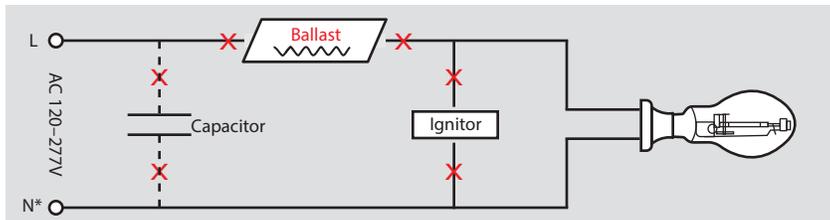Base Type: EX39 (Mogul) Rotatable
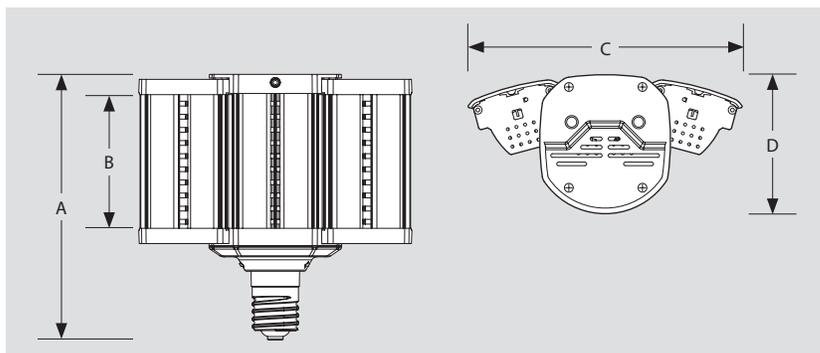
KT-LED80HID-H-EX39-850-D /G3
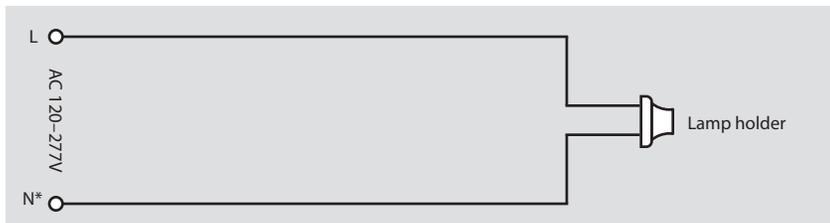## HID REPLACEMENT LED LAMP

WIRING INSTRUCTIONS

STEP 1
Disconnect power. Disconnect and remove existing ballast, capacitor, and/or ignitor (where applicable) from fixture.
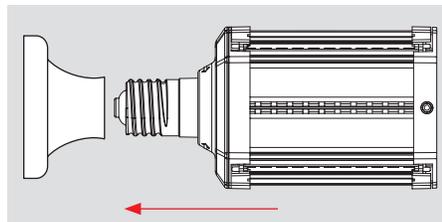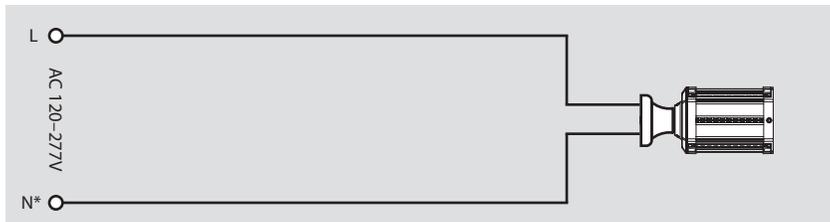

STEP 2
Rewire for line voltage to the lamp socket. Lamp is compatible with 120-277V from single phase, three phase wye, and three phase delta systems.
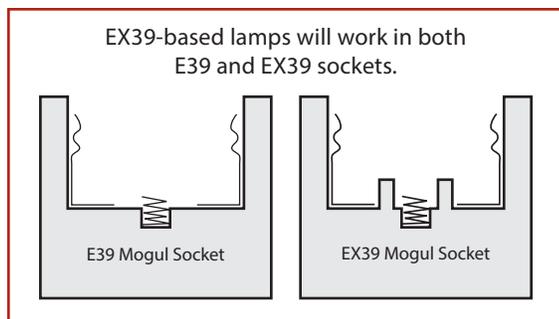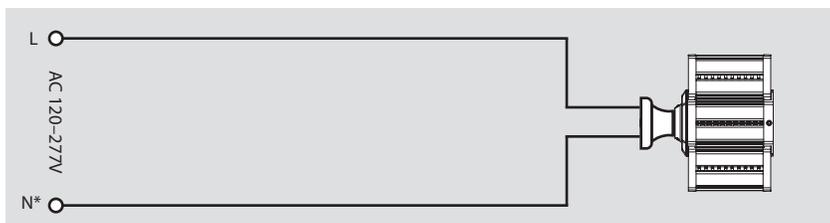

STEP 3
Install new LED replacement lamp. Ensure lamp is operating properly when power is turned on.

STEP 4
Rotate lamp base and open wings accordingly toward direction of desired lumination. Note: The lamp will not illuminate until wings are open

*or other line for certain three phase systems such as 120/208 three phase wye systems

EX39-based lamps will work in both E39 and EX39 sockets.

E39 Mogul Socket   EX39 Mogul Socket

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OPTIONAL ACCESSORIES

CATALOG NUMBER	DESCRIPTION
KTS-MW1-12V-AUX	SmartPort LED Microwave Occupancy sensor. On/Off with adjustable standby dimming level. 12V input, 3.5mm standard AUX port connection method
KTS-PIR1-12V-AUX	SmartPort LED PIR Occupancy sensor. On/Off with adjustable standby dimming level. 12V input, 3.5mm standard AUX port connection method
KTS-PS1-12V-AUX	SmartPort LED Photocell. On/Off with adjustable daylight threshold and timing. 12V input, 3.5mm standard AUX port connection method

ORDERING INFORMATION

ORDER CODE	PACK QTY.	UPC	EASY CODE	DLC PRODUCT ID
KT-LED80HID-H-EX39-850-D /G3-DP	16	843654123585	WFI-53	P0N37N00

CATALOG NUMBER BREAKDOWN
KT-LED80HID-H-EX39-850-D /G3
1 2 3 4 5 6 7 8 9 10 11

1 Keystone Technologies
2 LED Lamp
3 Wattage
4 Lamp Type
5 Horizontal Orientation
6 Base Type
7 800 Series
8 Color Temperature
9 Direct Drive Series
10 Third Generation
11 Sensor Options

11 Sensor Options

	No Option
/PIR	PIR Occupancy Sensor included
/MW	Microwave Occupancy Sensor included
/PS	Photocell Sensor Included