LED Lamps - HID



ED18 HID Replacement Lamp

Current's ED18 LED HID Replacement provides 400w equivalent lumen output from an ED18 lamp, making it possible to upgrade more applications to LED without replacing an entire fixture. The existing fixture is wired to bypass the ballast, which reduces energy use and eliminates the need to check ballast compatibility.

PERFORMANCE HIGHLIGHTS:

LED ED18 Replacement Lamps	
Light Output:	30,000 Lumens
CRI:	70
CCT:	3000K, 4000K, 5000K
Input Voltage:	120-277V
Efficiency:	167 LPW
Wattage:	180W
Life:	50,000 hours L70
Temperature Rating:	-40°C to 50°C
Location Rating:	Damp; Open or Enclosed

LIMITED WARRANTY

5 years

FEATURES:

- 30,000 lumens - Exceeds NEMA standard for High Pressure Sodium 400W equivalency
- Operates from 120-277VAC input voltage (ballast bypass)
- Matches ANSI length & diameter for ED18 lamp shape
- Lasts 2x longer than HID (compared to 24,000-hr B50)
- Tether kit and in-line fuse included
- These lamps are energy efficient, contain no lead or mercury and are compliant with material restriction requirements of RoHS

BENEFITS:

- Upgrade 400W ED18 applications to LED simply, with a lamp
- Significant increase in CRI compared to High Pressure Sodium lamps, from 21 to 70 CRI
- Three color temperature options to replace 2100K traditional High Pressure Sodium
- High output from a compact ED18 size - enabled by active cooling technology
- Energy + Cost Savings: For example, an LED lamp using 180 watts saves $1,606 in energy costs over the rated life of the lamp vs. a standard 472 watt High Pressure Sodium system (400W lamp and 72W ballast) based on $0.11 per kWh
- Ballast bypass (Type B) wiring eliminates costs and hassle associated with replacing ballasts

LEARN MORE:

To learn more about saving money and energy, go to www.LED.com.

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ED18 Lamps

CUSTOMER NAME
PROJECT NAME
DATE NOTES

ED18 HID Replacement

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Carton Qty[2]	MOL (in)	MOD (in)	Lumens (Initial)	Color Temp.	CRI	Wattage Replacement[6]	Rated Life L70 (Hrs)[1]	DLC[4,5]	Location Rating[3]
LED Replacement Lamp for HID - Ballast Bypass (Type B)															
ED18	EX39	180	93312096	LED180ED18/730	120-277	3	9.7	3.0	30,000	3000K	>70	400W HPS/400W MH	50,000	-	Damp, Enclosed
ED18	EX39	180	93312098	LED180ED18/740	120-277	3	9.7	3.0	30,000	4000K	>70	400W HPS/400W MH	50,000	-	Damp, Enclosed
ED18	EX39	180	93312100	LED180ED18/750	120-277	3	9.7	3.0	30,000	5000K	>70	400W HPS/400W MH	50,000	-	Damp, Enclosed

These products are covered by U.S. Patents 10788163 and 10508776. These products may also be covered by other U.S. patents or pending applications.

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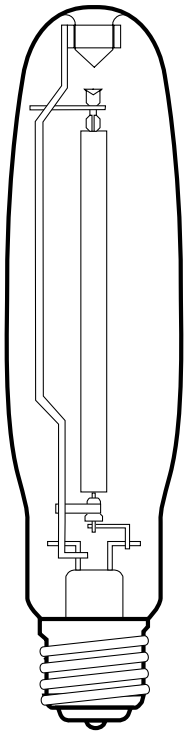
[1] The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen output (L70)
[2] Minimum order quantity from Current = 1
[3] UL 1993 Environmental Requirements for LED LAMPS
Damp Location – Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, including partially protected locations
[4] Not all product variations on this page are DLC qualified. Visit qpl.designlights.org/solid-state-lighting to confirm qualification.
[5] Do not use with phase-cut dimmers. Dimming functions only with external Variac control devices.
[6] Wattage Replacements based on NEMA Standards Publication LL 10-2020 *Replacing HID Lamps with LED Lamps: Light Output Equivalency Claims.*

GE LED lamps for HID replacement utilize a proprietary design with active cooling, which allows for high output from a compact size. The length and diameter match HID ANSI profiles. These lamps feature omnidirectional light output, with similar distribution to traditional HID lamps. This enables GE LED lamps to fit in a variety of fixtures while providing equivalent light levels to HID. All of the GE LED lamps in this category are Type B, which means the fixture is re-wired to bypass the ballast.

Lamp Drawings (not drawn to scale)



ED18



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