



LED Replacement Lamps for High/Low Bay HID Applications



PROUDLY MADE IN THE USA



*Shown with
Micro-Prism lens*



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Micro-Prism lens*

*Utility & Design
Patents Pending*

- New In-line high-efficiency power supply with PFC replaces energy-wasting ballast
- Remove/Recycle Ballast for additional ROI
- Direct Replacement for HID Bulbs and is 0-10 VDC dimmable (within Standard Dimming Protocols)
- Fits all conventional high-bay luminaire fixtures with no modification to fixture
- Retain current fixtures – No need for costly replacements (UL 1598C - LED Conversion)
- Selectable Output Level on each LED Hi-Bay to customize lighting levels
- Compatible with line voltages up to 277 VAC with no modification (50/60 Hz)
- Active Thermal Management circuitry ensures long operating life
- Thermal Safety Protection Fuse
- **It is recommended that an in-line surge protection device such as an Eaton Crouse-Hinds or TRP-FSP3-277 be installed.**
- **For exterior HI-Bay lamp installation surge protection is required.**

Indoor Commercial/Industrial/Institutional Applications:

- Warehouses
- Retail Box Stores
- Sports Complexes
- Parking Garages
- Fueling Stations
- Large Auditoriums
- Industrial Buildings
- Gymnasiums
- Correction Facilities

Available in Standard 4500K - Best Combination of Brightness for Security and Spectral Content for Accurate Color Representation. *Other Color Temps Available**

79 - 100 Lumens per Watt (CREE XLamp, XM-L2)
(Depending on Light Level Output setting)

72 - 80 CRI*
UL/CSA/CE • LM79, LM80, TM21
LDL & Bonneville Power Administration (BPA)**

	HI-Bay Model #	# LED's	Max Output Lumens (Variable)	System Watts ¹	Compare to HID Sys Watts
Bare Lamp Data	DEG-450550	30	14,881 (max @ 110v)	14-164 14w= 0 light	up to 600

¹**In-line Power Supply is estimated at 90% Efficiency for LED HI-Bay Lamp System Watts – 14w=0 light**

Please visit our website for Technical Specifications (LM79/LM80/TM21, TEMPO, IES files and additional test data).

**For additional Color Temperatures, greater CRI please contact our sales and engineering team.*

The Bonneville Power Administration (BPA) has reviewed and approved the mogul based LED's submitted by DEG and is currently accepting them and offering incentives through the non-residential lighting program. The DEG-450550 is **DLC listed.

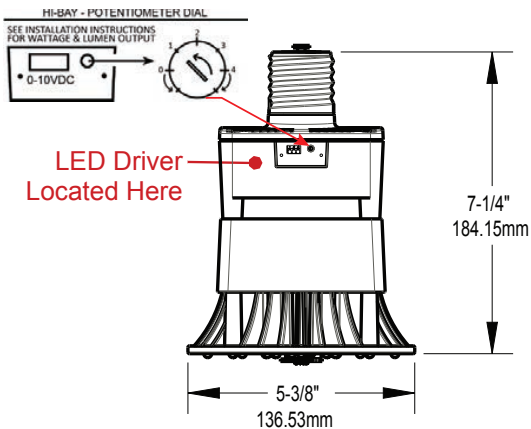
The LED HI-Bay is a direct replacement LED Lamp for E39/E40 mogul base HID bulbs in most indoor low/high bay fixtures.

DIFFERENTIAL ENERGY GLOBAL LTD **1-800-635-8188**
1540 Leader International Drive **(360) 895-1184**
Port Orchard, WA 98367-6437

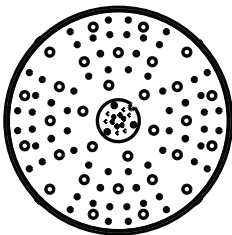
www.degLED.com • www.theleader.com • www.fairweathersf.com



Proudly Offered By:



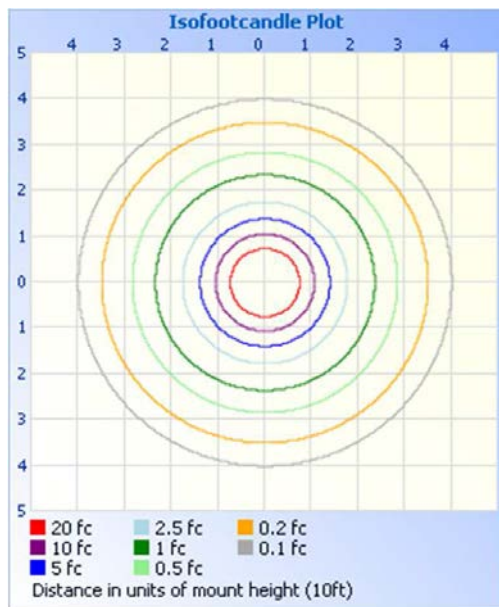
HI-BAY DEG-450550
SHOWN WITHOUT LENS
2lb. 4.2oz.
1.03kg.



Specifications	DLC In-Fixture Test Spec*	Bare Lamp Spec
MODEL	DEG-450550 HI-Bay	Ambient Operating Range -40°C to +40°C
INPUT POWER (SYSTEM WATTS)	164	175
HID EQUIVALENT (SYSTEM WATTS)	600	600
INPUT LINE VOLTAGE (VAC)	110-277	110-277
INPUT FREQUENCY (Hz)	50-60	50-60
BASE TYPE	MOGUL	MOGUL
LUMENS (In Fixture / Bare Lamp)	13,437	14,881
LUMEN EFFICACY (lm/W)	79	85
CCT	4500K	4500K
CRI	72	72
L70 Lumen Maintenance (In-Situ 46.6°C)	≥ 87.42%	≥ 87.42%
POWER FACTOR @ 110 VAC	0.995	0.996
NUMBER OF LED'S	30	30
LED TYPE	CREE XM-L2	
WARRANTY	5 year Non-Prorated	

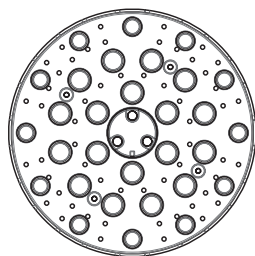
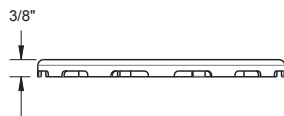
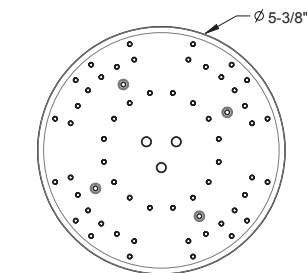
Note: Light output can be dialed downward via a user-accessible screw-adjustment, with resulting power savings and increased efficiency. Specifications shown for maximum output level

*Per metric requirements for application for DLC listing.



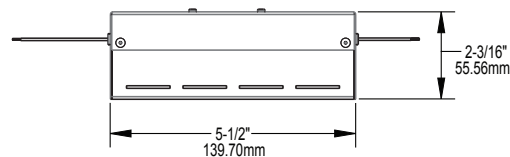
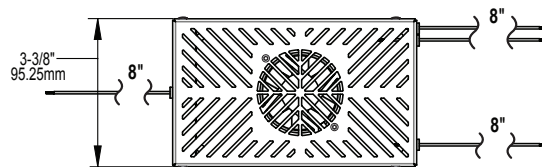
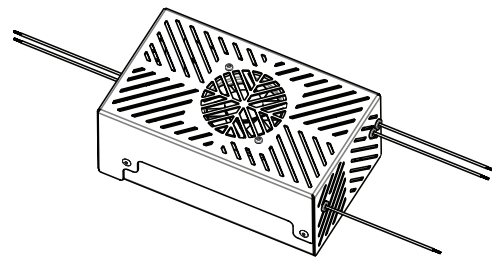
Zonal Lumens and Percentages at 25°C

SYSTEM WITH APPROVED POWER SUPPLY
CONFORMS TO:
FCC/CISPR 22:2008 Class A.
Conducted and Radiated Emissions



30 LED HI-BAY
MICRO-PRISM LENS

EXAMPLE OF AC TO 48VDC POWER SUPPLY



DEG HAS SEVERAL AC TO 48VDC POWER SUPPLIES
APPROVED FOR USE WITH ITS DEG-HI-BAY Lamps.
DO NOT USE UNAPPROVED POWER SUPPLIES.



IECEE 62471
Photobiological Safety
IEC 62560:2011
General Lighting

Note: When installing LED HI-Bay to replace HID bulb, ballast must be removed and recycled when present and the DEG approved AC/DC power supply installed in its place. Eliminating the ballast saves additional costs related to maintenance, energy consumption and performance and may be required by code.

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PSE PUGET SOUND ENERGY

