

## DEG-070120-G1.5 Replacement LED Lamp for HID Applications



*Shown with  
Micro-Prism  
Curved Lens  
Mogul Base (I)*

*Utility & Design  
Patents Pending*

- Direct Replacement for HID Bulbs
- Fully rotational 360° adjustment assists with Dark Sky cut-off requirements
- No modification required to conventional fully-enclosed luminaire fixtures
- For use in enclosed fixtures, even IP66 & IP67
- Remove/Recycle ballast for additional ROI - Install New In-line Power Supply
- Retain current fixtures – No need for costly replacements (UL1598C - LED Conversion)
- Small Compact direct replacement LED lamp for 70-120w HPS/MH bulbs

The LED HI-Lamp is a direct replacement LED Lamp for E39/E40 Mogul base HID bulbs in most outdoor enclosed fixtures. This LED Lamp requires a Factory Approved inline LED Driver.

### Outdoor and Commercial/Industrial/Institutional Applications:

- Parking Lot
- Warehouse Side Doors
- Wallpacks
- Parking Garages
- Canopy Lights
- Park/Entry Lighting
- Walkways
- Fueling Stations

**4500K Color Temperature\*** - Best Combination of Brightness for Security and Spectral Content for Accurate Color Representation.

<b>65 Lumens per Watt (CREE XLamp, XM-L2)</b>			<b>73.44 CRI*</b>	
Spec based on Curved Micro-Prism Diffused Lens - Tested In-fixture			UL/CSA/CE • LM79, LM80, TM21 & FCC LDL & Bonneville Power Administration (BPA)**	
<b>HI-Lamp Model #</b>	<b># LED's</b>	<b>Lumens</b>	<b>System Watts</b>	<b>Compare to HID System Watts</b>
DEG-070120-G1.5	4	1,345	21	up to 132w

*\*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-070120 is LDL listed.*

*Please visit our website for Technical Specifications (LM79/LM80/TM21)*

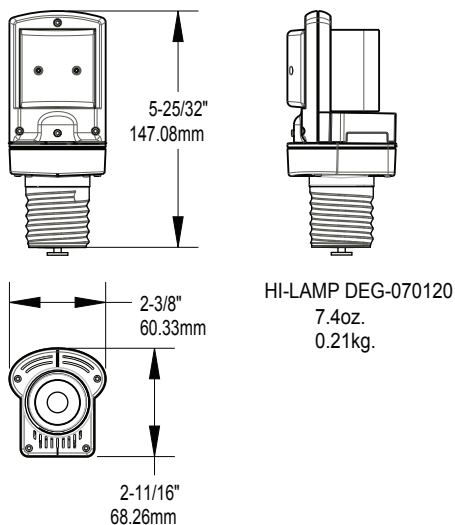
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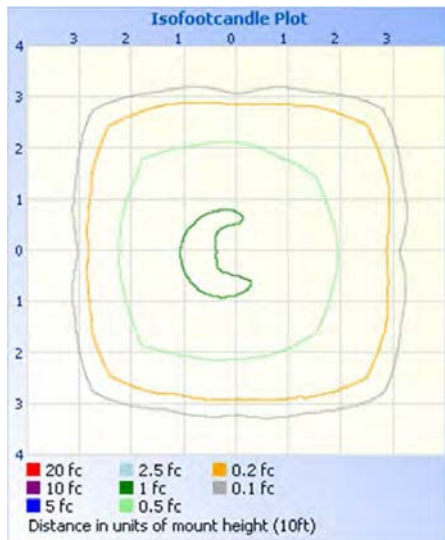
**Proudly Offered By:**



Specifications	In-Fixture Test Spec	Bare Lamp Spec
MODEL <b>DEG-070120-G1.5 HI-Lamp</b>	In-Situ 52.7° C	In-Situ 40.9° C
INPUT POWER (SYSTEM WATTS)	21	19
HID EQUIVALENT (SYSTEM WATTS)	UP TO 132	UP TO 132
INPUT LINE VOLTAGE (VAC)	110-277	120-277
INPUT FREQUENCY (Hz)	50-60	50-60
BASE TYPE	MOGUL	MED/MOGUL
LUMENS (In Fixture / Bare Lamp)	1,345	1,982
LUMEN EFFICACY (lm/W)	65	106.6
CCT	4500K	4500K
CRI	73.44	74.5
Minimum L70 Lumen Maintenance	87.82%	87.82%
POWER FACTOR @ 120 VAC	0.957	0.965
NUMBER OF LED'S	4	4
LED TYPE	CREE XM-L2	
WARRANTY	5 year Non-Prorated	

Note: Reduction in Lumen Output and lm/W is directly related to DEG's Thermal Foldback Protective Circuitry when tested in a Representative Fixture and in a Photometric Sphere. When considering results the test is performed at 25°C (77°F) in a Sphere (being near the highest recorded nighttime temperature in July). Average nighttime temps range between 5°C (41°F) and 15°C (59°F) annually across the U.S.; a much more realistic metric resulting in higher lumen output and increased lm/W results.

## Isoillumination Plots, Mounting Height 10'

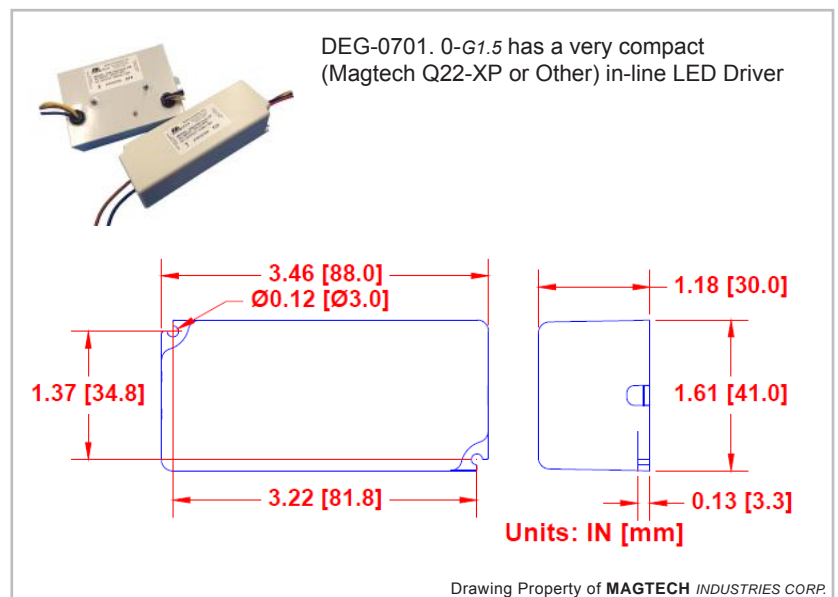


Zonal Lumens and Percentages at 25°C

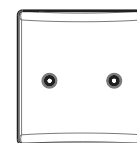
CONFORMS TO:  
FCC/CISPR 22:2008 Class A.  
Conducted and Radiated Emissions

**Note:** When installing LED HI-Lamp to replace HID bulb, ballast must be removed and recycled when present. Eliminating the ballast saves additional costs related to maintenance, energy consumption and performance and may be required by code.

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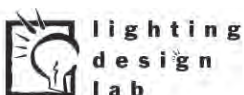


MICRO-PRISM LENS  
AND OPTICS FOR  
DEG-070120 HI-LAMP



CURVED

rev.HL070120.083016



IECEE 62471  
Photobiological Safety  
IEC 62560:2011  
General Lighting

