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LEDVANCE Lamps

HID REPLACEMENT LAMPS

PERFORMANCE CLASS



CCT Select Switch



Wattage Select Switch



Application

The LEDVANCE Performance Class HID replacement lamps are ideal for indoor high/low bay lighting and outdoor decorative post top fixtures in walkway lighting applications. The lumen and CCT selectable option allows for customizable light output replacing up to 1000W HID applications.

Benefits and Features

- Active cooling allows for the reduction in size of the lamp of up to 30%, allowing it to fit into tight spaces and more accurately mirroring the traditional ANSI footprint
- Lumen and CCT selectable light enabled through physical controls located on the lamp
- Rated for open and enclosed fixtures with an IP64 listing and polycarbonate lens
- 285° beam angle (or omnidirectional) with Type V distribution
- Up to 157 LPW
- 3000K, 4000K, and 5000K color temperature selectable via the switches located on the lamp
- CRI >80
- Each model offers three wattage levels adjustable via the switch located on the side of the lamp. The wattages of this family range from 10 to 450W
- Type V distribution
- Energy savings up to 83%

Electrical

- 120-277VAC or 277-480VAC
- Power Factor >90%
- THD <20%
- 4kV surge suppression

Rated Life

- 50,000 hours (L_{70})

Warranty

- 5-year
- NLB Trusted Warranty Program

Ambient Operating Range

- -40°F to +122°F (-40°C to +50°C)

Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
50W Metal Halide	60	10	83%
70W Metal Halide	84	20	76%
100W Metal Halide	120	25	79%
150W Metal Halide	180	38	79%
150W Metal Halide	180	50	72%
175W Metal Halide	210	60	71%
250W Metal Halide	300	75	75%
320W Metal Halide	384	100	74%
400W Metal Halide	480	120	75%
750W Metal Halide	900	360	60%
1000W Metal Halide	1200	450	63%

Certifications and Listings

- cULus 1598c
- RoHS
- FCC Class B
- IP64
- Lead Free
- Mercury Free
- DLC 5.1 Standard

Installation

- Requires easy ballast bypass
- Lamp operates directly on line voltage, 120-277VAC or 277-480VAC
- Suitable for both open and enclosed fixtures*
- For Item Numbers 42008 and 42009, if mounted at a 20° angle, you MUST use the support bracket provided.

*Refer to table on page 2 for minimum luminaire compartment size. Not suitable for sealed or vapor tight luminaires.

LED589R5 11-25

Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

HIDr	1A	/	SXXX	XXX	8	SC2	/	XXX
Product Name HIDr = HID Retrofit Lamp	Generation 1A = Generation 1A		Wattage 20 = 20W, 15W, 10W 50 = 50W, 38W, 25W 80 = 80W, 60W, 40W 120 = 120W, 90W, 60W 150 = 150W, 115W, 80W 200 = 200W, 150W, 100W 270 = 270W, 200W, 135W 360 = 360W, 270W, 180W 450 = 450W, 338W, 225W	Voltage UNV = 120-277V HUV = 277-480V	CRI 8 = >80	Color Temp SC2= 3000, 4000, or 5000K		Base MED = E26 MOG = EX39

Ordering Information

Item Number	Ordering Abbreviation	Power (W)	Input Voltage (V)	CRI	Color Temp.	Total Fixture Lumens @4000K	LPW @4000K	DLC	Base Type
42000	HIDr1A/S20UNV8SC2/MED	20W/15W/10W	120-277	>80	3000, 4000, or 5000K	2800lm/2025lm/1400lm	Up to 150	Exempt	E26
42001	HIDr1A/S50UNV8SC2/MED	50W/38W/25W	120-277	>80	3000, 4000, or 5000K	7500lm/5700lm/3875lm	Up to 150	Exempt	E26
42002	HIDr1A/S120UNV8SC2/MOG	120W/90W/60W	120-277	>80	3000, 4000, or 5000K	18000lm/13000lm/9000lm	Up to 150	5.1 Std	EX39
42003	HIDr1A/S200UNV8SC2/MOG	200W/150W/100W	120-277	>80	3000, 4000, or 5000K	31000lm/24700lm/17000lm	Up to 150	5.1 Std	EX39
42004	HIDr1A/S270UNV8SC2/MOG	270W/200W/135W	120-277	>80	3000, 4000, or 5000K	43200lm/33000lm/21450lm	Up to 148	5.1 Std	EX39
42005	HIDr1A/S050HUV8SC2/MOG	50W/38W/25W	277-480	>80	3000, 4000, or 5000K	7750lm/5890lm/3875lm	Up to 140	5.1 Std	EX39
42006	HIDr1A/S080HUV8SC2/MOG	80W/60W/40W	277-480	>80	3000, 4000, or 5000K	12400lm/9300lm/6200lm	Up to 150	5.1 Std	EX39
42007	HIDr1A/S150HUV8SC2/MOG	150W/115W/80W	277-480	>80	3000, 4000, or 5000K	23250lm/17825lm/12400lm	Up to 157	5.1 Std	EX39
42008*	HIDr1A/S360HUV8SC2/MOG	360W/270W/180W	277-480	>80	3000, 4000, or 5000K	55800lm/41850lm/27900lm	Up to 147	5.1 Std	EX39
42009*	HIDr1A/S450HUV8SC2/MOG	450W/338W/225W	277-480	>80	3000, 4000, or 5000K	69750lm/52390lm/34875lm	Up to 144	5.1 Std	EX39

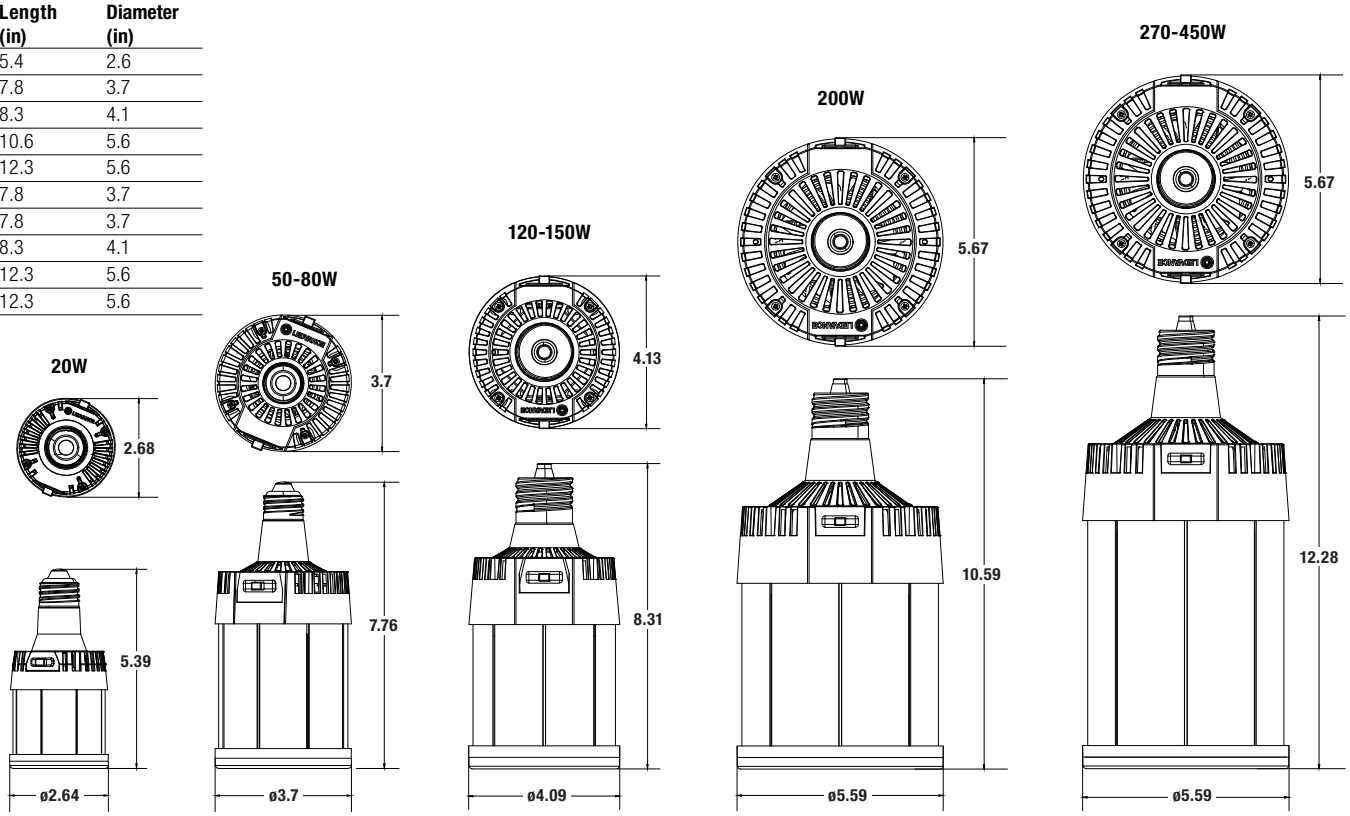
*For Item Numbers 42008 and 42009, if mounted at a 20° angle, you MUST use the support bracket provided.

Compartment Dimensions

Item Number	Ordering Abbreviation	Min. Lamp Compartment Dimensions (inch/mm)	Open/Enclosed	Orientation
42000	HIDr1AS20UNV8SC2MED	12.6in x 7.5in x 7.5in / 320mm x 190mm x 190mm	Open & Enclosed	Any
42001	HIDr1AS50UNV8SC2MED	16.5in x 8.3in x 8.3in / 420mm x 210mm x 210mm	Open & Enclosed	Any
42002	HIDr1AS120UNV8SC2MOG	17.3in x 10.2in x 10.2in / 440mm x 260mm x 260mm	Open & Enclosed	Any
42003	HIDr1AS200UNV8SC2MOG	17.3in x 8.7in x 8.7in / 440mm x 220mm x 220mm	Open Only	Vertical (±20°)
42004	HIDr1AS270UNV8SC2MOG	17.3in x 8.7in x 8.7in / 440mm x 220mm x 220mm	Open Only	Vertical (±20°)
42005	HIDr1AS050HUV8SC2MOG	16.5in x 8.3in x 8.3in / 420mm x 210mm x 210mm	Open & Enclosed	Any
42006	HIDr1AS080HUV8SC2MOG	16.5in x 10.2in x 10.2in / 420mm x 260mm x 260mm	Open & Enclosed	Any
42007	HIDr1AS150HUV8SC2MOG	18.5in x 11.8in x 11.8in / 470mm x 300mm x 300mm	Open & Enclosed	Any
42008	HIDr1AS360HUV8SC2MOG	17.3in x 8.7in x 8.7in / 440mm x 220mm x 220mm	Open Only	Vertical (±20°)
42009	HIDr1AS450HUV8SC2MOG	17.3in x 8.7in x 8.7in / 440mm x 220mm x 220mm	Open Only	Vertical (±20°)

Physical Information

NAED	Length (in)	Diameter (in)
42000	5.4	2.6
42001	7.8	3.7
42002	8.3	4.1
42003	10.6	5.6
42004	12.3	5.6
42005	7.8	3.7
42006	7.8	3.7
42007	8.3	4.1
42008	12.3	5.6
42009	12.3	5.6



Dimensions in inches

Active Vs Passive Cooling Product Comparison

50W comparison



120W comparison



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