



LED LAMPS

ProLED[®] **Halco HID High Bay** **Retrofit Series**



UL Rated



5 Year Warranty



DLC Qualified

The ProLED[®] HID High Bay Retrofit Series lamps are an easy to install LED replacement for 400W Metal Halide lamps. Designed specifically for high bay luminaires, this new HID Retrofit Series is available in 90W and 120W and has an efficacy of up to 140 LPW. The directional design offers the most effective way to deliver an equal amount of light to the work plane, when compared to omnidirectional metal halide sources. The unique passive cooling design, uses louvred heat sink to minimize dust intrusion, and allows this lamp to be rated for enclosed fixture use. A 50,000 hour useful life, combined with the ability to eliminate the ballast ensures that luminaire maintenance is a thing of the past.



Halco
LIGHTING TECHNOLOGIES

Two Lumen Packages
Producing up to
16,800 Lumens

EX39 Base

Directional Optical Design
Maximizes Lighting
Performance

Unique Passive Cooling
Design Cools Efficiently
while Minimizing Dust
Intrusion

Backed By a
5-Year Warranty

Applications:

High Bay Luminaires

Markets:

Commercial
Industrial

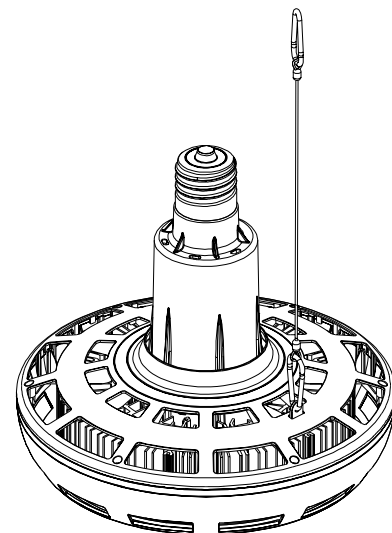
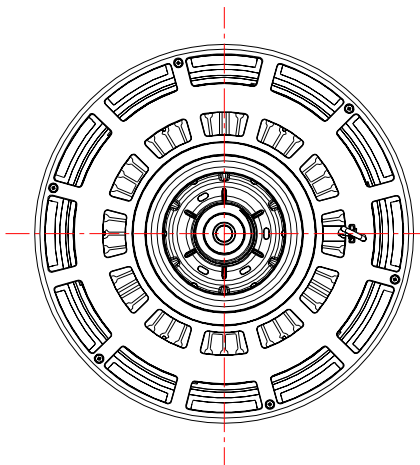
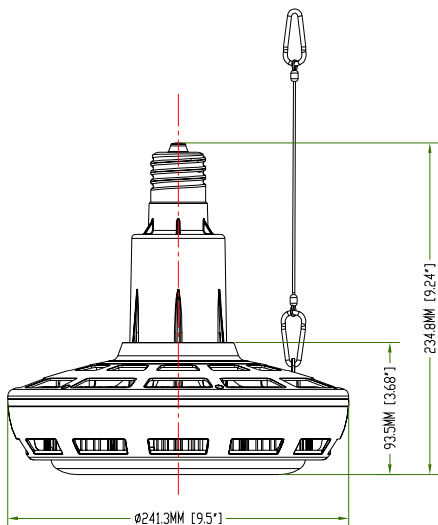
Contact Your Customer Care Specialist
For Pricing, Orders And Technical Support.
800.677.3334 **www.halcolighting.com**

Halco HID High Bay Retrofit Series

Product #: _____ Type: _____

Project: _____ Date: _____

Comments: _____ Initials: _____



Performance

CRI _____ 84
Rated Life _____ 50,000 hour life
Watt _____ 90W and 120W
Lumens per Watt (LPW) _____ >140
Input Line Voltage _____ 100-277V

* On standard (0.88 BF) ballast

Min. Start Temp. _____ -13°F(-20°C)
Max. Operating Temp. _____ 122°F(50°C)
Power Factor _____ 0.99
Warranty _____ 5-Year Limited
Control _____ Non-Dimmable
Weight _____ 4.8 lbs.

Construction

- Includes safety cable for additional security
- EX39 base
- Passive cooling heat sink (no internal fan)
- Unique louvred heat sink shield avoids dust accumulation and heat build-up
- Isolated driver enclosure helps maintain optimal thermal performance

Electrical

- 100V-277V input range
- Non-Dimmable
- Integral 4KV surge protection
- 50/60 Hz operating frequency
- High power factor for optimal energy efficiency
- Superior efficacy - 140 lumens per watt

Installation

- Requires simple ballast bypass/removal to operate directly on line voltage
- UL Classified 1598C Retrofit Kit for high bay luminaires (maintains system UL compliance after luminaire modification)
- UL Listed for damp locations
- Rated for Use in ambient temperatures up to 50°C (122°F)
- Directional design offers superior delivered light when compared to omni-directional options

Ordering Information

Product Code	Product Number	Base	Wattage	Color Temp.	Lumens	CRI	Voltage
HID90/840/EX39/LED	84113	EX39	90W	4000K	11970	84	100-277V
HID90/850/EX39/LED	84114	EX39	90W	5000K	12150	84	100-277V
HID120/840/EX39/LED	84115	EX39	120W	4000K	16560	84	100-277V
HID120/850/EX39/LED	84116	EX39	120W	5000K	16800	84	100-277V

Halco HID High Bay Retrofit Series

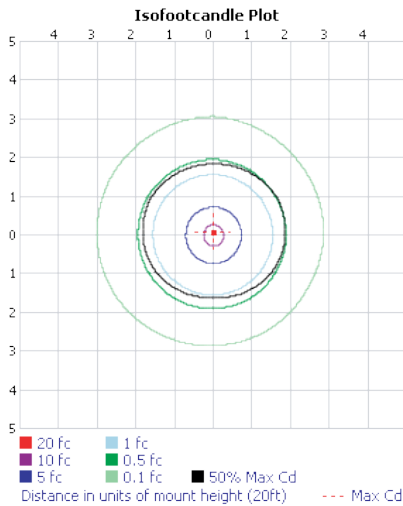
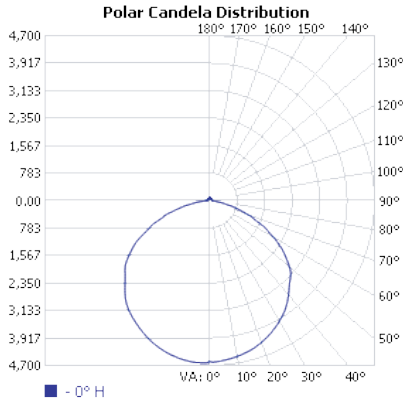
Product #: _____ Type: _____
 Project: _____ Date: _____
 Comments: _____ Initials: _____

ISO Footcandle Plots

Each grid line represents the mounting height shown. The grid scale is the based on the mounting height. For mounting heights other than noted, use the formula to the right.

$$\text{Factor} = \frac{(\text{Chart's Mtg. Height})}{(\text{Actual Mtg. Height})}$$

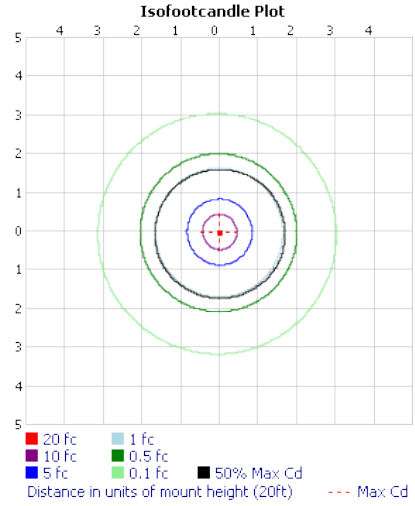
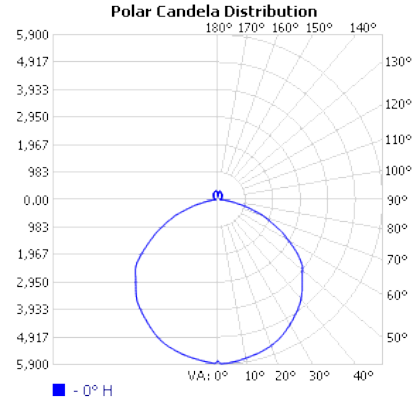
90W HID90/840/EX39/LED 84113
 HID90/850/EX39/LED 84114



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	3,605.5	25.3%	25.3%
0-40	5,985.7	41.9%	41.9%
0-60	10,936.5	76.6%	76.6%
60-90	2,908.1	20.4%	20.4%
70-100	1,218.4	8.5%	8.5%
90-120	210.8	1.5%	1.5%
0-90	13,844.6	97%	97%
90-180	426.4	3%	3%
0-180	14,271.0	100%	100%

LUMENS PER ZONE					
ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	433.0	3.0%	90-100	78.8	0.6%
10-20	1,249.5	8.8%	100-110	68.9	0.5%
20-30	1,923.0	13.5%	110-120	63.1	0.4%
30-40	2,380.2	16.7%	120-130	55.1	0.4%
40-50	2,552.2	17.9%	130-140	50.8	0.4%
50-60	2,398.6	16.8%	140-150	44.2	0.3%
60-70	1,768.6	12.4%	150-160	34.9	0.2%
70-80	905.4	6.3%	160-170	22.7	0.2%
80-90	234.1	1.6%	170-180	7.8	0.1%

120W HID120/840/EX39/LED 84115
 HID120/850/EX39/LED 84116



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	4,524.6	24.7%	24.7%
0-40	7,511.6	41%	41%
0-60	13,688.9	74.7%	74.7%
60-90	3,564.4	19.4%	19.4%
70-100	1,504.4	8.2%	8.2%
90-120	366.3	2%	2%
0-90	17,253.3	94.1%	94.1%
90-180	1,078.6	5.9%	5.9%
0-180	18,331.9	100%	100%

LUMENS PER ZONE					
ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	542.3	3.0%	90-100	111.4	0.6%
10-20	1,565.7	8.5%	100-110	120.2	0.7%
20-30	2,416.6	13.2%	110-120	134.7	0.7%
30-40	2,987.0	16.3%	120-130	156.1	0.9%
40-50	3,200.2	17.5%	130-140	164.4	0.9%
50-60	2,977.1	16.2%	140-150	155.4	0.8%
60-70	2,171.4	11.8%	150-160	127.9	0.7%
70-80	1,106.1	6.0%	160-170	85.1	0.5%
80-90	286.9	1.6%	170-180	23.4	0.1%

