

ProLED Area Light Retrofit Series



Features

- Extending Sides (Fold Down) to 160° beam angle
- 350° rotating base to ease installation
- 4000K and 5000K color temperature
- Rated for enclosed fixtures
- UL Listed for Wet locations
- IP64 Rated for dust protection
- EX39 base
- Integral 4kV Surge Protection
- Replaces 250W-400W MH or HPS
- 50,000 Hour Rated Lifetime
- 5 Year Warranty
- Ballast bypass
- Safety cable included



The ProLED Area Light Retrofit Series lamp is a perfect replacement for a 250W-400W MH or HPS in any exterior parking lot shoe box style luminaire. This lamp utilizes a rotating base to facilitate ease of installation and positioning. Once lamp sides are extended, this lamp offers a 160° beam angle which drastically increases the effective lighting area. This product is enclosed fixture rated, IP64 and is backed with a 5 Year Warranty.

Applications

Pre-existing HID Area Lights (Shoebox)

Ordering Information

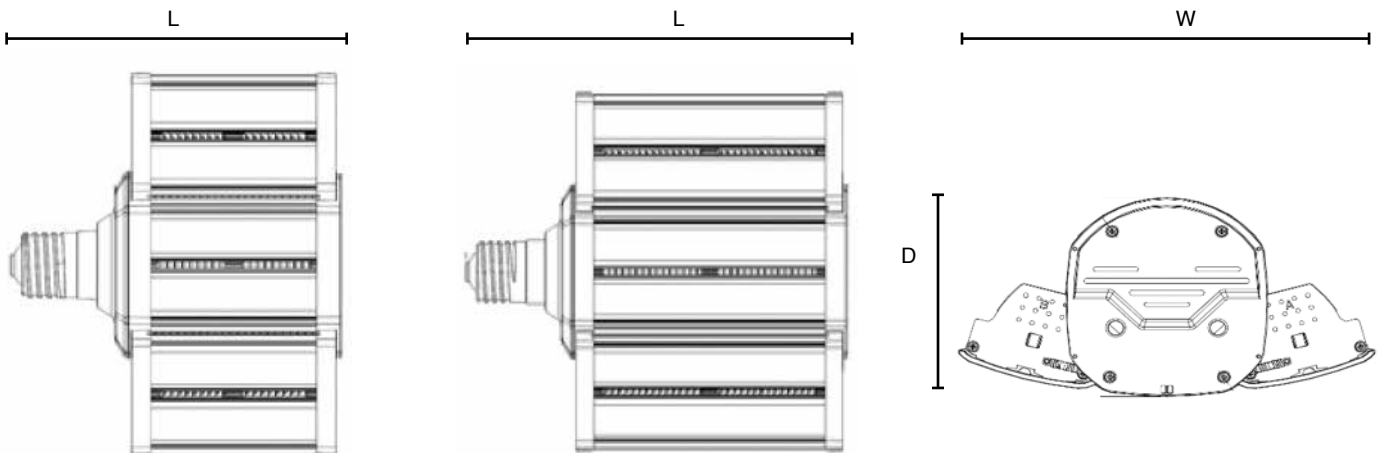
Ordering Code	Product Number	Wattage	CCT	Base	Example: HID80/850/AL/E39/LED							
84103	HID80/850/AL/EX39/LED	80	5000K	E39	HOUSING	WATTAGE	CRI	CCT	MODEL	BASE	TYPE	
84105	HID110/850/AL/EX39/LED	110	5000K	E39	HID	80	8	50	AL	E39	LED	
84102	HID80/840/AL/EX39/LED	80	4000K	E39		80	8=82	40=4000K	AL	E39	LED	
84104	HID110/840/AL/EX39/LED	110	4000K	E39		110		50=5000K				

Product Specification Table

Rated Wattage	80	110
Rated Lumen Output	10400	14300
Efficacy	>130lm/w	
Energy Savings	250W MH/HPS replacement equating to an approximate 65% energy savings	400W MH/HPS replacement equating to an approximate 70% energy savings
*L70 Useful Lifetime	50000hrs	
L70 Seller	Maintenance and relamping costs reduced dramatically due to high L70 life time rating	
Voltage Range	120 - 277VAC	
Base Type	E39	
CCT	400K, 5000K	
CRI	82	
Beam Angle	160°	
Surge Protection	4kV	
Warranty	5 Year Standard Halco Warranty	
Operating Temperature	- 40°F to 140°F	
Power Factor	>0.9	
**IP Rating	64	
LED Quantity	120	168
Qualifications	DLC Standard, UL, cULus, RoHS	
Product Weight (lbs)	2.69	3.65
Dimensions (in.)	8.7" x 4.3"	11.1" x 4.3"

*Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to operate past this point at decreased light levels. ** Check the latest update at www.DesignLights.org for listed product catalog numbers. All versions may not be listed. ***IP64 - Rated as 'Dust Tight' and 'Splash' protected

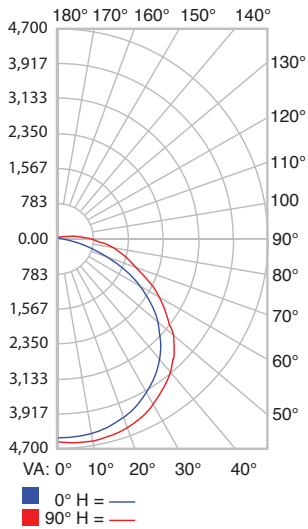
Dimensions



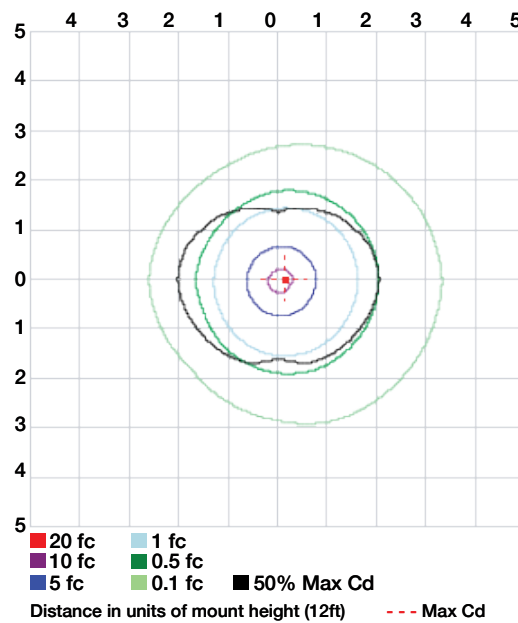
Watt	Dimensions
80W	D-4.66" x W-9.00 x L-8.7"
110W	D-4.66" x W-9.00 x L-11.09"

Photometrics

Polar Candela
80W ISO FC_15ft



ISO Footcandle plot
80W ISO FC_15ft



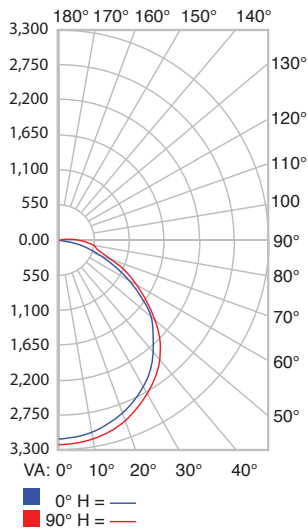
ZONAL LUMEN SUMMARY
ZONE LUMENS% LUMINAIRE

0-30	3,500.6	26.3%
0-40	5,760.9	43.4%
0-60	10,173.2	76.6%
60-90	2,797.5	21.1%
70-100	1,400.4	10.5%
90-120	215.8	1.6%
0-90	12,970.7	97.6%
90-180	317.4	2.4%
0-180	13,288.1	100%

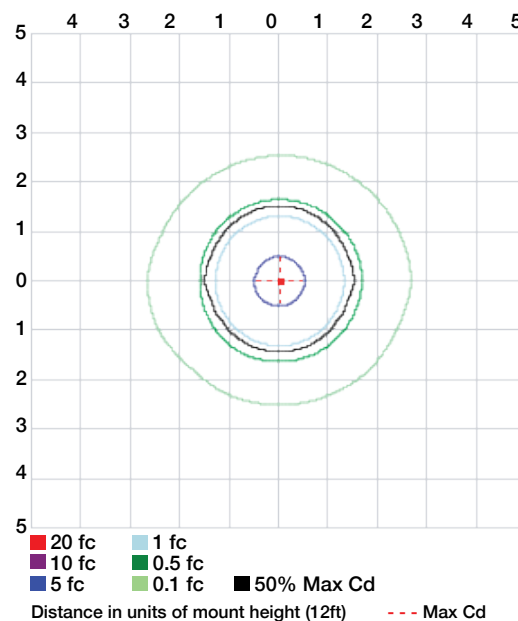
LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	422.8	3.2%	90-100	136.3	1%
10-20	1,217.0	9.2%	100-110	48.3	0.4%
20-30	1,860.8	14.0%	110-120	31.1	0.2%
30-40	2,260.3	17.0%	120-130	25.0	0.2%
40-50	2,341.5	17.6%	130-140	22.5	0.2%
50-60	2,070.9	15.6%	140-150	21.0	0.2%
60-70	1,533.5	11.5%	150-160	17.3	0.1%
70-80	882.0	6.6%	160-170	11.6	0.1%
80-90	382.1	2.9%	170-180	4.2	0%

Polar Candela
80W ISO FC_15ft



ISO Footcandle plot
80W ISO FC_15ft



ZONAL LUMEN SUMMARY
ZONE LUMENS% LUMINAIRE

0-30	2,479.7	27%
0-40	4,084.2	44.4%
0-60	7,209.5	78.4%
60-90	1,809.2	19.7%
70-100	853.6	9.3%
90-120	111.3	1.2%
0-90	9,018.8	98%
90-180	182.0	2%
0-180	9,200.8	100%

LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	299.4	3.3%	90-100	71.2	0.8%
10-20	862.3	9.4%	100-110	24.0	0.3%
20-30	1,318.1	14.3%	110-120	16.1	0.2%
30-40	1,604.4	17.4%	120-130	15.6	0.2%
40-50	1,666.0	18.1%	130-140	16.1	0.2%
50-60	1,459.4	15.9%	140-150	15.1	0.2%
60-70	1,026.8	11.2%	150-160	12.5	0.1%
70-80	561.2	6.1%	160-170	8.4	0.1%
80-90	221.2	2.4%	170-180	3.0	0%