

| Project: | | Type: |
|-----------|--------------|-------|
| Drawn by: | Catalogue #: | Date: |

Series Spec Sheet

L1RSH-L

ROUND ECONOMIC AND HIGH PERFORMING LUMINAIRE

Our economic series of LED High Bays are an energy efficient solution with a simple design. This type of luminaire is ideal for any application such as warehouses, manufacturing facilities, sports arenas, and other large high ceiling indoor applications. The IP65 rating allows this fixture to be installed where dust and water spray may be present.

APPLICATIONS

- Industrial, commercial, residential, dusty, wet or damp environments
- Warehouses
- Manufacturing

- Sports facilities
- Aerospace
- · Distribution center
- Convention Centers

FEATURES AND SPECIFICATIONS

Construction

Housing

- Pure light aluminum shell provides optimal heat dissipation and high lumen efficacy
- 10' power cable and dimming wires included

Mounting options

Hook mount standard. The hook is removable for 1/2" NPT conduit mounting. For additional security, use the safety cable accessory. A trunnion (± 90°) is also available for yoke bracket surface mounting (see accessories below).

Lens

Clear polycarbonate lens over LEDs provides a high light efficacy. Standard 110° beam angle.

Electrical

Driver

- 120-277 V or 347 V
- 1-10 V dimming driver

Operating temperature

-40 °C to +45 °C (-40 °F to 113 °F)

Compliances

- Suitable for damp and wet location
- IP65
- Meets requirements of ICES-005
- cULus Certified
- UL1598, UL8750





Aluminum reflector



Clear PC reflector





quick



















Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search.

OVERVIEW

| Light source | LED |
|-----------------------|-----------------|
| Watts (W) | 100 - 242 |
| Lumen output (Im) | 15 328 - 37 911 |
| Efficacy (Im/W) | 133 - 163 |
| Color temperature (K) | 4 000, 5 000 |
| CRI | 80 + |
| Weight (lbs) | 5.24 - 11.11 |

L1RSH-L • Rev. 2025-3-6





QUICK SHIP AND TECHNICAL SPECIFICATION TABLE :

| Order code | Model number | DLC Unique ID | Watts | Volts | Color temp. | Lumen output | Efficacy | CRI | Life L70 | Beam angle | Power factor | THD |
|--------------------|------------------|---------------|-------|------------------|------------------|-------------------|----------|-----|--------------------|------------|-----------------|------|
| | | | (W) | (V AC) | (K) ³ | (lm) ⁴ | (Im/W) | | (hrs) ⁵ | (°) | | (%) |
| 120-27 | 7 V 1 | | | | | | | | | | | |
| 68602 | L1RSH-LS3A-W/40K | PLED0HQHH0XJ | 205 | 120-277 | 4 000 | 27 341 | 133 | +08 | 173 000 | 110 | 0.96 | 9.09 |
| 68103 | L1RSH-LS3-W/50K | PLFW0H766CCH | 204 | 120-277 | 5 000 | 33 188 | 163 | +08 | 151 000 | 110 | 0.94 | 9.38 |
| 68105 | L1RSH-LS4-W/50K | PLSW0QD0MAKC | 242 | 120-277 | 5 000 | 37 911 | 157 | +08 | 151 000 | 110 | 0.96 | 6.61 |
| 347 V ² | | | | | | | | | | | | |
| 68290 | L1RSH-LS1-H/40K | PLYUQPE6NBRN | 100 | 3476 | 4 000 | 15 328 | 153 | +08 | 173 000 | 110 | 0.94 | 9.74 |
| 68291 | L1RSH-LS1-H/50K | PLB0l3G0DC52 | 100 | 347 ⁶ | 5 000 | 15 521 | 155 | +08 | 173 000 | 110 | 0.94 | 9.74 |

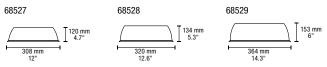
¹ External sensor available. See accessories table below.

ACCESSORIES (order separately)

| Order code | Туре | Compatible with |
|-----------------|--|------------------------------|
| 68527 | Aluminum reflector | S1 |
| 68528 | Aluminum reflector | S2 |
| 68529 | Aluminum reflector | S3 & S4 |
| 68530 | Clear PC reflector | S1 |
| 68531 | Clear PC reflector | S2 |
| 68532 | Clear PC reflector | S3 & S4 |
| 68533 | High frequency sensor (internal) Pre-settings: Bi-level 20 min, 10%1 | All 347 V configurations |
| KIT-0SE-F0-1101 | High frequency sensor (external) Pre-settings: On-Off 20 min ¹ | All 347 V configurations |
| 68534 | Trunnion (± 90°) | S1 |
| 68535 | Trunnion (± 90°) | S2 |
| 68536 | Trunnion (± 90°) | S3 & S4 |
| 68537 | Safety cable | S1 & S2 |
| 68538 | Safety cable | S3 & S4 |
| OSI-RC-HXGY347 | Remote Control for HD408VRH Sensor | 68533 and KIT-0SE-F0-1101 |
| OSI-RC-MH10 | IR Transmission Remote Device for MC609V | 68718 |

¹ For more settings, please consult the individual spec sheet.

ALUMINUM REFLECTOR SILVER 100°



CLEAR POLYCARBONATE REFLECTOR 90°



EXTERNAL SENSOR



INTERNAL SENSOR



COMPATIBLE DIMMERS

| Brand | Model number |
|---------|---------------|
| Lutron | DVSTV |
| Lutron | DVTV |
| Leviton | DS710 |
| Cooper | SF10P |
| Hubbell | LHD-IRS3-N-WH |

NOTE: The above table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Standard recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation. Some dimmers may require more than one product for stable operation. The maximum number of products is determined by the dimmer wattage rating with LEDs. Be careful, these dimmers have different ratings depending on the product type. Again, refer to the dimmer installation instructions.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.



² Internal and external sensors available. See accessories table below.

 $^{^{\}rm 3}$ Typical color temperature range: +/- 5 %.

⁴ Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

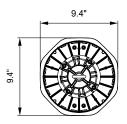
⁵ Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations.

⁶ Drivers operate from 277-480 V.

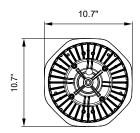


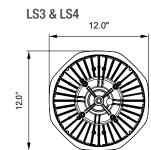
DIMENSIONS

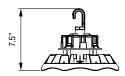
LS₁

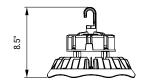


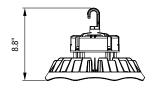








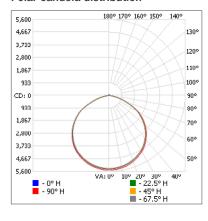




PHOTOMETRIC DATA¹

68098 • L1RSH-LS1-W/40K • 15 605.6 lm

Polar candela distribution



Zonal lumen summary

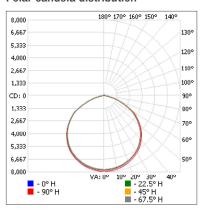
| Zone | Lumens | % Fixture |
|--------|----------|-----------|
| 0-30 | 4 280.3 | 27.4 |
| 0-40 | 7 076.3 | 45.3 |
| 0-60 | 12 650.8 | 81.1 |
| 60-90 | 2 746.8 | 17.6 |
| 70-100 | 928.4 | 5.9 |
| 90-120 | 91.8 | 0.6 |
| 0-90 | 15 397.7 | 98.7 |
| 90-180 | 208.0 | 1.3 |
| 0-180 | 15 605.6 | 100 |

Illuminance at a distance

| | Center beam fc | Beam | width |
|-------|--|-------|-------|
| 4.3' | 293 | 13.3' | 13.5' |
| 8.7' | 71.6 | 26.9' | 27.3' |
| 13.0' | 32.1 | 40.2' | 40.8' |
| 17.31 | 18.1 | 53.5' | 54.3' |
| 21.7' | 11.5 | 67.0' | 68.11 |
| 26.01 | 8.02 | 80.3' | 81.6' |
| | Vert. spread: 114 Horiz. spread: 11 | | |

68100 • L1RSH-LS2-W/40K • 22 388.3 lm

Polar candela distribution



Zonal lumen summary

| Zone | Lumens | % Fixture |
|--------|----------|-----------|
| 0-30 | 6 162.7 | 27.5 |
| 0-40 | 10 184.1 | 45.5 |
| 0-60 | 18 186.5 | 81.2 |
| 60-90 | 3 909.4 | 17.5 |
| 70-100 | 1 307.8 | 5.8 |
| 90-120 | 127.3 | 0.6 |
| 0-90 | 22 095.9 | 98.7 |
| 90-180 | 292.4 | 1.3 |
| 0-180 | 22 388.3 | 100 |

Illuminance at a distance

| | Center beam fc | Beam | width |
|-------|---|-------|-------|
| 1.7' | 2 700 | 5.2' | 5.3' |
| 3.3' | 717 | 10.1' | 10.4' |
| 5.0' | 312 | 15.3' | 15.7' |
| 6.7' | 174 | 20.5' | 21.1' |
| 8.31 | 113 | 25.3' | 26.11 |
| 10.0' | 78.0 | 30.5' | 31.4' |
| | Vert. spread: 113.5° Horiz. spread: 115.0° | | |

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.



¹ Complete IES files available on our website.