

L1RTH-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 stockrooms, manufacturing, sports arenas, and other large high ceiling indoor applications. This high bay comes in 3 different sizes, ideal for medium and large vertical spaces that require higher lumen output with the advantage of low-cost solution. The IP65 rating allows this fixture to be installed where dust and water spray may be present.

FEATURES AND SPECIFICATIONS

• Applications

- Industrial, commercial, residential, dusty, wet or damp environments
- Warehouses
- Manufacturing
- Sports facilities
- Aerospace
- Distribution center
- Convention Centers

• Construction

Housing

- Pure light aluminum shell provides optimal heat dissipation and high lumen efficacy
- 6' power cable and 6' of 0-10 V dimming wires standard. Additional lengths available. See options and accessories

Lens

Clear glass lens over LEDs provides a high light efficacy. Standard 110° beam angle. Additional reflectors available.

• Electrical

- The LED drivers allow input from 120-277 V, or 347 V with the following onboard surge protection:
- 4 kV standard for 120-277 V and 2 kV standard for 347 V

• Specifications

Driver

- 120-277 V and 347 V available
- 0-10 V dimming standard

Ambient temperature

-40 °C to +50 °C

Mounting

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

• Compliances

- Suitable for damp and wet location
- IP65
- Meets requirements of ICES-005
- cULus Certified
- UL1598, UL8750
- cCSAus
- Intertek certified to NSF 2



AVAILABLE REFLECTORS



Aluminum reflector silver



Polycarbonate clear reflector

OVERVIEW

Light source	LED
Watts (W)	99 - 244
Lumen output (lm)	12 753 - 32 151
Efficiency (lm/W)	128 - 138
Color temperature (K)	4 000, 5 000
CRI	80 +
Weight (lbs)	9.11 - 24.6



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.

QUICK SHIP AND TECHNICAL SPECIFICATION TABLE ¹

Part number	DLC unique ID	Watts (W)	Volts (VAC)	Color temp. ³ (K)	Lumen output ⁴ (lm)	Efficiency (lm/W)	CRI	Life L70 ⁵ (hrs)	Tested LM-80 ⁵ (hrs)	Dimming (V)	Power factor	THD (%)
L1RTH-LS1-W/50K	PL690Y4GS08E	99	120-277	5 000	13 018	132	80+	222 000	9 000	0-10	0.90	15
L1RTH-LS1-H/40K	PL5IKVC0H7KB	99	347	4 000	12 753	129	80+	238 000	9 000	0-10	0.90	19
L1RTH-LS1-H/50K	PLJRRX5L1VNT	99	347	5 000	13 138	133	80+	238 000	9 000	0-10	0.90	2
L1RTH-LS2-W/40K	PLUAMAH53CK	150	120-277	4 000	19 478	130	80+	207 000	9 000	0-10	0.95	12
L1RTH-LS2-W/50K	PLXOC27FP506	150	120-277	5 000	19 665	131	80+	207 000	9 000	0-10	0.95	12
L1RTH-LS2-H/40K	PLNO6V2E2D2Z	148	347	4 000	20 306	137	80+	236 000	9 000	0-10	0.89	20
L1RTH-LS2-H/50K	PLTTBRPNAUE3	148	347	5 000	20 444	139	80+	236 000	9 000	0-10	0.89	19
L1RTH-LS3-W/50K	PLJ6XIUBAZ0	202	120-277	5 000	26 588	131	80+	196 000	9 000	0-10	0.94	8
L1RTH-LS3-H/40K	PLNQVBKAUTIM	198	347	4 000	26 502	134	80+	219 000	9 000	0-10	0.89	13
L1RTH-LS3-H/50K	PLYR6RGBG9FU	197	347	5 000	26 960	137	80+	219 000	9 000	0-10	0.89	15
L1RTH-LS4-W/40K	PL1FWNA4XCA	244	120-277	4 000	31 553	129	80+	182 000	9 000	0-10	0.92	8
L1RTH-LS4-H/40K	PLQFPA9QBH84	238	347	4 000	31 478	132	80+	204 000	9 000	0-10	0.88	15
L1RTH-LS4-H/50K	PLKP9RC9NVR9	238	347	5 000	32 151	135	80+	204 000	9 000	0-10	0.88	15

¹ **QUICK SHIP:** Product availability is subject to change without notice. Please contact your Standard-Stanpro customer service representative to confirm inventory levels at time of order.

² Please consult factory for lead time. MOQ may apply.

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-80-08 testing report and projected per IESNA TM-21-11 extrapolations.

ORDERING GUIDE

L1RTH — L — / —					
Series	Lamp type	Lumen package (lm)	Voltage (VAC)	Color temp. (K)	Options
L1RTH	L - LED	S1 S2 S3 S4	H - 347 W - 120-277	40K - 4 000 50K - 5 000	L10-PW - 4' extension for power cable only ¹ L10-DIM - 4' extension for power cable and dimming ¹ L20-PW - 14' extension for power cable only ¹ L20-DIM - 14' extension for power cable and dimming ¹ OS - Occupancy sensor ²

¹ This is additional to existing 6' of cable that comes standard on fixture. Damp location. Connector can not pass through ½" NPT conduit.

² To see available options, please consult the occupancy sensors section. Not available with L10-DIM and L20-DIM options.

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.

ACCESSORIES (order separately)

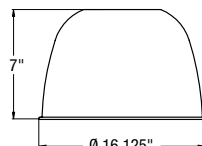
Part number	Type	Compatible with
REF668-PC-150	Clear polycarbonate reflector	S2
REF668-PC-200	Clear polycarbonate reflector	S3 & S4
REF668-AL-100	Aluminum reflector silver	S1
REF668-AL-150	Aluminum reflector silver	S2
REF668-AL-200	Aluminum reflector silver	S3 & S4
68534	Trunnion ($\pm 90^\circ$)	S1
68535	Trunnion ($\pm 90^\circ$)	S2
68536	Trunnion ($\pm 90^\circ$)	S3 & S4
HAR1045	3 pins connector IP67 for AC cable extension ²	All configurations
HAR1046	2 pins connector IP68 for dimming wires extension ²	All configurations
68537	Safety cable	S1 & S2
68538	Safety cable	S3 & S4
HAR1045-10FT	4' extension for power cable only ^{1 2}	All configurations
HAR1045-20FT	14' extension for power cable only ^{1 2}	All configurations
HAR1046-10FT	4' extension for dimming cable ^{1 2}	All configurations
HAR1046-20FT	14' extension for dimming cable ^{1 2}	All configurations
KITOSI-MC054VC-A	High frequency sensor ON-OFF 20 min 120-277 V ¹	All configurations
KIT-QSE-FO-1101	High frequency sensor ON-OFF 20 min 347 V ¹	All configurations
WGD072-100-KIT	Wireguard	S1
WGD072-150-KIT	Wireguard	S2
WGD072-200-KIT	Wireguard	S3 & S4

¹ Damp location only

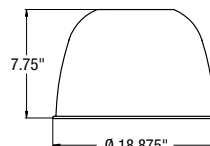
² 120-277 V only

CLEAR POLYCARBONATE REFLECTOR 90°

REF668-PC-150

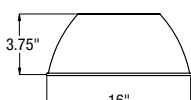


REF668-PC-200



ALUMINUM REFLECTOR 100°

REF668-AL-100



REF668-AL-150



REF668-AL-200



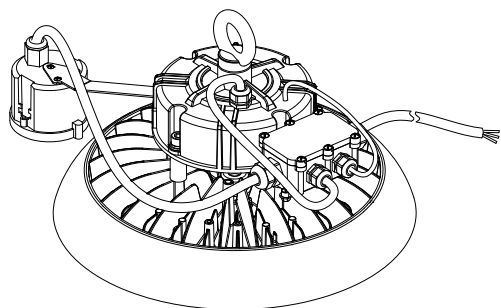
COMPATIBLE DIMMERS

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

Please consult supplier's datasheet for more details.

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.

OCCUPANCY SENSOR



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OCCUPANCY SENSOR

ON-OFF SENSORS

Detection - On at (Detection Area) % during (Hold Time) min. Off

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Daylight min level (lux)	Remote ¹	Location ² (°C)
OSE-F0-1001	External	120-277	High Frequency	50 max	100	20	Disable	OSI-RC-MH10	Wet, -35 to +50
OSE-F0-1101	External	347	High Frequency	50 max	100	20	Disable	OSI-RC-HXGY347	Wet, -35 to +50

BI-LEVEL SENSORS

Detection - On at (Detection Area) % during (Hold Time) min., then (Stand-by Dim level) %

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Stand-by Dim level (%)	Daylight min level (lux)	Remote ¹	Location ² (°C)
OSE-FB-1001	External	120-277	High Frequency	50 max	100	20	50	Disable	OSI-RC-MH10	Wet, -35 to +50

¹ To be ordered separately.

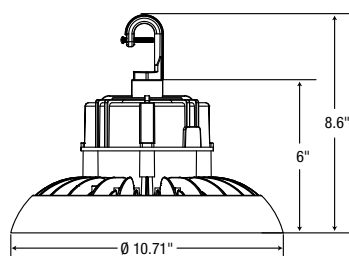
² Min and max ambient temperature of the fixture with the specific sensor. Please verify fixture temperature on the first page for compatibility with sensor.

For more settings visit

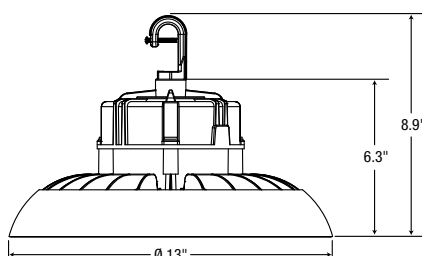
www.standardpro.com/documentation/technical-information/

DIMENSIONS

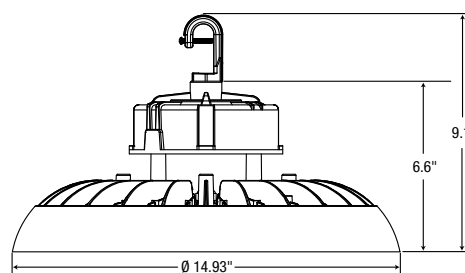
S1 – 120-277 V & 347 V



S2 – 120-277 V & 347 V

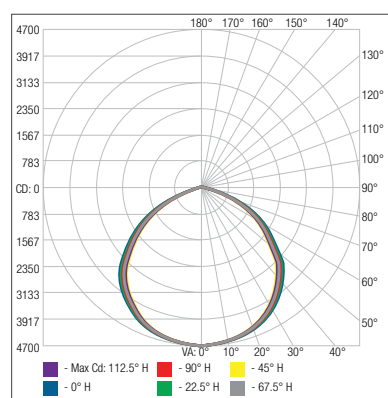


S3 & S4 – 120-277 V & 347 V

PHOTOMETRIC DATA¹

L1RTH-LS1-(W/H)/40K • 12 626.5 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	3 696.7	29.3
0-40	6 092.2	48.2
0-60	10 620.4	84.1
60-90	2 006.2	15.9
0-90	12 626.5	100

Illuminance at a distance

Center beam fc		Beam width	
1.7'	1 615	4.8'	4.8'
3.3'	429	9.4'	9.3'
5.0'	187	14.2'	14.1'
6.7'	104	19.0'	18.9'
8.3'	67.8	23.5'	23.4'
10.0'	46.7	28.3'	28.2'

Vert. spread: 109.6°
Horiz. spread: 109.4°

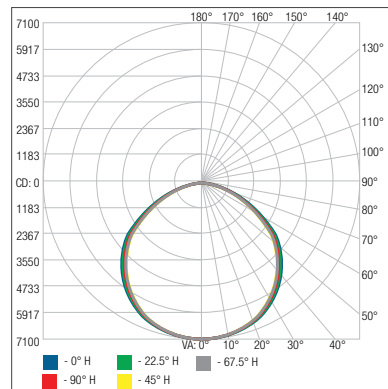
¹ Complete IES files available on our website.

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PHOTOMETRIC DATA¹

L1RTH-LS2-(W/H)/40K • 19 498.5 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	5 535.9	28.4
0-40	9 125.9	46.8
0-60	16 173.7	82.9
60-90	3 303.9	16.9
70-100	1 057.5	5.4
90-120	8.3	0
0-90	19 477.5	99.9
90-180	20.9	0.1
0-180	19 498.5	100

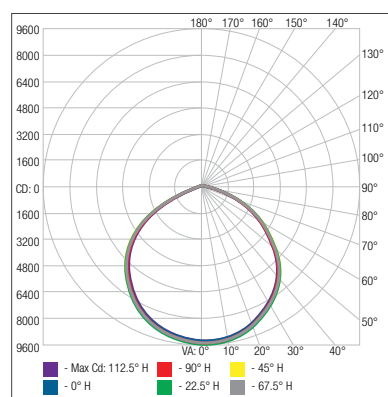
Illuminance at a distance

Center beam fc		Beam width	
1.7'	2 437	5.0'	5.1'
3.3'	647	9.7'	9.9'
5.0'	282	14.7'	15.1'
6.7'	157	19.7'	20.2'
8.3'	102	24.5'	25.0'
10.0'	70.4	29.5'	30.2'

Vert. spread: 111.7°
Horiz. spread: 112.9°

L1RTH-LS3-(W/H)/40K • 26 327.9 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	7 469.3	28.4
0-40	12 313.0	46.8
0-60	21 764.5	82.7
60-90	4 536.3	17.2
70-100	1 509.8	5.7
90-120	11.1	0
0-90	26 300.9	99.9
90-180	27.1	0.1
0-180	26 327.9	100

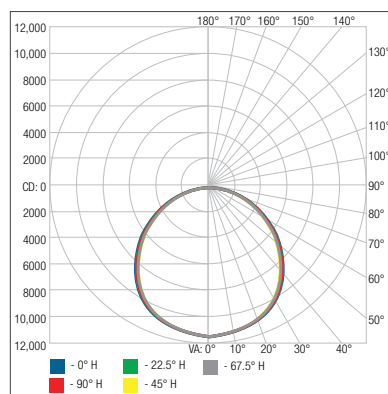
Illuminance at a distance

Center beam fc		Beam width	
1.7'	3 291	5.0'	5.1'
3.3'	873	9.7'	9.9'
5.0'	380	14.6'	15.0'
6.7'	212	19.6'	20.0'
8.3'	138	24.3'	24.8'
10.0'	95.1	29.2'	29.9'

Vert. spread: 111.3°
Horiz. spread: 112.4°

L1RTH-LS4-(W/H)/40K • 31 565.1 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	8 937.3	28.30
0-40	14 741.6	46.70
0-60	26 083.3	82.60
60-90	5 407.1	17.10
70-100	1 796.4	5.70
90-120	20.0	0.10
0-90	31 490.40	99.80
90-180	74.7	0.20
0-180	31 565.1	100

Illuminance at a distance

Center beam fc		Beam width	
1.7'	3 934	5.1'	5.1'
3.3'	1 044	9.8'	9.9'
5.0'	455	14.9'	15.0'
6.7'	253	19.9'	20.1'
8.3'	165	24.7'	24.9'
10.0'	114	29.8'	29.9'

Vert. spread: 112.2°
Horiz. spread: 112.5°

¹ Complete IES files available on our website.

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