

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 4 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.

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
- 6 ft power cable and 6 ft of 0-10V 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 120-277V, or 347V with the following onboard surge protection:

- **LS1, LS2, LS3, LS4:** 4kV standard for 120-277V and 2kV standard for 347V
- **LS5:** 6kV standard for 120-277V

• Specifications

Driver

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

Ambient temperature

-40°C to +50°C

Mounting

Hook mount standard. The hook is removable for ½' 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).

• 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

*For LS1, LS2, LS3 and LS4

Project: _____
Type: _____
Catalogue #: _____
Drawn by: _____
Date: _____



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
Wattage	99W - 303W
Lumens	12,663lm - 39,678lm
lm/W	128.04lm/W - 138.32lm/W
Colour temperature	4000K, 5000K
CRI	80 +
Weight	9.11lbs - 24.6lbs

QUICK SHIP ORDERING GUIDE

Part number	Wattage	Lumens	Voltage	Colour temperature	lm/W	PF	CRI	THD
L1RTH-LS1-W/40K	99W	12,663lm	120-277V	4000K	128lm/W	0.9	80+	15%
L1RTH-LS1-W/50K	99W	13,018 lm	120-277V	5000K	132lm/W	0.9	80+	15%
L1RTH-LS1-H/40K	99W	12,753 lm	347V	4000K	129lm/W	0.9	80+	18.9%
L1RTH-LS1-H/50K	99W	13,138lm	347V	5000K	133lm/W	0.9	80+	18.9%
L1RTH-LS2-W/40K	150W	19,478lm	120-277V	4000K	130lm/W	0.95	80+	12.24%
L1RTH-LS2-W/50K	150W	19,665lm	120-277V	5000K	131lm/W	0.95	80+	12.24%
L1RTH-LS2-H/40K	148W	20,306lm	347V	4000K	137lm/W	0.893	80+	19.68%
L1RTH-LS2-H/50K	148W	20,444lm	347V	5000K	139lm/W	0.896	80+	19.43%
L1RTH-LS3-W/40K	202W	26,320lm	120-277V	4000K	130lm/W	0.94	80+	8.32%
L1RTH-LS3-W/50K	202W	26,588lm	120-277V	5000K	131lm/W	0.94	80+	8.32%
L1RTH-LS3-H/40K	198W	26,502lm	347V	4000K	134lm/W	0.8938	80+	12.75%
L1RTH-LS3-H/50K	197W	26,960lm	347V	5000K	137lm/W	0.894	80+	15%
L1RTH-LS4-W/40K	244W	31,553lm	120-277V	4000K	129lm/W	0.92	80+	7.67%
L1RTH-LS4-W/50K	245W	32,017lm	120-277V	5000K	131lm/W	0.92	80+	7.67%
L1RTH-LS4-H/40K	238W	31,478lm	347V	4000K	132lm/W	0.883	80+	15%
L1RTH-LS4-H/50K	238W	32,151lm	347V	5000K	135lm/W	0.885	80+	15%

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

Part number	Wattage	Lumens	Voltage	Colour temperature	lm/W	PF	CRI	THD
L1RTH-LS5-W/40K	302W	39,148lm	120-277V	4000K	130lm/W	0.9	80+	15%
L1RTH-LS5-W/50K	303W	39,678lm	120-277V	5000K	131lm/W	0.9	80+	15%

Please consult factory for lead time. MOQ may apply.

ORDERING GUIDE

L1RTH	—	L	—	/	/
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Series	Lamp type	Lumen package delivered	Voltage	Colour temperature	Options
L1RTH	L - LED	S1 - 12,663 lumens (99W) S2 - 19,478 lumens (150W) S3 - 26,320 lumens (202W) S4 - 31,553 lumens (244W) S5 - 39,148 lumens (302W)*	H - 347V W - 120-277V	40K - 4000K 50K - 5000K	L10-PW - 4ft extension for power cable only*/** L10-DIM - 4ft extension for power cable and dimming*/** L20-PW - 14ft extension for power cable only*/** L20-DIM - 14ft extension for power cable and dimming*/** OS - Occupancy sensor***

* Available in 120-277V only.

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

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

Comments

OCCUPANCY SENSORS

ON-OFF SENSORS

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

Part number	Position	Voltage (V)	Technology	Height	Detection Area	Hold time	Daylight min level	Remote ¹	Location
OSE-F0-1001	External	120-277	High Frequency	50ft max	100%	20min	Disable	OSI-RC-MH01	Wet, -35°C to 55°C
OSE-F0-1101	External	347	High Frequency	50ft max	100%	20min	Disable	OSI-RC-HXGY347	Wet, -35°C to 70°C

¹ To be ordered separately

BI-LEVEL SENSORS

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

Part number	Position	Voltage (V)	Technology	Height	Detection Area	Hold time	Stand-by Dim level	Daylight min level	Remote ¹	Location
OSE-FB-1001	External	120-277	High Frequency	50ft max	100%	20min	50%	Disable	OSI-RC-MH01	Wet, -35°C to 55°C

¹ To be ordered separately

For more settings visit
stanprols.com/documentation/technical-information

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.

TM21 TABLE

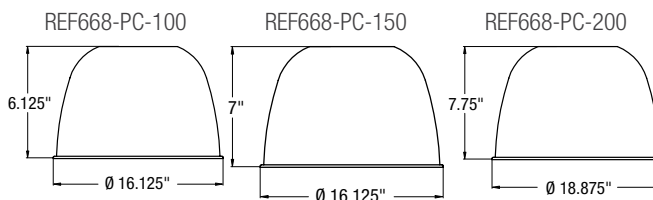
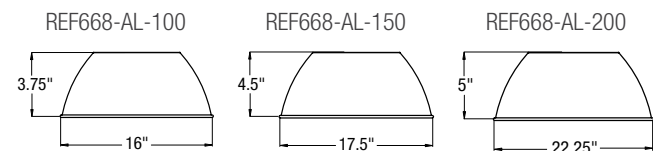
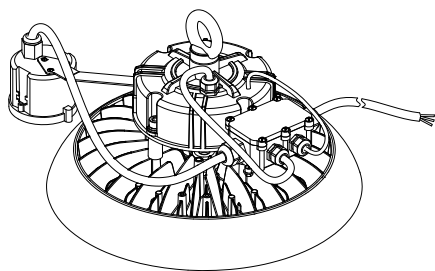
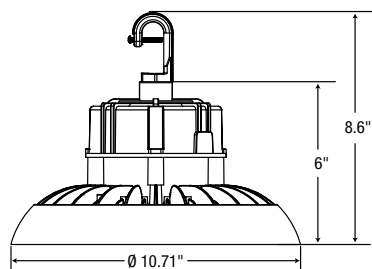
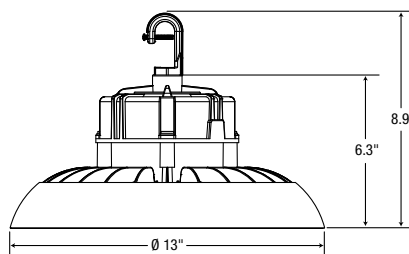
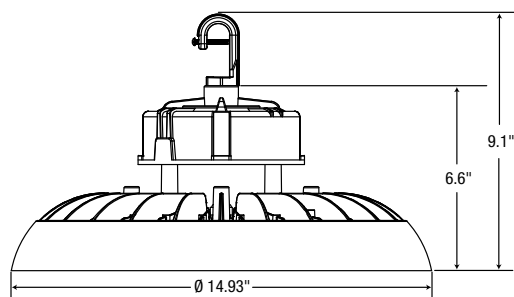
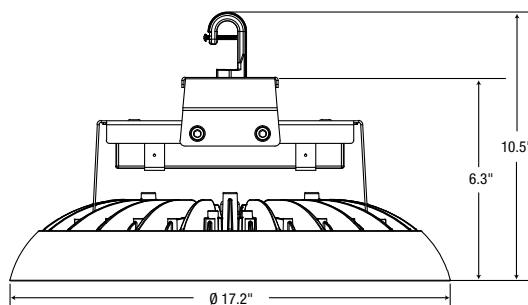
Parameters	S1		S2		S3		S4		S5
	120-277V	347V	120-277V	347V	120-277V	347V	120-277V	347V	120-277V
Time (t) at which to estimate lumen maintenance (hours)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Lumen maintenance at time (t) (%)	92.45%	92.92%	91.91%	92.88%	91.45%	92.32%	90.82%	91.76%	91.73%
Calculated L70 (hours)	222,000	238,000	207,000	236,000	196,000	219,000	182,000	204,000	203,000
Reported L70 (hours)	>54,000	>54,000	>54,000	>54,000	>54,000	>54,000	>54,000	>54,000	>54,000

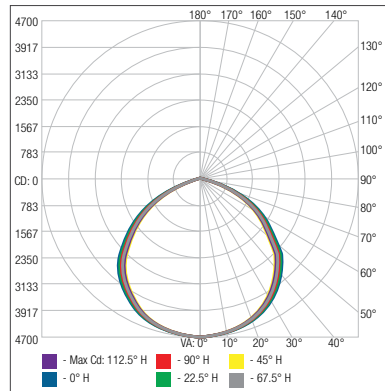
ACCESSORIES (order separately)

REF668-PC-100	Clear polycarbonate reflector - S1
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
BKT862-100	Trunnion S1 (± 90°)
BKT862-150	Trunnion S2 (± 90°)
BKT862-200	Trunnion S3 & S4 (± 90°)
HAR1045	3 pins connector IP67 for AC cable extension**
HAR1046	2 pins connector IP68 for dimming wires extension**
HAR1047	Safety cable S1 & S2
HAR1048	Safety cable S3 & S4
HAR1045-10FT	4ft extension for power cable*/**
HAR1045-20FT	14ft extension for power cable*/**
HAR1046-10FT	4ft extension for dimming*/**
HAR1046-20FT	14ft extension for dimming*/**
KITOSI-MC054VC-A	High frequency sensor ON-OFF 20 min 120-277V*
KIT-OSE-FO-1101	High frequency sensor ON-OFF 20 min 347V*

* Damp location only.

** 120-277V only.

CLEAR POLYCARBONATE REFLECTOR 90°

ALUMINUM REFLECTOR 100°

OCCUPANCY SENSOR

DIMENSIONS
S1 – 120-277V & 347V

S2 – 120-277V & 347V

S3 & S4 – 120-277V & 347V

S5 – 120-277V


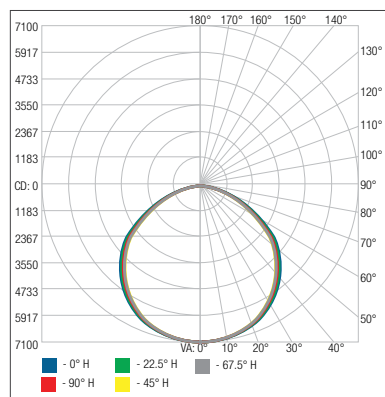
PHOTOMETRIC DATA
L1RTH-LS1-(W-H)/40K • 12,626.5lm
Polar candela distribution

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	3696.7	29.3%
0-40	6092.2	48.2%
0-60	10,620.4	84.1%
60-90	2006.2	15.9%
0-90	12,626.5	100%

Illuminance at a distance

Center beam fc	Beam width
1.7'	4.8' 4.8'
3.3'	9.4' 9.3'
5.0'	14.2' 14.1'
6.7'	19.0' 18.9'
8.3'	23.5' 23.4'
10.0'	28.3' 28.2'

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

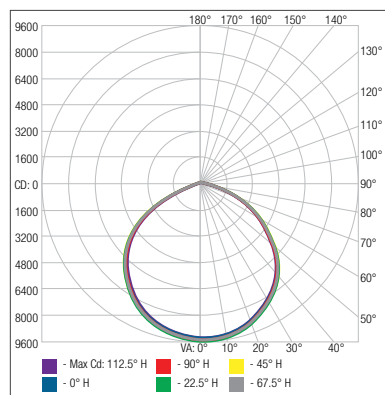
L1RTH-LS2-(W-H)/40K • 19,498.5lm
Polar candela distribution

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	5535.9	28.4%
0-40	9125.9	46.8%
0-60	16,173.7	82.9%
60-90	3303.9	16.9%
70-100	1057.5	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'	5.0' 5.1'
3.3'	9.7' 9.9'
5.0'	14.7' 15.1'
6.7'	19.7' 20.2'
8.3'	24.5' 25.0'
10.0'	29.5' 30.2'

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

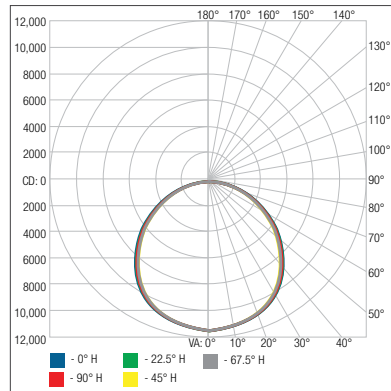
L1RTH-LS3-(W-H)/40K • 26,327.9lm
Polar candela distribution

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	7469.3	28.4%
0-40	12,313.0	46.8%
0-60	21,764.5	82.7%
60-90	4536.3	17.2%
70-100	1509.8	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'	5.0' 5.1'
3.3'	9.7' 9.9'
5.0'	14.6' 15.0'
6.7'	19.6' 20.0'
8.3'	24.3' 24.8'
10.0'	29.2' 29.9'

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

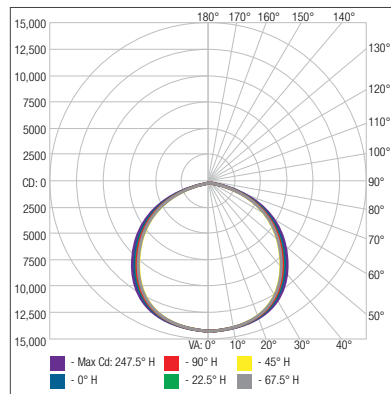
PHOTOMETRIC DATA (cont'd)
L1RTH-LS4-(W-H)/40K • 31,565.1lm
Polar candela distribution

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	8937.3	28.30%
0-40	14,741.6	46.70%
0-60	26,083.3	82.60%
60-90	5407.1	17.10%
70-100	1796.4	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'	5.1' 5.1'
3.3'	9.8' 9.9'
5.0'	14.9' 15.0'
6.7'	19.9' 20.1'
8.3'	24.7' 24.9'
10.0'	29.8' 29.9'

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

L1RTH-LS5-(W-H)/40K • 39,163.9lm
Polar candela distribution

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	11,187.2	28.6%
0-40	18,435.2	47.1%
0-60	32,273.4	82.4%
60-90	6779.3	17.3%
70-100	2303.0	5.9%
90-120	32.9	0.1%
0-90	39,052.7	99.7%
90-180	111.2	0.3%
0-180	39,163.9	100%

Illuminance at a distance

Center beam fc	Beam width
1.7'	4.9' 4.9'
3.3'	9.6' 9.6'
5.0'	14.5' 14.5'
6.7'	19.5' 19.5'
8.3'	24.1' 24.1'
10.0'	29.1' 29.0'

Vert. spread: 110.9°
Horiz. spread: 110.9°