

Project _____
Catalogue n° _____

Type _____
Date _____

AimLite

R21H

ROUND ECONOMIC AND HIGH PERFORMING LUMINAIRE INTEGRATED SENSOR

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. Meets NEMA 4X and NSF.



100-150 W



200-240 W

AVAILABLE REFLECTORS



ALUMINUM REFLECTOR



CLEAR PC REFLECTOR

FEATURES & SPECIFICATIONS

CONSTRUCTION

Physical Characteristics

- Pure light aluminum shell provides optimal heat dissipation and high lumen efficacy
- Clear polycarbonate lens over LEDs provides a high light efficacy. Standard 90° beam angle
- 10' power cable included in all configurations

Mounting








- Hook mount standard. The hook is removable for 1/2" NPT conduit mounting. For additional security, use a safety cable accessory (not included). Trunnion with pivot range ($\pm 90^\circ$) is also available for yoke bracket surface mounting (see accessories below)

PERFORMANCE DATA

- Available in both 4 000 and 5 000 K single color temperatures
- 80+ CRI for true color accuracy
- Electrical Ratings: 120-277 V
- Estimated life of over 54 000 hours to L70
- 0-10 V dimming driver. Dimming cable included with this luminaire
- 4 kV surge protection
- Operating temperature: -40 °C to +50 °C (-40 °F to +122 °F)

COMPLIANCE

- cULus certified for wet locations
- Meets NSF requirements (Splash Zone and Non Food Zone)
- Meets requirements of ICES-005 (A)
- Meets IP65 /NEMA 4X

OVERVIEW			
LIGHT SOURCE	LED	EFFICACY (LM/W)	133-154
WATTS (W)	100, 151, 202, 243	COLOR TEMPERATURE (K)	4 000, 5 000
LUMEN OUTPUT (LM)	13 465-37 376	CRI	80+
<div></div>			

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

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.

QUICK SHIP ORDERING GUIDE



SINGLE CCT AND SINGLE POWER

PART NUMBER	DLC UNIQUE ID	WATTS [W]	VOLTS [V AC]	COLOR TEMP. [K] ¹	LUMEN OUTPUT [LM] ²	EFFICACY [LM/W]	CRI	LIFE L70 [HRS] ³	TESTED HOURS LM-80 [HRS] ³	BEAM ANGLE [°]	POWER FACTOR	THD [%]
R21H-LA1-2/40K	PLXGKLS4C0QN	100	120-277	4 000	13 465	135	80+	> 54 000	9 000	90°	> 0.9	< 15
R21H-LA2-2/40K	PLPHYTZKX8HH	151	120-277	4 000	20 315	135	80+	> 54 000	9 000	90°	> 0.9	< 15
R21H-LA2-2/50K	PLAA5IAML61Y	151	120-277	5 000	20 487	136	80+	> 54 000	9 000	90°	> 0.9	< 15
R21H-LA3-2/40K	PL6KPWGDMLL	202	120-277	4 000	27 069	134	80+	> 54 000	9 000	90°	> 0.9	< 15
R21H-LA5-2/50K	PLEEG8044HVW	243	120-277	5 000	37 376	154	80+	> 54 000	9 000	90°	> 0.9	< 15

¹ Typical color temperature range: +/- 5 %.

² Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

³ Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations.

ACCESSORIES (ORDER SEPARATELY)

PART NUMBER	TYPE	COMPATIBLE WITH
J8025	1/2 NPT MALE TO 3/4 NPT FEMALE CONDUIT ADAPTER WITH JUNCTION BOX FOR PENDANT MOUNT	ALL CONFIGURATIONS
HAR1159	1/2 NPT MALE TO 3/4 NPT FEMALE CONDUIT ADAPTER FOR PENDANT MOUNT	ALL CONFIGURATIONS
BKT844-100-BK	TRUNION 100 W - 150 W	R21H-LA1-2/40K, R21H-LA2-2/40K, R21H-LA2-2/50K
BKT844-200-BK	TRUNION 200 W - 240 W	R21H-LA3-2/40K, R21H-LA5-2/50K
REF694-AL-100	ALUMINIUM REFLECTOR 100 W - 150 W	R21H-LA1-2/40K, R21H-LA2-2/40K, R21H-LA2-2/50K
REF694-AL-200	ALUMINIUM REFLECTOR 200 W - 240 W	R21H-LA3-2/40K, R21H-LA5-2/50K
REF694-PC-100	PC REFLECTOR 100 W - 150 W	R21H-LA1-2/40K, R21H-LA2-2/40K, R21H-LA2-2/50K
REF694-PC-200	PC REFLECTOR 200 W - 240 W	R21H-LA3-2/40K, R21H-LA5-2/50K
OSI-HB03DPR-A ¹	EXTERNAL PIR SENSOR KIT OSI-HB03DPR-A	ALL CONFIGURATIONS
OSI-HB03R	REMOTE CONTROL OSI-HB03R FOR MOTION SENSORS	OSI-HB03DPR-A
BI-BLD-RM30R ²	EXTERNAL RUGBY EMERGENCY BACK-UP BLD-RM30R	ALL CONFIGURATIONS
BI-RN51M	REMOTE CONTROL RUGBY EM BACK-UP RN51M	BI-BLD-RM30R

¹ To change factory settings, purchase remote OSI-HB03R (sold separately).

² To manually test in EM mode RF remote BI-RN51M can be purchased separately.

COMPATIBLE DIMMERS¹

BRAND	MODEL NUMBER
LUTRON	NTSTV-DV-AL, NFTV-IV, DVTV-WH
LEVITON	DS710-10Z, IP710-DLZ
LEGRAND	RH4FBL3PW

DIMMING RANGE: 10%-100%

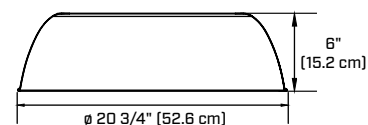
¹ This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Some dimmers may require more than one product for stable operation. AimLite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

ALUMINUM REFLECTOR SILVER

REF694-AL-100

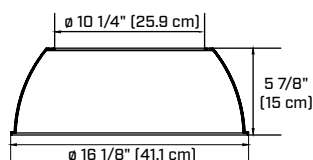


REF694-AL-200

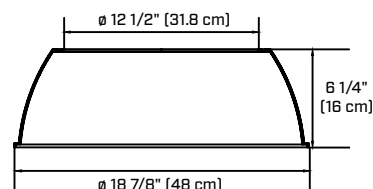


CLEAR POLYCARBONATE REFLECTOR

REF694-PC-100



REF694-PC-200



OCCUPANCY SENSORS

BI-LEVEL SENSORS

Detection - ON at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] %

PART NO	POSITION	VOLTS [V AC]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	HOLD TIME [MIN.]	STAND-BY DIM LEVEL [%]	STAND-BY PERIOD [MIN]	DAYLIGHT MIN LEVEL [LUX]	REMOTE*	LOCATION**
OSI-HB03DPR-A	EXTERNAL	120-347 [12 VDC]	PIR	40 [MAX]	100	10S, 1MIN, 10MIN, 30MIN	10, 20, 30, 50	INFINITE	10, 20, 30, 50	OSI-HB03R	DRY AND WET, -30 TO +40

Default settings: Brightness: 100%, hold time: 1min, stand-by dim: 20%, stand-by time: 1min daylight: off, sensitivity: 100%

TRI-LEVEL SENSORS

Detection - ON at [Detection Area] % during [Hold Time] min, them [Stand-by Dim level] % during [Stand-by time] min, then OFF

PART NO	POSITION	VOLTS [V AC]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	HOLD TIME [MIN.]	STAND-BY DIM LEVEL [%]	STAND-BY PERIOD [MIN]	DAYLIGHT MIN LEVEL [LUX]	REMOTE*	LOCATION**
OSI-HB03DPR-A	EXTERNAL	120-347 [12 VDC]	PIR	40 [MAX]	100	10S, 1MIN, 10MIN, 30MIN	10, 20, 30, 50	1, 30, 60	10, 30, 50, 100, DISABLE	OSI-HB03R	DRY AND WET, -30 TO +40

Default settings: Brightness: 100%, hold time: 1min, stand-by dim: 20%, stand-by time: 1min daylight: off, sensitivity: 100%

* To be ordered separately.

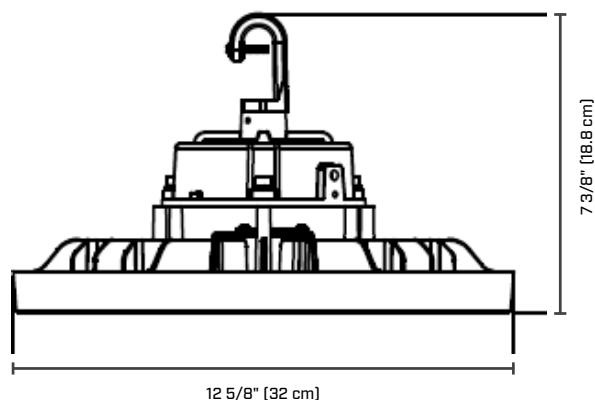
** Min and max ambient temperature of the fixture with the specific sensor. Please verify fixture temperature on the first page for compatibility with sensor.

For more settings visit

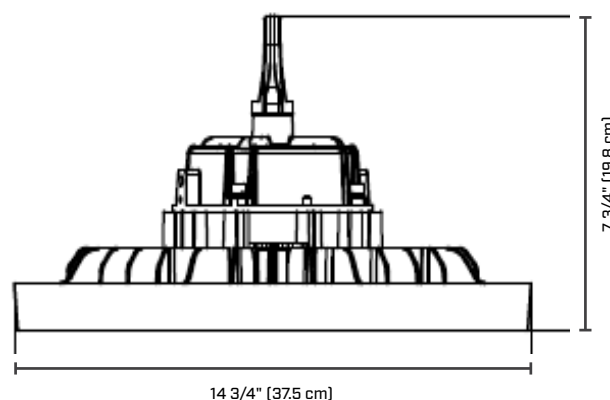
www.aimlite.com/documentation/technical-information/

DIMENSIONS

100-150 W



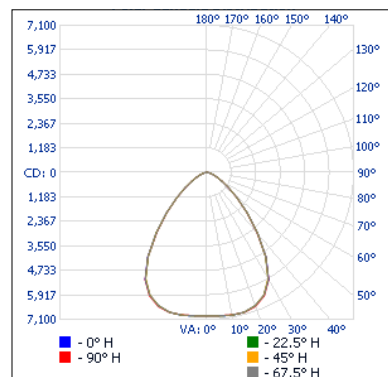
200-240 W



PHOTOMETRIC DATA¹

R21H-LA1-2/40K • 12 842.6 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	5 614.1	43.7
0-40	8 669.6	67.5
0-60	11 997.5	93.4
60-90	845.1	6.6
0-90	12 842.6	100

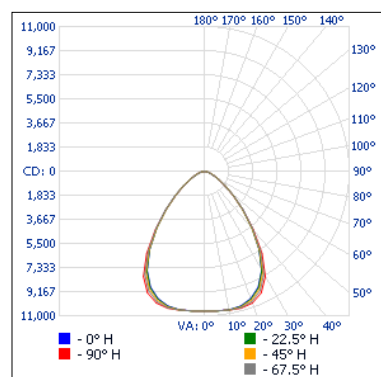
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	2 395	3.0'	2.9'
3.3'	636	5.8'	5.6'
5.0'	277	8.8'	8.5'
6.7'	154	11.9'	11.4'
8.3'	100	14.7'	14.1'
10.0'	69.2	17.7'	17.0'

■ Vert. Spread: 83.0° ■ Hor. Spread: 80.6°

R21H-LA2-2/40K • 19 355.6 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	8 540.0	44.1
0-40	13 091.0	67.6
0-60	18 081.2	93.4
60-90	1 274.4	6.6
0-90	19 355.6	100

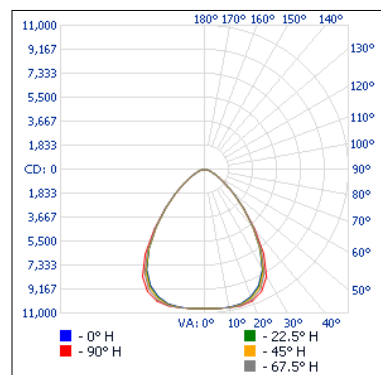
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	3 676	2.7'	3.0'
3.3'	976	5.2'	5.8'
5.0'	425	7.9'	8.7'
6.7'	237	10.6'	11.7'
8.3'	154	13.1'	14.5'
10.0'	106	15.8'	17.5'

■ Vert. Spread: 76.6° ■ Hor. Spread: 82.3°

R21H-LA2-2/50K • 19 615.6 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	8 598.9	43.8
0-40	13 247.7	67.5
0-60	18 337.0	93.5
60-90	1 278.6	6.5
0-90	19 615.6	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	3 683	2.7'	3.0'
3.3'	977	5.3'	5.9'
5.0'	426	8.0'	8.9'
6.7'	237	10.8'	11.9'
8.3'	155	13.3'	14.8'
10.0'	106	16.0'	17.8'

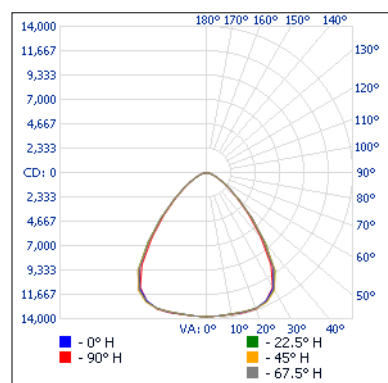
■ Vert. Spread: 77.5° ■ Hor. Spread: 83.3°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

R21H-LA3-2/40K • 27 368.6 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	11 457.2	41.9
0-40	18 295.5	66.8
0-60	25 557.6	93.4
60-90	1 811.0	6.6
0-90	27 368.6	100

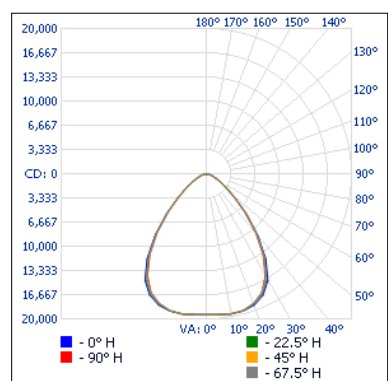
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	4 772	2.8'	3.1'
3.3'	1 266	5.4'	6.1'
5.0'	552	8.2'	9.2'
6.7'	307	11.0'	12.3'
8.3'	200	13.6'	15.2'
10.0'	138	16.4'	18.3'

■ Vert. Spread: 78.8° ■ Hor. Spread: 85.0°

R21H-LA5-2/50K • 35 433.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	15 845.3	44.2
0-40	24 201.2	68.3
0-60	33 270.5	93.9
60-90	2 163.2	6.1
0-90	35 433.7	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	6 717	2.9'	3.0'
3.3'	1 782	5.7'	5.8'
5.0'	776	8.6'	8.8'
6.7'	432	11.5'	11.7'
8.3'	282	14.3'	14.5'
10.0'	194	17.2'	17.5'

■ Vert. Spread: 81.3° ■ Hor. Spread: 82.4°

¹ Complete IES files available on our website.