

Project:	
Type:	
Catalog #:	

STANDARDS



HOUSING

- Premium powder-coat, die cast aluminum, black or white housing.

ELECTRICAL

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F).
- Universal 277-480V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- Consult your representative for Emergency back-up options available.
- Incoming AC power cord = 6'. Incoming dimming cord = 6'.
- Watertight, compression-type electrical connectors.
- Input transient surge protection = 6kV.
- Power factor > 0.90.
- Total harmonic distortion < 20%.

OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000k (warm white), 4000k (neutral white) and 5000k (cool white) color temperatures*.
- HBRSR-221816L provides a range of 15,094 to 23,100 nominal lumens*.
- HBRSR-353024L provides a range of 22,629 to 36,442 nominal lumens*.
- Screw in sensor ready. Sensor and remote control sold separately. Remote control required to change factory sensor settings (see default settings on page 2).
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90)**.
- LED color maintenance < 0.003 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Color rendering index > 80.

* Default kelvin temperature 4000k and highest lumen output.

**L70 & L90 hours are IES TM-21-11 calculated hours.



MOUNTING

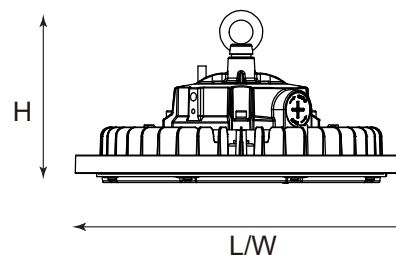
- Suspension from eyebolt (included) is standard.
- Ceiling-mounted installation using optional yoke mounting bracket, provides adjustable aiming.
- Two ways to mount luminaire to electrical conduit:
 - Attach conduit (1/2" NPS) to optional yoke mounting bracket.
 - Optional pendant snap hook (for use with 3/4" NPS).

CODE COMPLIANCE

- cULus listed for wet locations.
- DLC Premium listed.
- Complies with FCC part 15, class A.
- IP65 rated for ingress protection.
- IK09 rated for Lens impact protection.

WARRANTY

- 5 year warranty on all electronics and housing.



Model #	L (in)	W (in)	H (in)	Weight (lbs)
HBRSR-221816L-3CCT-UNC	11.02	11.02	5.92	5.53
HBRSR-353024L-3CCT-UNC	13.47	13.47	5.92	7.29

ORDERING INFORMATION

Example: HBRSR-221816L-3CCT-UNC-WHT

Series	Nominal Lumen Output (Selectable)		Kelvin Selectable	Voltage	Housing Color	
HBRSR	221816L 353024L	22,000/ 18,000/ 16,000 lm 35,000/ 30,000/ 24,000lm	3CCT 3000 / 4000 / 5000K	UNC 277-480V	BLK WHT	Black White

ACCESSORIES (ORDER SEPARATELY)**Sensor**

HD09VR-PH5-1*	=	Passive infrared sensor - maximum mounting height = 39FT.
HD09VR-MH5-1*	=	Microwave step-dimming sensor - maximum mounting height = 49FT.
HD05R	=	Remote control for HD09VR-PH5-1 & HD09VR-MH5-1(required to change factory settings).
*HD09VR series has 5-dial setting capability.		

Factory settings for Sensor : detection area =100%, hold time = 5 sec, stand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

Reflectors

HBR SR-ALREF-S	=	90° aluminum reflector - HBR SR-221816L-4K5K models
HBR SR-PCREF-S	=	90° polycarbonate reflector - HBR SR-221816L-4K5K models
HBR SR-ALREF-L	=	90° aluminum reflector - HBR SR-353024L-4K5K models
HBR SR-PCREF-L	=	90° polycarbonate reflector - HBR SR-353024L-4K5K-4K5K models

Mounting Options

HBR SR-YOKE-WHT	=	Yoke mount - all models - white
HBR SR-YOKE-BLK	=	Yoke mount - all models - black
LEDHBR SN-PSH-PRM-V2	=	Pendant snap hook - all models

LUMEN TABLES

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
HBR SR-221816L -3CCT-UNC	Lumens	15,094	16,174	15,763	17,449	19,136	18,575	20,752	23,100	22,312
	Watts	100.52	97.35	100.33	121.57	117.63	121.61	150	145.35	151.73
	Efficacy	150	166	157	144	163	153	138	159	147

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
HBR SR-353024L -3CCT-UNC	Lumens	22,629	24,134	23,477	28,018	30,888	29,864	32,917	36,442	35,027
	Watts	150.45	144.55	149.36	198.83	191.82	199.99	242.67	232.27	244.33
	Efficacy	150	167	157	141	161	149	136	157	143

ELECTRICAL DATA

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		277V	347V	480V	277V	347V	480V	277V	347V	480V
HBR SR-221816L -3CCT-UNC	3000K	0.36	0.29	0.21	0.44	0.35	0.25	0.54	0.43	0.31
	4000K	0.35	0.28	0.20	0.42	0.34	0.25	0.52	0.42	0.30
	5000K	0.36	0.29	0.21	0.44	0.35	0.25	0.55	0.44	0.32

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		277V	347V	480V	277V	347V	480V	277V	347V	480V
HBR SR-353024L -3CCT-UNC	3000K	0.54	0.43	0.31	0.72	0.57	0.41	0.88	0.70	0.51
	4000K	0.52	0.42	0.30	0.69	0.55	0.40	0.84	0.67	0.48
	5000K	0.54	0.43	0.31	0.72	0.58	0.42	0.88	0.70	0.51

PHOTOMETRICS

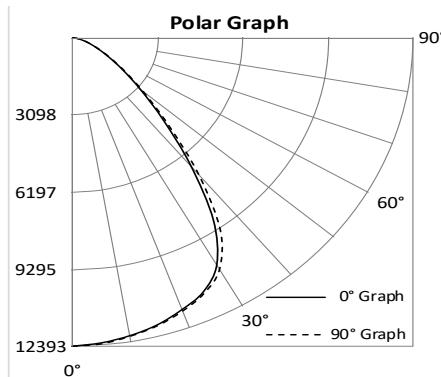
HBRSR-221816L-3CCT-UNC

Luminaire Data

Description	Round High Bay - UNC Lumen/Kelvin Selectable
Total Lumens	23,100
Input Wattage	145
Efficacy (lm/W)	159
Spacing Criterion (0-180°)	1.24
Spacing Criterion (90-270°)	1.28
Photometrics calculated at 4000k - high lumens setting	

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	4,547	19.7%
0-30°	9,744	42.2%
0-40°	15,365	66.5%
20-50°	14,548	63.0%
40-70°	6,848	29.6%
0-60°	21,164	91.6%
0-80°	22,665	98.1%
0-90°	22,771	98.6%
90-180°	329	1.4%
0-180°	23,100	100.0%



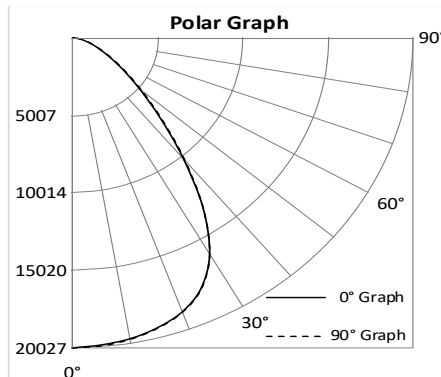
HBRSR-353024L-3CCT-UNC

Luminaire Data

Description	Round High Bay - UNC Lumen/Kelvin Selectable
Total Lumens	36,442
Input Wattage	232
Efficacy (lm/W)	157
Spacing Criterion (0-180°)	1.2
Spacing Criterion (90-270°)	1.24
Photometrics calculated at 4000k - high lumens setting	

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	7,393	20.3%
0-30°	15,566	42.7%
0-40°	23,881	65.5%
20-50°	22,211	60.9%
40-70°	10,958	30.1%
0-60°	32,998	90.5%
0-80°	35,709	98.0%
0-90°	35,928	98.6%
90-180°	514	1.4%
0-180°	36,442	100.0%



PLUGS AND CORDS

When ordering a plug, use the following suffix choices.

Example: HBRSR-221816L-3CCT-UNC-P715L

Note: Cords & plugs do not affect the ability to install sensors.

Part number suffix	Description	For use with
P715L	NEMA plug twist-lock - 277V 15A	All models
P720L	NEMA plug twist-lock - 277V 20A	
P2420L	NEMA plug twist-lock - 347V 20A	
P820L	NEMA plug twist-lock - 480V 20A	