

20-HBRSR-UNC

SENSOR READY ROUND HIGH BAY LUMEN & KELVIN SELECTABLE

PROJECT
TYPE
CATALOG #

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*.
- 20-HBRSR-221816L provides a range of 15,094 to 23,100 nominal lumens*.
- 20-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.

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).

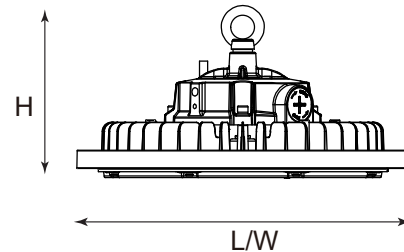
CODE COMPLIANCE

- cULus listed for wet locations.
- 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.

* Default kelvin temperature 4000k and highest lumen output.
**L70 & L90 hours are IES TM-21-11 calculated hours.



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



PRODUCT PARAMETERS

SERIES	NOMINAL LUMEN OUTPUT (Selectable)	KELVIN (Selectable)	VOLTAGE	HOUSING COLOR
20-HBRSR	221816L = 22,000 / 18,000 / 12,000 lm	3CCT 3000 / 4000 / 5000K	UNC 277-480V	BLK Black
	353024L = 35,000 / 30,000 / 24,000 lm			WHT White



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ACCESSORIES (order separately)

Sensor

- 20-HD09VR-PH5-1* = Passive infrared sensor - maximum mounting height = 39FT.
 - 20-HD09VR-MH5-1* = Microwave step-dimming sensor - maximum mounting height = 49FT.
 - 20-HD05R = Remote control for 20-HD09VR-PH5-1 & 20-HD09VR-MH5-1(required to change factory settings).
- *20-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

- 20-HBRSR-ALREF-S = 90° aluminum reflector - 20-HBRSR-221816L-4K5K models
- 20-HBRSR-PCREF-S = 90° polycarbonate reflector - 20-HBRSR-221816L-4K5K models
- 20-HBRSR-ALREF-L = 90° aluminum reflector - 20-HBRSR-353024L-4K5K models
- 20-HBRSR-PCREF-L = 90° polycarbonate reflector - 20-HBRSR-353024L-4K5K-4K5K models

Mounting Options

- 20-HBRSR-YOKE-WHT = Yoke mount - all models - white
- 20-HBRSR-YOKE-BLK = Yoke mount - all models - black
- 20-LEDHBRSN-PSH-PRM-V2 = Pendant snap hook - all models



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ELECTRICAL DATA

Series	Measurements		Low Lumens			Mid Lumens			High Lumens		
			3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
20-HBRSR-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
	Input Current (A)	277V	0.36	0.35	0.36	0.44	0.42	0.44	0.54	0.52	0.55
		347V	0.29	0.28	0.29	0.35	0.34	0.35	0.43	0.42	0.44
		480V	0.21	0.20	0.21	0.25	0.25	0.25	0.31	0.30	0.32

Series	Measurements		Low Lumens			Mid Lumens			High Lumens		
			3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
20-HBRSR-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
	Input Current (A)	277V	0.54	0.52	0.54	0.72	0.69	0.72	0.88	0.84	0.88
		347V	0.43	0.42	0.43	0.57	0.55	0.58	0.70	0.67	0.70
		480V	0.31	0.30	0.31	0.41	0.40	0.42	0.51	0.48	0.51

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PHOTOMETRIC DATA

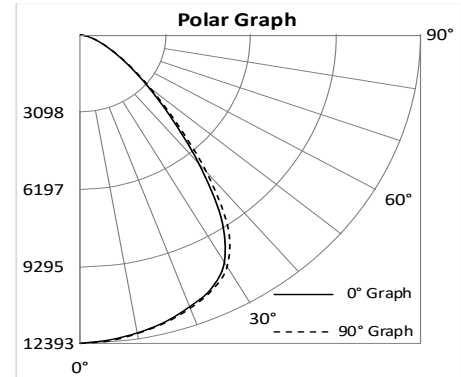
20-HBRSR-221816L-3CCT-UNC

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%



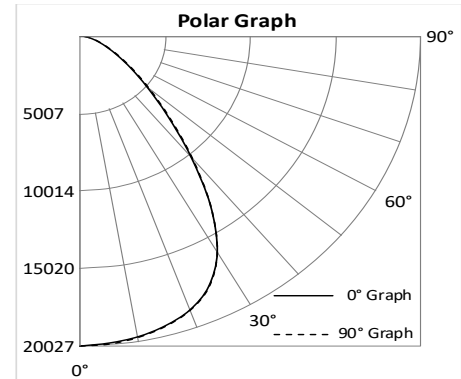
20-HBRSR-353024L-3CCT-UNC

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%



CORDS & PLUGS

When ordering a plug, use the following suffix choices.

Example: 20-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	