

20-HBRHESR

HIGH BAY ROUND HIGH EFFICIENCY & SENSOR READY

HOUSING

- Black or white powder-coated die cast aluminum housing.

ELECTRICAL

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F) .
- Universal 120-277V AC voltage (50-60Hz).
- 347-480V is optional (remote mount sold separately).
- 0-10VDC dimming driver.
- Emergency driver option available.
- Input transient surge protection = 6kV.
- Power Factor > 0.9.
- Total Harmonic Distortion < 20%.

OPTICAL SYSTEM

- Efficacy up to 200 Lumens per Watt (LPW) @CCT=4000K.
- Field selectable 3500K, 4000K, and 5000K color temperatures.*
- 20-HBRHESR-302420L-3CCT Selectable output delivers from 20,306 to 29,248 nominal lumens, with 3 settings.*
- 20-HBRHESR-474133L-3CCT Selectable output delivers from 31,830 to 46,701 nominal lumens, with 3 settings.*
- Long-life LEDs provide 204,000 hours of operation with at least 70% of initial lumen output (L70), and 61,000 hours with at least 90% of initial lumen output (L90).**
- Sensor -ready receptacle comes standard. Screw-in sensor and remote control sold separately.
- LED color maintenance <0.00018 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Polycarbonate lens.
- Color Rendering Index > 70.

MOUNTING

- Suspension from eyebolt (included) is standard.
- Ceiling-mounted installation using optional yoke mounting bracket, provides up to 180° of adjustability.
- 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

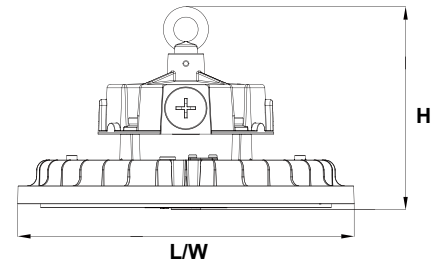
- cULus listed for wet locations.
- Complies with FCC Part 15, Class A.
- IP65 rated for ingress protection.
- IK08 rated for Lens impact protection.

WARRANTY

- 5-year warranty on all electronics and housing.

*Factory set to 4000K CCT, and highest power output.
**L70 and L90 hours are IES TM-21-11 calculated hours.

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Model	Size (inches) & Weight (lbs)			
	L (in)	W (in)	H (in)	Weight
20-HBRHESR-302420L-3CCT	10.24	10.24	4.65	5.13
20-HBRHESR-474133L-3CCT	12.2	12.2	5.24	6.06



PRODUCT PARAMETERS

SERIES	NOMINAL LUMEN OUTPUT (SELECTABLE)	KELVIN SELECTABLE
20-HBRHESR	302420L = 30,000/24,000/20,000 lm	3CCT 3500K/4000K/5000K
	474133L = 47,000/41,000/33,000 lm	



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ACCESSORIES (order separately)

Sensor:

- 22-HD09VR-PH5-1 = Passive infrared sensor - maximum mounting height = 39FT.
 22-HD09VR-MH5-1 = Microwave occupancy sensor - maximum mounting height = 49FT.
 22-HD05R = Remote control for 20-HD09VR and 20-HD07VR series (required to change factory settings)

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

Photocell:

- 22-HD07VR-A-1 = 12VDC photocell; RCA jack, factory set to Turn on at 10 lux, Turns off at 100 lux

Note: Screws into Sensor RCA receptacle that comes standard on the fixture.

Step-down Transformers:

- 20-HBSD-325W-480-277 = 347-480V step-down transformer - all models

Reflector:

- 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 models

Mounting Option:

- 20-HBRSR-YOKE-WHT = Yoke mount - all models - white
 20-HBRSR-YOKE-BLK = Yoke mount - all models - black
 20-LEDHBRN-PSH-PRM-V2 = Pendant snap hook for 3/4" NPS conduit - all models

Emergency Battery Back-up:

- 20-BLEM-INDRV-HBR30W = 30W Emergency Driver.
 20-BLEM-INDRV-HBR40W = 40W Emergency Driver.
 20-BLEM-INDRV-HBR60W = 60W Emergency Driver.

COMPATIBLE DIMMERS & CONTROLS

Manufacturer	Model Number	Style	Dimmer Range	Load Switching Capacity
Best Lighting	DWS-010V-T	Toggle	10%-100%	600W
Best Lighting	DWS-010V-D	Decora	10%-100%	600W
Best Lighting	GPDMLV-02-3	Toggle	10%-100%	600W
Best Lighting	GPDMLV-12-3	Decora	10%-100%	600W
Leviton	IP710-LFZ	Toggle	10%-100%	1200W
Lutron	DVSTV	Decora	10%-100%	450W

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ELECTRICAL DATA

Series	Measure- ments		30L			24L			20L		
			3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
20-HBRHESR-302420L-3CCT	Lumens		27,961	29,248	28,396	23,809	24,694	24,079	20,306	21,002	20,687
	Watts		158.0	152.2	157.1	129.5	125.5	128.7	107.8	105.1	107.6
	Efficacy		177	192	181	184	197	187	188	200	192
	Input Current (A)	120V	1.32	1.27	1.31	1.08	1.05	1.07	0.90	0.88	0.90
		240V	0.66	0.63	0.65	0.54	0.52	0.54	0.45	0.44	0.45
		277V	0.57	0.55	0.57	0.47	0.45	0.46	0.39	0.38	0.39

Series	Measure- ments		47L			41L			33L		
			3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
20-HBRHESR-474133L-3CCT	Lumens		44,801	46,701	45,424	39,382	40,839	39,683	31,830	32,820	32,371
	Watts		253.6	244.5	254.4	216.0	209.2	216.2	169.2	164.8	169.3
	Efficacy		177	191	179	182	195	184	188	199	191
	Input Current (A)	120V	2.11	2.04	2.12	1.80	1.74	1.80	1.41	1.37	1.41
		240V	1.06	1.02	1.06	0.90	0.87	0.90	0.71	0.69	0.71
		277V	0.92	0.88	0.92	0.78	0.76	0.78	0.61	0.59	0.61

PHOTOMETRIC DATA

20-HBRHESR-302420L-3CCT

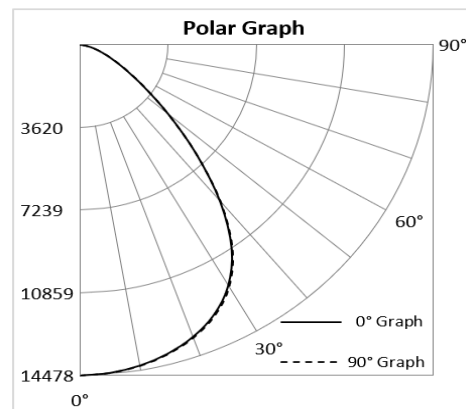
Luminaire Data

Description	High Efficacy Round High Bay Lumen/Kelvin Selectable
Total Lumens	29,248
Input Wattage	152
Efficacy (lm/W)	192
Spacing Criterion (0-180°)	1.24
Spacing Criterion (90-270°)	1.26

Photometrics calculated at 4000K and high lumen output.

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	5,342	18.3%
0-30°	11,397	39.0%
0-40°	18,274	62.5%
20-50°	18,374	62.8%
40-70°	10,144	34.7%
0-60°	26,836	91.8%
0-80°	29,109	99.5%
0-90°	29,248	100.0%
90-180°	0	0.0%
0-180°	29,248	100.0%





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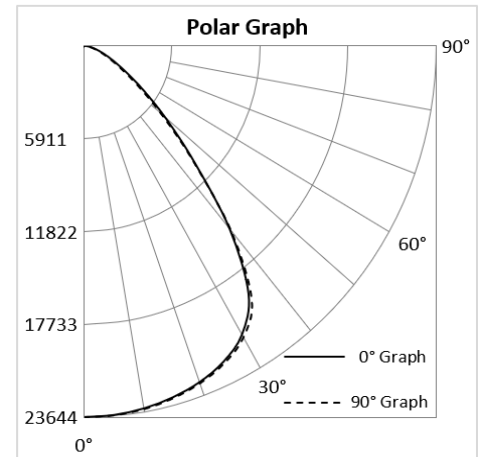
Luminaire Data

Description	High Efficacy Round High Bay Lumen/Kelvin Selectable
Total Lumens	46,701
Input Wattage	244
Efficacy (lm/W)	191
Spacing Criterion (0-180°)	1.32
Spacing Criterion (90-270°)	1.34

Photometrics calculated at
4000K and high lumen
output

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	8,788	18.8%
0-30°	18,985	40.7%
0-40°	30,790	65.9%
20-50°	30,218	64.7%
40-70°	14,676	31.4%
0-60°	43,334	92.8%
0-80°	46,401	99.4%
0-90°	46,633	99.9%
90-180°	68	0.1%
0-180°	46,701	100.0%



BRANCH WIRING OPTIONS

When ordering a plug, use the following suffix choices.

Example: 20-HBRHESR-302420L-3CCT-P515

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

Part number suffix	Description	For use with
P515	NEMA plug - 125V 15A	ALL MODELS
P520	NEMA plug - 125V 20A	
P515L	NEMA plug twist-lock - 125V 15A	
P520L	NEMA plug twist-lock - 125V 20A	
P615	NEMA plug - 250V 15A	
P620	NEMA plug - 250V 20A	
P615L	NEMA plug twist-lock - 250V 15A	
P620L	NEMA plug twist-lock - 250V 20A	
P715	NEMA plug - 277V 15A	
P715L	NEMA plug twist-lock - 277V 15A	
P720L	NEMA plug twist-lock - 277V 20A	

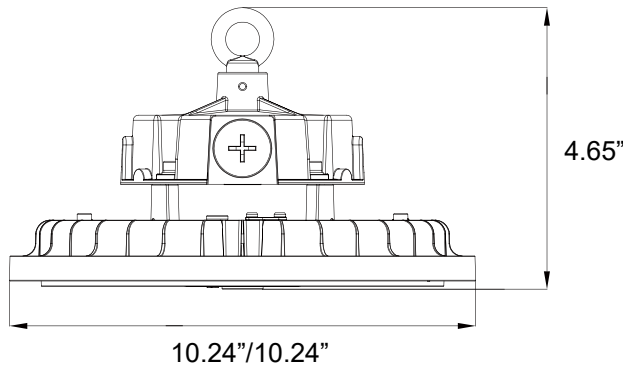
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DIMENSIONAL DRAWINGS

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