CONTRACTOR LIGHTING & SUPPLY
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PROJECT
TYPE
CATALOG #

20-HBR HAZ LOC

HIGH BAY ROUND HAZARDOUS LOCATION

HOUSING
- Gray powder-coated die-cast aluminum housing.

ELECTRICAL
- 120-277V AC (50-60Hz).
- 0-10VDC dimming driver.
- Watertight, compression-type electrical connectors.
- Input transient surge protection up to 6kV*.
- Power factor > 0.90.
- Total harmonic distortion (THD) < 20%.

OPTICAL SYSTEM
- Efficacy up to 144 lumens per watt.
- 5000K color temperature.
- 20-EX-100WBD50D120AO2V10 delivers 13,903 nominal lumens.
- 20-EX-150WB3D50D120AO2V15 delivers 22,083 nominal lumens.
- 20-EX-200WB3D50D120EO2X24 delivers 27,263nominal lumens.
- Long-life LEDs provide 173,000 hours of operation with at least 70% of initial lumen output (L70), and 52,000 hours with at least 90% of initial lumen output (L90).*
- LED color maintenance < 0.0009 chromaticity shift (Δu'v') over the initial 6,000 hours of operation.
- Clear flat glass lens.
- Color Rendering Index (CRI) > 80.

MOUNTING
- Ceiling-mounted installation using the included yoke mounting bracket provides up to 180° of adjustability.

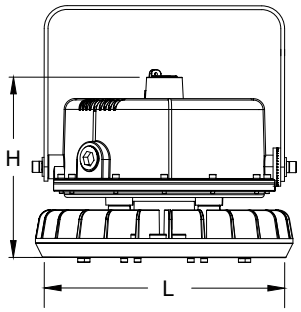
CODE COMPLIANCE
- UL 844 Hazardous Locations:
  Class I, Division 2, Groups A, B, C, D.
  *See T-Code table on page 3.
- UL 1598 Wet Locations.
- UL 1598A Marine Outside Type.
- Complies with FCC Part 15, Class A.
- IP66 rated for ingress protection.
- IK08 rated for impact protection.

WARRANTY
- 5-year warranty on all electronics and housing.

*L70 uses IES TM-21-11 calculated hours.
*EX-100WBD50D120AO2V10 and EX-150WB3D50D120AO2V15=6kV
*EX-200WB3D50D120AO2X24=4kV







Model	Size (inches) & Weight (lbs)		
	L (in)	H (in)	Weight
20-EX-100WBD50D120AO2V10	10.63	7.44	11.90
20-EX-150WB3D50D120AO2V15	14.76	7.83	24.03
20-EX-200WB3D50D120EO2X24			

PRODUCT PARAMETERS

MODEL	NOMINAL LUMEN OUTPUT	KELVIN
20-EX-100WBD50D120AO2V10	14,000 lm	5000K
20-EX-150WB3D50D120AO2V15	22,000 lm	
20-EX-200WB3D50D120EO2X24	27,000 lm	

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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

LUMEN TABLES & ELECTRICAL DATA

Series	Measurements		14L
			5000K
20-EX-100WBD-50D120AO2V10	Lumens		13,903
	Watts		100.9
	Efficacy		138
	Input Current (A)	120V	0.84
		240V	0.42
		277V	0.36

Series	Measurements		22L
			5000K
20-EX-150WB3D-50D120AO2V15	Lumens		22,083
	Watts		153.0
	Efficacy		144
	Input Current (A)	120V	1.27
		240V	0.64
		277V	0.55

Series	Measurements		27L
			5000K
20-EX-200WB3D-50D120AO2X24	Lumens		27,263
	Watts		198.2
	Efficacy		138
	Input Current (A)	120V	1.65
		240V	0.83
		277V	0.72

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T-CODES

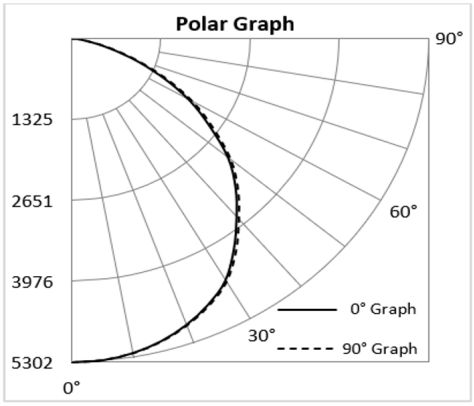
Model Number	T-Code/Ambient Temp
20-EX-100WBD50D120AO2V10	T6: -40°C to +45°C T5: -40°C to +55°C
20-EX-150WB3D50D120AO2V15	T6: -40°C to +50°C T5: -40°C to +55°C
20-EX-200WB3D50D120AO2X24	T6: -40°C to +45°C T5: -40°C to +50°C

PHOTOMETRIC DATA

20-EX-100WBD50D120AO2V10

Luminaire Data	
Description	Round High Bay 14,000 Lumens/5K
Total Lumens	13,903
Input Wattage	101
Efficacy (lm/W)	138
Spacing Criterion (0-180°)	1.28
Spacing Criterion (90-270°)	1.3

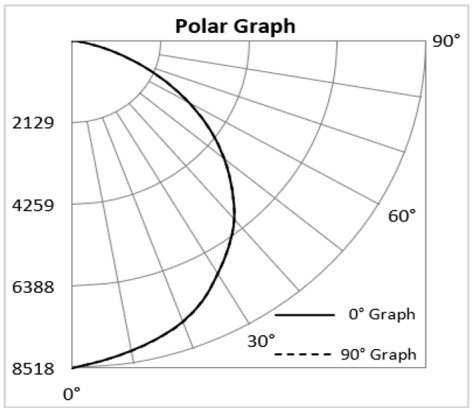
Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20°	1,953	14.0%
0-30°	4,174	30.0%
0-40°	6,831	49.1%
20-50°	7,560	54.4%
40-70°	6,455	46.4%
0-60°	11,797	84.9%
0-80°	13,834	99.5%
0-90°	13,888	99.9%
90-180°	15	0.1%
0-180°	13,903	100.0%



20-EX-150WB3D50D120AO2V15

Luminaire Data	
Description	Round High Bay 22,000 Lumens, 5K
Total Lumens	22,083
Input Wattage	153
Efficacy (lm/W)	144
Spacing Criterion (0-180°)	1.24
Spacing Criterion (90-270°)	1.24

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20°	3,062	13.9%
0-30°	6,502	29.4%
0-40°	10,617	48.1%
20-50°	11,764	53.3%
40-70°	10,289	46.6%
0-60°	18,456	83.6%
0-80°	21,924	99.3%
0-90°	22,060	99.9%
90-180°	23	0.1%
0-180°	22,083	100.0%



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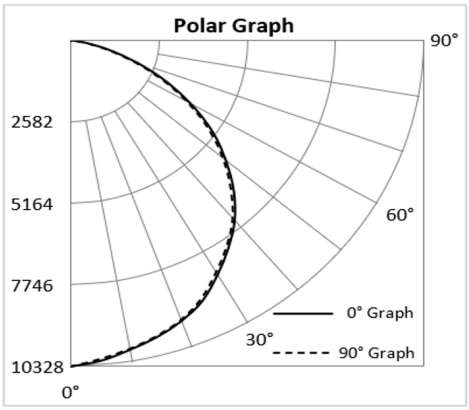
20-EX-200WB3D50D120AO2X24

Luminaire Data

Description	Round High Bay 27,000 Lumens, 5K
Total Lumens	27,263
Input Wattage	198
Efficacy (lm/W)	138
Spacing Criterion (0-180°)	1.24
Spacing Criterion (90-270°)	1.24

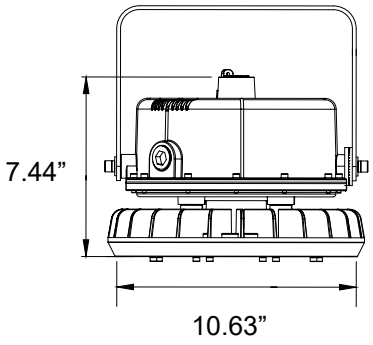
Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	3,717	13.6%
0-30°	7,908	29.0%
0-40°	12,944	47.5%
20-50°	14,413	52.9%
40-70°	12,787	46.9%
0-60°	22,651	83.1%
0-80°	27,045	99.2%
0-90°	27,230	99.9%
90-180°	33	0.1%
0-180°	27,263	100.0%



DIMENSIONAL DRAWINGS

20-EX-100WBD50D120AO2V10



20-EX-150WB3D50D120AO2V15
20-EX-200WB3D50D120AO2X24

