CONTRACTOR LIGHTING & SUPPLY
WWW.CONTRACTORLIGHTING.COM

PROJECT
TYPE
CATALOG #

20-HBLHESR

LED LINEAR HIGH BAY HIGH EFFICIENCY & SENSOR READY

HOUSING
- White powder-coated die cast aluminum housing.

ELECTRICAL
- High ambient operating temperature up to 60°C.
- Universal 120-277V AC voltage (50-60Hz).
- Internal 277-480VAC driver option available.
- 0-10VDC dimming driver.
- Emergency driver options 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-HBLHESR-302420L-3CCT Selectable output delivers from 19,431 to 29,056 nominal lumens, with 3 settings.*
- 20-HBLHESR-453730L-3CCT Selectable output delivers from 29,167 to 45,067 nominal lumens, with 3 settings.*
- 20-HBLHESR-575043L-3CCT Selectable output delivers from 42,286 to 56,719 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 < 0.0008 chromaticity shift (Δu'v') over the initial 6,000 hours of operation.
- Polycarbonate lens.
- Color Rendering Index > 70.

MOUNTING
- Chain-mount kit (includes v-hooks , 1-meter long chain) are standard.
- Optional surface mounting kit provides attachment to solid surfaces*.
- Optional pendant mounting kit provides attachment to 1/2" rigid conduit.

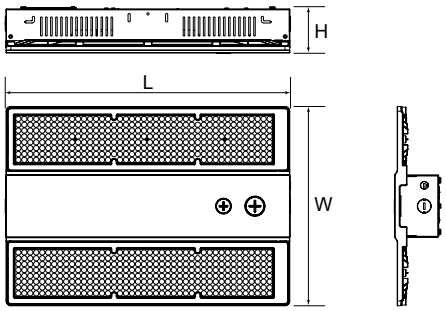
* Surface mount kit and Pendant mount kit are not compatible with the UNC version, nor the on-board, factory installed EM driver options.

CODE COMPLIANCE
- cULus listed for damp locations.
- Complies with FCC Part 15, Class A.

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.





Model	Size (inches) & Weight (lbs)			
	L (in)	W (in)	H (in)	Weight
20-HBLHESR-302420L-3CCT	14.96	9.84	2.91	5.57
20-HBLHESR-453730L-3CCT	17.72	12.44	2.91	8.13
20-HBLHESR-575043L-3CCT	20.47	14.41	3.23	9.72

UL CERTIFIED · FC · 6kV SURGE PROTECTION · DAMP

PRODUCT PARAMETERS

SERIES	NOMINAL LUMEN OUTPUT (SELECTABLE)	KELVIN SELECTABLE	INPUT VOLTAGE	EMERGENCY DRIVER
20-HBLHESR	302420L = 30,000/24,000/20,000 lm	3CCT 3500K/4000K/5000K	Blank 120-277V UNC 277-480V	Blank No Emergency Driver EM12 12W Emergency Driver EM25 25W Emergency Driver
	453730L = 45,000/37,000/30,000 lm			
	575043L = 57,000/50,000/43,000 lm			

CONTRACTOR LIGHTING & SUPPLY
WWW.CONTRACTORLIGHTING.COM

PROJECT
TYPE
CATALOG #

20-HBLHESR

LED LINEAR HIGH BAY HIGH EFFICIENCY & SENSOR READY

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 22-HD09VR series (required to change factory settings).
22-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

Mounting Options:

20-FHBSR-SMK* = SURFACE MOUNT KIT FOR FHBSR & HBLHESR - ALL MODELS

20-FHBSR-PMK* = PENDANT MOUNT KIT FOR FHBSR & HBLHESR - ALL MODELS

20-CMK-3 = CABLE MOUNT KIT 3 METER - ALL MODELS

20-CMK-5 = CABLE MOUNT KIT 5 METER - ALL MODELS

*SMK and PMK are not compatible with the on-board factory installed EM driver options.

Remote Mount EM Drivers:

20-BLEM-CP-UNC-HV12W = 12W Emergency Driver - Only for use with 20-HBLHESR-302420L-3CCT-UNC

20-BLEM-CP-13C = 13W Emergency Driver with Conduit - Only for use in 120-277V applications

20-BLEM-INDRV-HV25W = 25W Emergency Driver - Only for use in 120-277V applications

20-BLEM-INDRV-HV40W = 40W Emergency Driver - Only for use in 120-277V applications

COMPATIBLE EMERGENCY DRIVERS-INSTALLED

Emergency Driver Part Number	EM25		EM12	
Model	Watts	EM Lumens	Watts	EM Lumens
20-HBLHESR-302420L-3CCT	25	4775	-	-
20-HBLHESR-453730L-3CCT	25	4750	-	-
20-HBLHESR-575043L-3CCT	25	4825	-	-
20-HBLHESR-302420L-3CCT-UNC	-	-	12	2340
20-HBLHESR-453730L-3CCT-UNC	25	4825	-	-
20-HBLHESR-575043L-3CCT-UNC	25	4875	-	-

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

CONTRACTOR LIGHTING & SUPPLY
WWW.CONTRACTORLIGHTING.COM

PROJECT
TYPE
CATALOG #

20-HBLHESR

LED LINEAR HIGH BAY HIGH EFFICIENCY & SENSOR READY

LUMEN TABLES & ELECTRICAL DATA

Series	Measure-ments		30L			24L			20L		
			3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
20-HBLHESR-302420L-3CCT	Lumens		27,797	29,056	28,177	22,878	23,661	23,135	19,431	20,001	19,837
	Watts		158.1	151.8	157.9	124.5	120.3	124.2	103.7	100.7	103.7
	Efficacy		176	191	178	184	197	186	187	199	191
	Input Current (A)	120V	1.32	1.27	1.32	1.04	1.00	1.04	0.86	0.84	0.86
		240V	0.66	0.63	0.66	0.52	0.50	0.52	0.43	0.42	0.43
		277V	0.57	0.55	0.57	0.45	0.43	0.45	0.37	0.36	0.37

Series	Measure-ments		45L			37L			30L		
			3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
20-HBLHESR-453730L-3CCT	Lumens		42,945	45,067	43,591	35,832	37,223	36,273	29,167	30,171	29,835
	Watts		247.2	237.2	246.9	198.1	191.3	197.7	157.1	152.5	157.1
	Efficacy		174	190	177	181	195	183	186	198	190
	Input Current (A)	120V	2.06	1.98	2.06	1.65	1.59	1.65	1.31	1.27	1.31
		240V	1.03	0.99	1.03	0.83	0.80	0.82	0.65	0.64	0.65
		277V	0.89	0.86	0.89	0.72	0.69	0.71	0.57	0.55	0.57

Series	Measure-ments		57L			50L			43L		
			3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
20-HBLHESR-575043L-3CCT	Lumens		54,916	56,719	55,163	50,521	51,975	50,573	42,286	43,242	42,512
	Watts		306.6	293.4	304.1	277.0	266.0	274.5	225.2	217.9	223.9
	Efficacy		179	193	181	182	195	184	188	198	190
	Input Current (A)	120V	2.56	2.45	2.53	2.31	2.22	2.29	1.88	1.82	1.87
		240V	1.28	1.22	1.27	1.15	1.11	1.14	0.94	0.91	0.93
		277V	1.11	1.06	1.10	1.00	0.96	0.99	0.81	0.79	0.81

CONTRACTOR LIGHTING & SUPPLY
WWW.CONTRACTORLIGHTING.COM

PROJECT
TYPE
CATALOG #

20-HBLHESR

LED LINEAR HIGH BAY HIGH EFFICIENCY & SENSOR READY

LUMEN TABLES & ELECTRICAL DATA

Series	Measure-ments		30L			24L			20L		
			3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
20-HBLHESR-302420L-3CCT-UNC	Lumens		28,177	29,564	28,489	23,161	23,993	23,413	19,711	20,347	20,146
	Watts		156.9	152.0	156.7	125.0	121.2	124.8	104.8	102.3	104.8
	Efficacy		180	195	182	185	198	188	188	199	192
	Input Current (A)	277V	0.57	0.55	0.57	0.45	0.44	0.45	0.38	0.37	0.38
		347V	0.45	0.44	0.45	0.36	0.35	0.36	0.30	0.29	0.30
		480V	0.33	0.32	0.33	0.26	0.25	0.26	0.22	0.21	0.22

Series	Measure-ments		45L			37L			30L		
			3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
20-HBLHESR-453730L-3CCT-UNC	Lumens		42,917	45,167	43,632	35,695	37,125	36,117	28,863	29,879	29,485
	Watts		243.2	234.4	243.2	195.4	189.0	194.8	154.0	150.5	154.4
	Efficacy		176	193	179	183	196	185	187	198	191
	Input Current (A)	277V	0.88	0.85	0.88	0.71	0.68	0.70	0.56	0.54	0.56
		347V	0.70	0.68	0.70	0.56	0.54	0.56	0.44	0.43	0.44
		480V	0.51	0.49	0.51	0.41	0.39	0.41	0.32	0.31	0.32

Series	Measure-ments		57L			50L			43L		
			3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
20-HBLHESR-575043L-3CCT-UNC	Lumens		54,822	56,752	55,148	50,398	51,866	50,452	42,272	43,280	42,554
	Watts		303.4	291.5	301.3	273.8	263.8	271.9	224.6	217.1	222.9
	Efficacy		181	195	183	184	197	186	188	199	191
	Input Current (A)	277V	1.10	1.05	1.09	0.99	0.95	0.98	0.81	0.78	0.80
		347V	0.87	0.84	0.87	0.79	0.76	0.78	0.65	0.63	0.64
		480V	0.63	0.61	0.63	0.57	0.55	0.57	0.47	0.45	0.46

CONTRACTOR LIGHTING & SUPPLY
WWW.CONTRACTORLIGHTING.COM

PROJECT
TYPE
CATALOG #

20-HBLHESR

LED LINEAR HIGH BAY HIGH EFFICIENCY & SENSOR READY

PHOTOMETRIC DATA

20-HBLHESR-302420L-3CCT

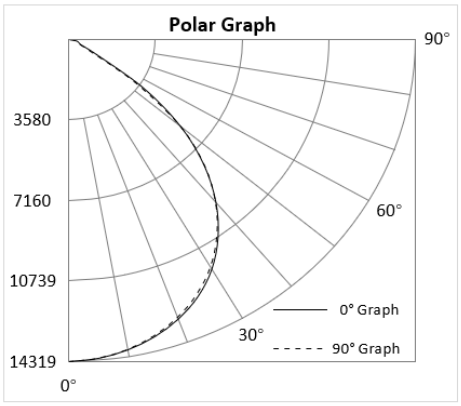
Luminaire Data

Description	High Efficacy Linear High Bay Lumen/Kelvin Selectable
Total Lumens	29,056
Input Wattage	152
Efficacy (lm/W)	191
Spacing Criterion (0-180°)	1.24
Spacing Criterion (90-270°)	1.22

Photometrics generated @4000K and highest lumen output.

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	5,227	18.0%
0-30°	11,064	38.1%
0-40°	17,841	61.4%
20-50°	18,831	64.8%
40-70°	10,761	37.0%
0-60°	27,745	95.5%
0-80°	28,951	99.6%
0-90°	29,056	100.0%
90-180°	0	0.0%
0-180°	29,056	100.0%



20-HBLHESR-453730L-3CCT

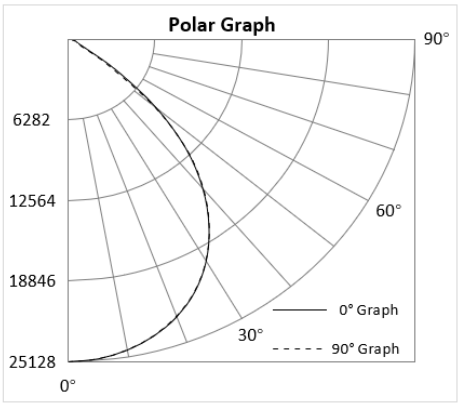
Luminaire Data

Description	High Efficacy Linear High Bay Lumen/Kelvin Selectable
Total Lumens	45,067
Input Wattage	237
Efficacy (lm/W)	190
Spacing Criterion (0-180°)	1.2
Spacing Criterion (90-270°)	1.2

Photometrics generated @4000K and highest lumen output.

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	9,120	20.2%
0-30°	19,068	42.3%
0-40°	30,115	66.8%
20-50°	30,263	67.2%
40-70°	14,272	31.7%
0-60°	43,408	96.3%
0-80°	44,888	99.6%
0-90°	45,004	99.9%
90-180°	63	0.1%
0-180°	45,067	100.0%



20-HBLHESR-575043L-3CCT

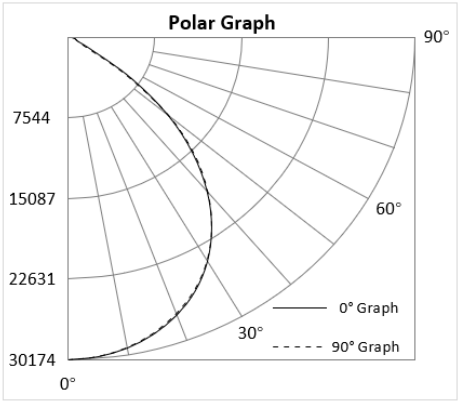
Luminaire Data

Description	High Efficacy Linear High Bay Lumen/Kelvin Selectable
Total Lumens	56,719
Input Wattage	293
Efficacy (lm/W)	193
Spacing Criterion (0-180°)	1.2
Spacing Criterion (90-270°)	1.2

Photometrics generated @4000k and highest lumen output.

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	10,967	19.3%
0-30°	23,012	40.6%
0-40°	36,628	64.6%
20-50°	37,621	66.3%
40-70°	19,265	34.0%
0-60°	54,712	96.5%
0-80°	56,487	99.6%
0-90°	56,642	99.9%
90-180°	77	0.1%
0-180°	56,719	100.0%



CONTRACTOR LIGHTING & SUPPLY
WWW.CONTRACTORLIGHTING.COM

PROJECT
TYPE
CATALOG #

20-HBLHESR

LED LINEAR HIGH BAY HIGH EFFICIENCY & SENSOR READY

BRANCH WIRING OPTIONS

When ordering a plug, use one of the following suffixes.
Example: 20-HBLHESR-302420L-3CCT-10P515
Note: Cords & Plugs do not affect the ability to install sensors.

Part number suffix	Description	For use with
6C3	6' cord - 3 conductor (black/white/green)	Standard & UNC
6C4	6' cord - 4 conductor (black/white/green/red)	EM driver
6C5	6' cord - 5 conductor (black/white/green/purple/pink)	Dimming (standard & UNC)
6C6	6' cord - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
10C3	10' cord - 3 conductor (black/white/green)	Standard & UNC
10C4	10' cord - 4 conductor (black/white/green/red)	EM driver
10C5	10' cord - 5 conductor (black/white/green/purple/pink)	Dimming (standard & UNC)
10C6	10' cord - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
15C3	15' cord - 3 conductor (black/white/green)	Standard & UNC
15C4	15' cord - 4 conductor (black/white/green/red)	EM driver
15C5	15' cord - 5 conductor (black/white/green/purple/pink)	Dimming (standard & UNC)
15C6	15' cord - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
6W3	6' whip - 3 conductor (black/white/green)	Standard & UNC
6W4	6' whip - 4 conductor (black/white/green/red)	EM driver
6W5	6' whip - 5 conductor (black/white/green/purple/pink)	Dimming (standard & UNC)
6W6	6' whip - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
6P515	6' cord - 3 conductor (black/white/green) - NEMA 5-15 plug (120V/15A)	Standard luminaire
6P615	6' cord - 3 conductor (black/white/green) - NEMA 6-15 plug (240V/15A)	Standard luminaire
6P715	6' cord - 3 conductor (black/white/green) - NEMA 7-15 plug (277V/15A)	Standard luminaire
6P520	6' cord - 3 conductor (black/white/green) - NEMA 5-20 plug (120V/20A)	Standard luminaire
6P620	6' cord - 3 conductor (black/white/green) - NEMA 6-20 plug (277V/20A)	Standard luminaire
6P515L	6' cord - 3 conductor (black/white/green) - NEMA L5-15 plug (120V/15A locking)	Standard luminaire
6P615L	6' cord - 3 conductor (black/white/green) - NEMA L6-15 plug (240V/15A locking)	Standard luminaire
6P715L	6' cord - 3 conductor (black/white/green) - NEMA L7-15 plug (277V/15A locking)	Standard luminaire
6P520L	6' cord - 3 conductor (black/white/green) - NEMA L5-20 plug (120V/20A locking)	Standard luminaire
6P620L	6' cord - 3 conductor (black/white/green) - NEMA L6-20 plug (240V/20A locking)	Standard luminaire
6P720L	6' cord - 3 conductor (black/white/green) - NEMA L7-20 plug (277V/20A locking)	Standard luminaire
6P2420L	6' cord - 3 conductor (black/white/green) - NEMA L24-20 plug (347V/20A locking)	UNC luminaire
6P820L	6' cord - 3 conductor (black/white/green) - NEMA L8-20 plug (480V/20A locking)	UNC luminaire
10P515	10' cord - 3 conductor (black/white/green) - NEMA 5-15 plug (120V/15A)	Standard luminaire
10P615	10' cord - 3 conductor (black/white/green) - NEMA 6-15 plug (240V/15A)	Standard luminaire

CONTRACTOR LIGHTING & SUPPLY
WWW.CONTRACTORLIGHTING.COM

PROJECT
TYPE
CATALOG #

20-HBLHESR

LED LINEAR HIGH BAY HIGH EFFICIENCY & SENSOR READY

Part number suffix	Description	For use with
10P715L	10' cord - 3 conductor (black/white/green) - NEMA L7-15 plug (277V/15A locking)	Standard luminaire
10P520L	10' cord - 3 conductor (black/white/green) - NEMA L5-20 plug (120V/20A locking)	Standard luminaire
10P620L	10' cord - 3 conductor (black/white/green) - NEMA L6-20 plug (240V/20A locking)	Standard luminaire
10P720L	10' cord - 3 conductor (black/white/green) - NEMA L7-20 plug (277V/20A locking)	Standard luminaire
10P2420L	10' cord - 3 conductor (black/white/green) - NEMA L24-20 plug (347V/20A locking)	UNC luminaire
10P820L	10' cord - 3 conductor (black/white/green) - NEMA L8-20 plug (480V/20A locking)	UNC luminaire
15P515	15' cord - 3 conductor (black/white/green) - NEMA 5-15 plug (120V/15A)	Standard luminaire
15P615	15' cord - 3 conductor (black/white/green) - NEMA 6-15 plug (240V/15A)	Standard luminaire
15P715	15' cord - 3 conductor (black/white/green) - NEMA 7-15 plug (277V/15A)	Standard luminaire
15P520	15' cord - 3 conductor (black/white/green) - NEMA 5-20 plug (120V/20A)	Standard luminaire
15P620	15' cord - 3 conductor (black/white/green) - NEMA 6-20 plug (277V/20A)	Standard luminaire
15P515L	15' cord - 3 conductor (black/white/green) - NEMA L5-15 plug (120V/15A locking)	Standard luminaire
15P615L	15' cord - 3 conductor (black/white/green) - NEMA L6-15 plug (240V/15A locking)	Standard luminaire
15P715L	15' cord - 3 conductor (black/white/green) - NEMA L7-15 plug (277V/15A locking)	Standard luminaire
15P520L	15' cord - 3 conductor (black/white/green) - NEMA L5-20 plug (120V/20A locking)	Standard luminaire
15P620L	15' cord - 3 conductor (black/white/green) - NEMA L6-20 plug (240V/20A locking)	Standard luminaire
15P720L	15' cord - 3 conductor (black/white/green) - NEMA L7-20 plug (277V/20A locking)	Standard luminaire
15P2420L	15' cord - 3 conductor (black/white/green) - NEMA L24-20 plug (347V/20A locking)	UNC luminaire
15P820L	15' cord - 3 conductor (black/white/green) - NEMA L8-20 plug (480V/20A locking)	UNC luminaire

CONTRACTOR LIGHTING & SUPPLY
WWW.CONTRACTORLIGHTING.COM

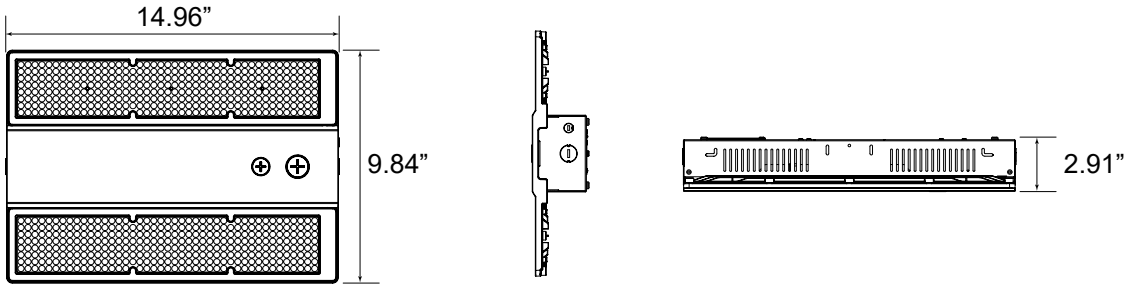
PROJECT
TYPE
CATALOG #

20-HBLHESR

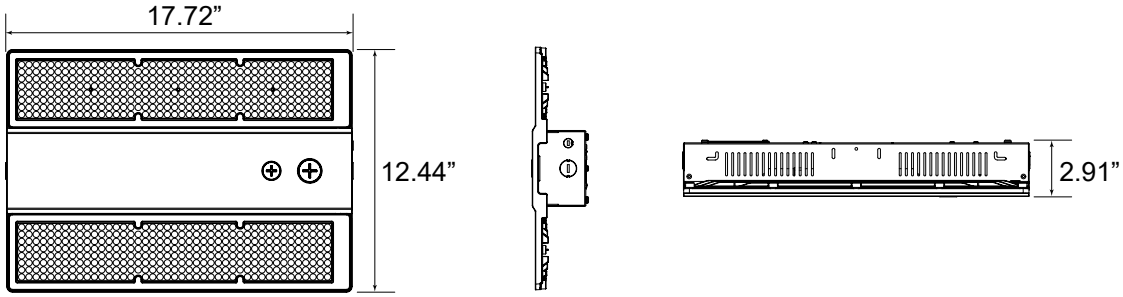
LED LINEAR HIGH BAY HIGH EFFICIENCY & SENSOR READY

DIMENSIONAL DRAWINGS

20-HBLHESR-302420L-3CCT-UNC



20-HBLHESR-453730L-3CCT-UNC



20-HBLHESR-575043L-3CCT-UNC

