

# HRDHB Series

## High Temperature High Bay

### KEY FEATURES:

- BAA & BABA Compliant
- 15KA TVSS: Protects against power surges
- UL Listed Drivers: Rated up to 167°F (75°C) with <1% failure rate (UL 1598)
- Remote Driver: Minimizes temperature and adapts to changing plant demands
- 10-Year Module Warranty: Full engine or plug-and-play driver replacement

### SPECIFICATIONS

**WATTAGE:** 100, 150, 200, 250, 300, 350 & 400 Watts

**CCT:** 4000K & 5000K

**CRI:** 4000K = >70 5000K = >90

**DISTRIBUTION:** 120°

**PERFORMANCE:** Up to 163 lm/W

**POWER FACTOR:** >0.9

**DIMMING:** 1-10V Dimming

**PROTECTION:** IP65, IK08 & 15KA TVSS

**WARRANTY:** 10-Year Module Warranty



### OPERATING TEMPERATURES

HRDHB-1 Standard Temp	HRDHB-2 High Temp
-40°F to 125°F (or -40°C to 52°C)	-40°F to 185°F (or -40°C to 80°C)
<i>Cord(s): Up to 90°C (194°F) Nylon Nut(s): Up to 121°C (250°F)</i>	<i>Polycarbonate Lens: Up to 138°C (280°F) Motion Sensor: Up to 77°C (167°F)</i>

### MOUNTING



**Integrated Driver**  
Includes Heat Dissipating Driver Box with Hook.  
Available: 167°F and below



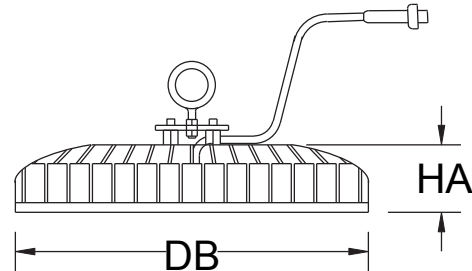
**Crane Bay**  
Vibration Resistant Surface Mount.  
Available: 125°F and below



**Top Mounted Driver**  
No Driver Box. Top Mount Plate with Hook.  
Available: 125°F and below



**Top Mounted Driver**  
The driver box can be hung 10' to 1,000' away.  
Ground level, ceiling level, mounted to strut, or to a wall  
Available: 185°F and below



Wattage	HRDHB-1 Standard Temp	HRDHB-2 High Temp
	Dimensions	Dimensions
100W	11" D x 1.9" H	11" D x 1.9" H
150W	11" D x 1.9" H	16" D x 2.2" H
200W	16" D x 2.2" H	16" D x 2.2" H
250W	16" D x 2.2" H	18" D x 3.5" H
300W	18" D x 3.5" H	18" D x 3.5" H
350W	18" D x 3.5" H	N/A
400W	18" D x 3.5" H	N/A

### ACCESSORIES



**APS**  
Prismatic Shroud  
PN: HRDHB-APS



**DB**  
Strut Mount Driver Box  
PN: HRDHB-DB



**Sensor 1**  
Wattstopper with L7 lens  
PN: 1  
(FSP-201)



**Sensor 1**  
IoT sensor with L7 lens  
PN: 1  
(FSP-L7)



**Sensor 2**  
IoT sensor by Siemens Enlighted  
PN: 2

### LUMINOUS OUTPUT & DIMENSIONS

Wattage	HRDHB-1 Standard Temp		HRDHB-2 High Temp	
	Output	Dimensions	Output	Dimensions
100W	14,400 lm	11" D x 1.9" H	13,940 lm	11" D x 1.9" H
150W	22,180 lm	11" D x 1.9" H	22,180 lm	16" D x 2.2" H
200W	32,730 lm	16" D x 2.2" H	32,730 lm	16" D x 2.2" H
250W	39,910 lm	16" D x 2.2" H	39,910 lm	18" D x 3.5" H
300W	49,550 lm	18" D x 3.5" H	49,550 lm	18" D x 3.5" H
350W	57,973 lm	18" D x 3.5" H	N/A	N/A
400W	66,050 lm	18" D x 3.5" H	N/A	N/A

## ORDERING INFORMATION

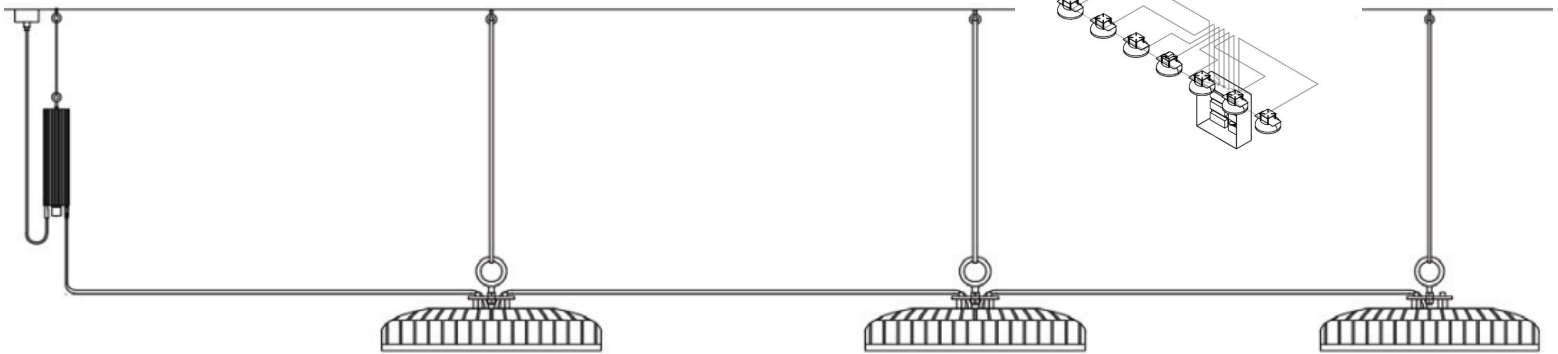
### ORDERING GUIDE

1														
Series	Wattage		CCT	Optic	Lens	Voltage	Remote Cable		Sensor	Battery Backup	DLC	Power Cord		Cord Length
HRDHB-1 Std Temp	100 = 100W	300 = 300W	40 = 4000K	1 = None	2 = Flat Poly Clear*	1 = 120-277V	X = Integrated Driver	4 = 50 ft	X = None	X = No	X = N/A	1 = Whip 120-277V	6 = 277V 15amp	1 = 6 ft
	150 = 150W	350 = 350W	50 = 5000K		6 = Tempered glass clear	2 = 24V DC	0 = Top Mount	5 = 100 ft	1 = STD Wattstopper <sup>1</sup>	1 = Yes	1 = Standard	2 = Whip 347-480V	Twistlock	2 = 12 ft
	200 = 200W	400 = 400W			* Due to melting concerns, these lenses are only available with HRDHB-1	4 = 347-480V	C = Crane Bay	6 = 200 ft	2 = IOT <sup>2</sup>		2 = Premium	3 = 125V 15amp	7 = 277V 20amp	
HRDHB-2 High Temp	100 = 100W	200 = 200W						1 = 6 ft				Straight	Twistlock	
	150 = 150W	250 = 250W						2 = 10 ft				4 = 125V 20amp	8 = 480V 20amp	
		300 = 300W						3 = 25 ft	9 = Custom length			5 = 250V 20amp	9 = 600V 20amp	
HRDHB-4 Crane Bay <small>*must come as a Top Mount</small>	100 = 100W	200 = 200W											Twistlock	
	150 = 150W	250 = 250W											Twistlock	
		300 = 300W											Twistlock	M = M12, 3 feet

Notes:  
<sup>1</sup> - Standard: Features sensors by Wattstopper with an L7 lens.  
<sup>2</sup> - Internet of Things (IoT): Features sensors by Enlighted Sensors.

## DAISY CHAINING

## Control Panel for Multiple Lights



### DAISY CHAIN & CONTROL PANEL OPTIONS

Our custom daisy chain configurations and custom control panel options allow you to power multiple fixtures with one driver, saving you money and space. And we can custom-mount your drivers at a height that best suits your environment. Ask your Rep for more information.

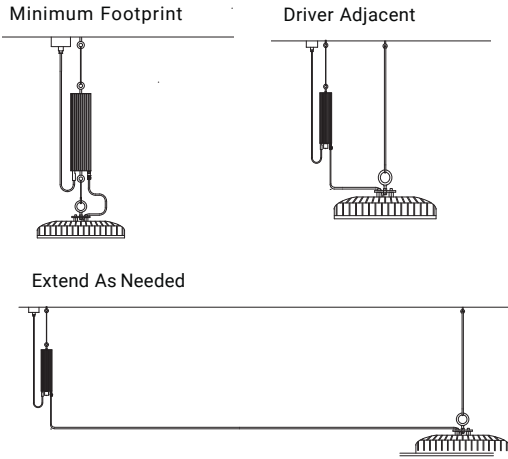
## ORDERING INFORMATION - DAISY CHAIN

### ORDERING GUIDE

1																
Series	Wattage		CCT	Optic	Lens	Voltage	Remote Cable		Sensor	Battery Backup	DLC	Power Cord		Cord Length	Daisy Chain	Fixture Cable
HRDHB-1 Std Temp	100 = 100W	300 = 300W	40 = 4000K	1 = None	2 = Flat Poly Clear*	1 = 120-277V	X = Integrated Driver	4 = 50 ft	X = None	X = No	X = N/A	1 = Whip 120-277V	6 = 277V 15amp	1 = 6 ft	2	1 = 6 ft
	150 = 150W	350 = 350W	50 = 5000K		6 = Tempered glass clear	2 = 24V DC	0 = Top Mount	5 = 100 ft	1 = STD	1 = Yes	1 = Standard	2 = Whip 347-480V	Twistlock	2 = 12 ft	3	2 = 10 ft
					* Due to melting concerns, these lenses are only available with HRDHB-1	4 = 347-480V	C = Crane Bay	6 = 200 ft	Wattstopper <sup>1</sup>		2 = Premium	3 = 125V 15amp	7 = 277V 20amp			3 = 25 ft
HRDHB-2 High Temp	100 = 100W	200 = 200W						1 = 6 ft				Straight	Twistlock			4 = 50 ft
	150 = 150W	250 = 250W						2 = 10 ft				4 = 125V 20amp	8 = 480V 20amp			5 = 100 ft
		300 = 300W						3 = 25 ft	9 = Custom length			5 = 250V 20amp	9 = 600V 20amp			6 = 200 ft
											Twistlock	Twistlock				7 = 500 ft
											Twistlock	Twistlock				8 = 1,000 ft
												M = M12, 3 feet				9 = Custom length

Notes:  
 100 Watt Max Daisy Chain = 3 fixtures & 150 Watt Max Daisy Chain = 2 fixtures  
<sup>1</sup> - Standard: Features sensors by Wattstopper with an L7 lens.  
<sup>2</sup> - Internet of Things (IoT): Features sensors by Enlighted Sensors.

## DRIVER + BATTERY BACKUP



## REMOTE DRIVER SYSTEMS

Drivers operate in ambient temperatures up to 167°F, while the light engine withstands up to 245°F. If temperatures exceed 167°F, the driver must be relocated to a cooler area within 10' to 1,000' without voltage drop-off.

The driver box can be mounted at ground, ceiling, wall, or strut level. Its universal plug-and-play design ensures easy accessibility.



**Battery Backup**  
25W Battery PN: 1  
(EM-L2554-LBF)

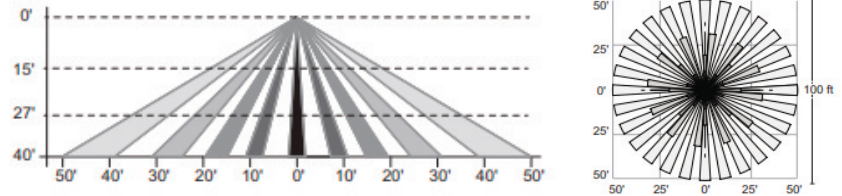
## OPERATION

If AC power fails, the EM series emergency LED driver switches to emergency mode, operating the LED at reduced output for at least 90 minutes. Once power is restored, it automatically returns to charging mode.

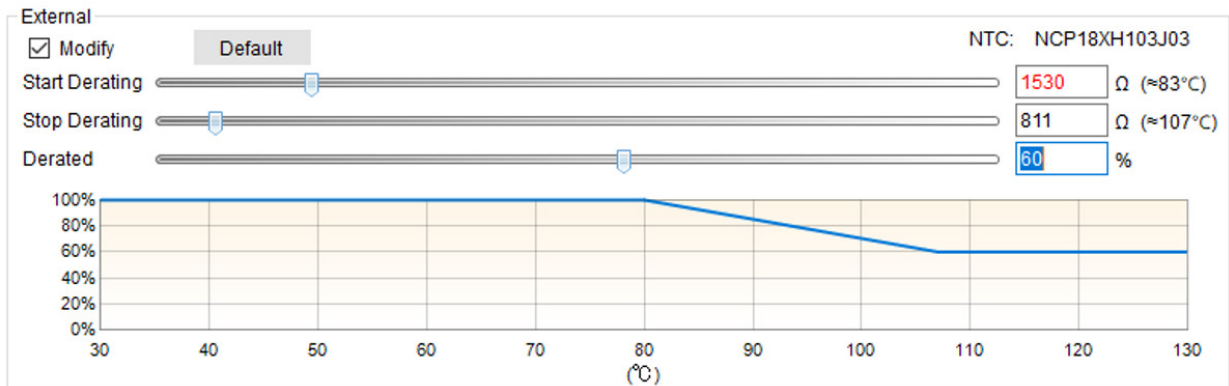
## EMERGENCY LUMEN OUTPUT EXAMPLE: 25 WATT BATTERY

Est Luminaire Efficacy	Est Lumens @1Minute	Est Lumens @45 Minutes	Est Lumens @90 Minutes
140 LPW	3500 lm	3500 lm	3500 lm
150 LPW	3750 lm	3750 lm	3750 lm
160 LPW	4000 lm	4000 lm	4000 lm

## MOTION SENSOR COVERAGE



## EXTERNAL THERMISTOR DIMMING



\* LEDsset to dim to 60% once the boards reach 108°C

## LM80 REPORT

DATA AVERAGES					
AMBIENT TEMPERATURE	OPERATING HOURS				
	0	6,000	9,000	12,000	13,000
55°C	100%	96.92%	95.99%	95.33%	95.08%
85°C	100%	96.33%	95.14%	94.21%	93.88%
105°C	100%	95.48%	93.97%	92.70%	92.31%