

HBHS2

Applications

The HARRIS Patriot Slimline high bay fixture provides a sleek new construction or retrofit solution. The low profile design offers energy savings, low maintenance, and control options for high and low bay settings in industrial, commercial, and retail applications.

Project Name:	
Catalog Number:	
Type:	
Note:	
Date:	



HBHS215LUNVFD850HWSP



Construction & Design

- Lightweight aluminum body allows for optimal thermal management and ease of handling during installation
- 4' Narrow I-frame design
- Open design with optional acrylic frosted lens to diffuse LEDs and enhance low bay applications

Additional Options

- Fixture wireguard available
- Battery Back Up available in 10w or 20w, Certified in CA Title 20
- Emergency fixture identifier option. Ends painted orange for easy identification from the floor. Primarily for use on fixtures with battery backup and fixtures connected to an emergency circuit
- Configurable power connections
- Rigid and suspended mounting options

Electrical

- Available in 120v-277v, 347v and 480v
- Standard 0-10v dimming drivers
- 20kV/10kA surge protection available
- Power Factor >0.9*
- Total Harmonic Distortion < 20%*

*Note: Varies based on option

Control and Sensor Options

- Factory installed control and sensor options
- Control and sensor options are available to be installed in the field with plug-n-play connection
- Manual Programming Sensors
- Remote Programming Sensors
- On site Network Programming
- Internet/Cloud Based Network Programming

Lumen Maintenance

See lumen maintenance table on page 2

Fixture Certification & Listings

- UL/cUL Listed for Damp Locations
- Buy American Act Compliant
- DesignLights Consortium™ Premium qualified luminaire
- DesignLights Consortium™ Standard qualified luminaire
- Visit the [DLC QPL](#) for listed models

Patent Information

Orion is serious about intellectual property. This product may be covered by one or more patents. Patent information available at <http://www.orionlighting.com/about/patents/>

Warranty

See Orion's [Product Limited Warranty](#) for more details and information

Performance Information, 277v, 5000K, ≥80 CRI¹

Nominal Lumen Code	Wattage	No Lens		LAFG		Input Current
		Actual Lumens	LPW	Actual Lumens	LPW	
12L	68w	12,256lm	179	11,176lm	164	0.24A
15L	91w	15,548lm	171	14,122lm	156	0.33A
19L	122w	20,213lm	166	18,368lm	151	0.44A
24L	136w	24,596lm	181	21,775lm	161	0.49A
30L	180w	30,540lm	170	28,003lm	155	0.65A

Lumen Maintenance with No Lens²

Nominal Lumen Code	Nominal Lumens	Operating Temperature	Calculated Lumen Maintenance		
			L70	L80	L90
12L	12,000	25°C	165,000	103,000	50,000
		45°C	148,000	93,000	45,000
15L	15,000	25°C	165,000	103,000	50,000
		45°C	145,000	92,000	44,000
19L	19,000	25°C	155,000	98,000	48,000
		45°C	139,000	88,000	42,000
24L	24,000	25°C	162,000	102,000	49,000
		45°C	144,000	90,000	44,000
30L	30,000	25°C	154,000	96,000	46,000
		45°C	138,000	87,000	42,000

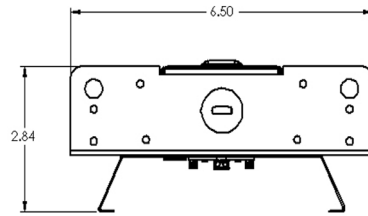
Additional Specification Information

¹ Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values

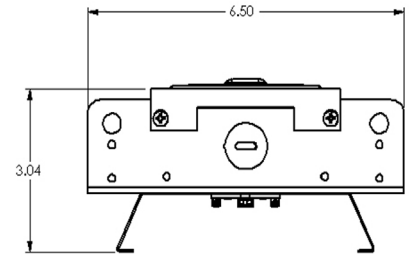
² Calculated hours based on TM-21 projections and components used at the time of testing. Warranty is not associated with Calculated Lumen Maintenance

Physical Information

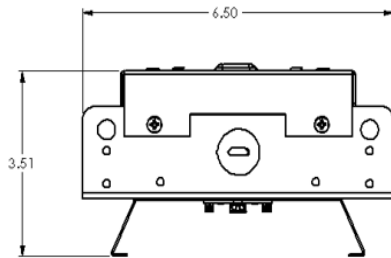
Nominal Lumen Code	Length	Width	Depth	Weight ³
12L	47.28"	6.50"	2.84"	4-10 lbs.
15L	47.28"	6.50"	3.04"	4-10 lbs.
19L	47.28"	6.50"	3.51"	4-10lbs.
24L	47.28"	7.10"	3.04"	6-12 lbs.
30L	47.28"	7.10"	3.51"	10-16 lbs.



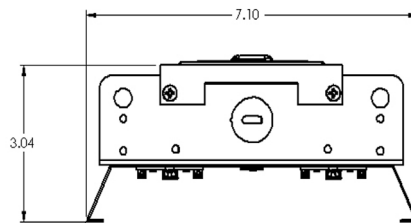
12L Dimensions



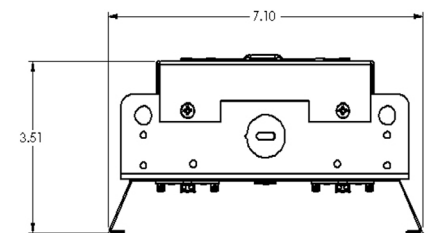
15L Dimensions



19L Dimensions



24L Dimensions



30L Dimensions

Ambient Operating Temperatures

Nominal Lumen Code	All Voltages	With Battery Back Up
All Lumen Packages	-20°C to 45°C [-4°F to 113°F]	Min. Operating Temp. 0°C [32°F]

Sensor Type	Operating Range
LV40	0°C to 45°C [32°F to 113°F]
LD40	0°C to 45°C [32°F to 113°F]
ISxx	0°C to 45°C [32°F to 113°F]
WSxx	0°C to 45°C [32°F to 113°F]
WBxx	0°C to 45°C [32°F to 113°F]
PH50	0°C to 45°C [32°F to 113°F]

Additional Specification Information

³ Varies based on option selection

Ordering Information Example (NOTE: No dashes or spaces unless noted below)

HBHS215LUNVFD850HWSP

Ordering Information (Enter Selected Catalog Number Below)

Series	Nominal Lumen Code ⁴	Voltage	Driver Type	CRI; Color Temp	Lens Options	Power Connection	Fixture Options	Factory Installed Sensor and Control Options	Packaging Options
HBHS2= HARRIS LED High Bay, Patriot Slimline, Gen 2	12L= 12,000lm 15L= 15,000lm 19L= 19,000lm 24L= 24,000lm 30L= 30,000lm	UNV= 120v-277v 347= 347v ⁵ 480= 480v ⁵ Note: External Transformers Available [See Accessories Table]	FD= Full Dimming	840= 80CRI; 4000K 850= 80CRI; 5000K	[blank]= No Lens LAFG= Lens Acrylic Frosted General 120° (with End Caps)	[See below for part numbers and descriptions]	[Blank]= No Fixture Options BB10= Battery Back Up, 10w ^{6,7} BB20= Battery Back Up, 20w ^{6,7} BE10= Battery Back Up, 10w, with Orange painted End Caps ^{6,7} BE20= Battery Back Up, 20w, Orange painted End Caps ^{6,7} OE= Orange Emergency (Painted End Caps) TS= 20kV/10kA Surge Protection EC= End Caps (for No Lens Option)	[See page 5 for part numbers and descriptions]	[Blank]= Bulk Pack SP= Single Pack

Power Connection Ordering Information

Power Connection Options

HW= Hardwire (includes dimming leads)⁸

ML= Mate-N-Lok connector (requires purchase of Mate-N-Lok power cord - sold separately)⁸

PF= Platform connector (requires purchase of platform power cord - sold separately)

PFD= Platform connector (includes dimming leads, requires purchase of platform cord - sold separately)

Or build a cord below:

Whip Length	Whip Color	Whip Type	Plug Option* [Plug Only Available for Non-Dimming Cords]	Plug Amperage* [Select Amperage only if plug is selected]	Voltage [Select Voltage only if plug is selected]
06= 6' whip	W= White	[Blank]= Non-dimming 3 leads	[Blank]= No plug	15= 15 amps	1= 120v
11= 11' whip	B= Black	D= Dimming 5 leads	TL= TwistLock plug	20= 20 amps	2= 277v
			SB= Straight blade plug		4= 480v
		EM= Emergency 4 leads [18/4]**			

* If a sensor will be specified, please specify a power connection without dimming leads

**If a plug is required for an emergency whip type [EM], please contact the factory.

Additional Specification Information

⁴ For actual lumens, see performance table

⁵ Certain control options are not available with 347v and 480v. Please consult with Customer Service

⁶ Multiply 10w or 20w by the lumens per watt [LPW] of the fixture to calculate lumen output in emergency mode

⁷ Fixture with Battery Back Up cannot be used with **PF** or **ML** power connections

⁸ **ML** (Mate-N-Lock) or **HW** (Hardwire) fixture option is not available with OEMSI style sensors

Sensor and Control Ordering Information

HBHS2

Factory Installed Sensor and Control Options⁹

[Blank]=
No Control Options

LV40=
PIR Occupancy Sensor, ON/OFF, 360° High/Low Bay Lenses with Aisle Mask

LD40=
PIR Occupancy Sensor, HIGH/LOW/OFF, 0-10V Dimming, Daylight Harvesting Photocell with Active Dimming, 360° High/Low Bay Lenses with Aisle Mask

ISxx=
IR-TEC PIR Occupancy Sensor, HIGH/LOW/OFF, 0-10V Dimming, Daylight Harvesting Photocell with Active Dimming, IR Remote Programmable, 360°^{10, 12}

WSxx=
Wattstopper PIR Occupancy Sensor, HIGH/LOW/OFF, 0-10V Dimming, Switching Photocell, IR Remote Programmable, 360°^{10, 12}

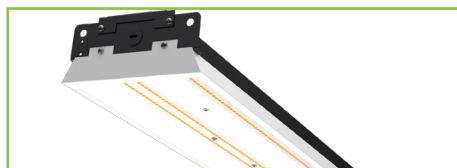
WBxx=
PIR Occupancy Sensor, HIGH/LOW/OFF, 0-10V Dimming, Switching Photocell, Bluetooth, Mobile App Programmable, 360°¹⁰

PH50=
Philips EasySense, PIR Occupancy Sensor, HIGH/LOW/OFF, SR Dimming, Daylight Harvesting Photocell with Active Dimming, ZigBee, Android App Programmable, 360° 17'-50' Lens

Fixture Options (Factory Installed)



**Frosted Lens
(LAFG)**



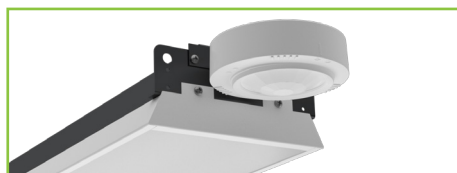
**End Caps No Lens
(EC)**



**Battery Back Up
(BBxx)**



**Control
(WSxx/WBxx)**



**Philips EasySense Control
(PH50)**

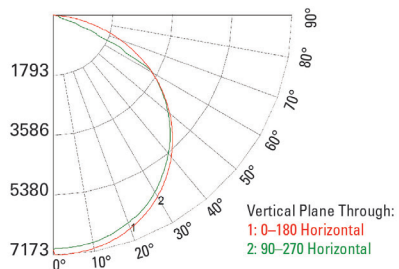


**IR-TEC Sensor
(ISxx)**

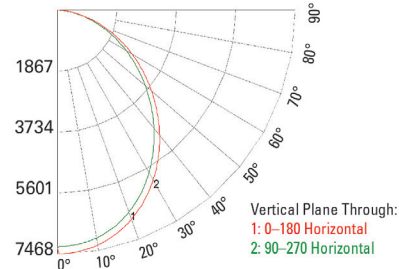
Photometrics

Visit orionlighting.com to obtain all .IES files

19L 850 No Lens



19L 850 LAFG



Additional Specification Information

⁹ For more information about these options go to our [controls landing page](#)

¹⁰ "xx" in part number is a place holder for lens height of sensor. Either "20" or "40" can be included at end of part number to replace the "xx" placeholder

¹¹ "xx" in part number is a place holder for lens height of sensor. Either "30" or "40" or "50" can be included at end of part number to replace the "xx" placeholder

¹² Requires remote for commissioning and/or modifying settings. See accessories table

Sensors (Field Installed)

Plug 'N Play End Mounted Sensor Options ^{8,13} *	
OEMS1300P	Plug 'N Play End Mounted On/Off Only Sensor, 120v-277v, Normal Temp/Dry, High Bay, Low Bay & Aisle Lenses, 4-Pin Platform Input, 4-Pin Platform Output
OEMS1330P	Plug 'N Play End Mounted On/Off Only Sensor, 120v-277v, Cold Temp/Damp, High Bay, Low Bay & Aisle Lenses, 4-Pin Platform Input, 4-Pin Output
OEMS1370P	Plug 'N Play End Mounted On/Off Only Sensor, 480v, Normal Temp/Dry, High Bay, Low Bay & Aisle Lenses, 5-Pin Platform Input, 5-Pin Platform Output
OEMS1360P	Plug 'N Play End Mounted Remote Programmable On/Dim/Off & Ambient Sensor, 120v-277v, Cold & Normal Temp, 20'-40' Lens, 4-Pin Platform Input, 5-Pin Platform Output [Requires FSIR-100 Sensor Configuration Tool - Not Included]
OEMS1368P	Plug 'N Play End Mounted Remote Programmable On/Dim/Off & Ambient Sensor, 347v/480v, Cold & Normal Temp, 20'-40' Lens, 5-Pin Platform Input, 5-Pin Platform Output [Requires FSIR-100 Sensor Configuration Tool - Not Included]
OEMS1380P	Plug 'N Play End Mounted Bluetooth App Programmable On/Dim/Off & Ambient Sensor, 120v-277v, Cold & Normal Temp, 20'-40' Lens, 4-Pin Platform Input, 5-Pin Platform Output
OEMS1 Network Controls	Plug 'N Play End Mounted. For end mounted field installed network control options and order logic, click the hyperlink to the left for more information
Sensor Remote Option	
SRP-280	Sensor Configuration Tool Required for Adjusting Default Factory Settings [Ordered Separately- To Be Used with ISxx]
FSIR-100	Sensor Configuration Tool Required for Adjusting Default Factory Settings, Including Hi/Low/Off Modes and Sensitivity/Time Delay/Cut Off [Ordered Separately- To Be Used with WSxx, OEMS1360P or OEMS1368P]
*For more information on our OEMS1 style sensors, or additional sensor options, click here .	

Sensors and Accessories (Field Installed)



**Plug 'N Play End Mounted Sensor Full Dimming
{OEMS1360P-DG}**



**Plug 'N Play End Mounted Sensor Non-Dimming
{OEMS1300P-WH}**



**Plug 'N Play End Mounted Network Control
{See Hyperlink for Order Logic in Field Accessories Table}**



**Sensor Configuration Tool
{FSIR-100}**

Additional Specification Information

⁸ **ML** (Mate-N-Lock) or **HW** (Hardwire) fixture option is not available with OEMS1 style sensors

¹³ Plug 'N Play sensors come with Raw Aluminum housing finish. Dark Gray and White housings are available. For Dark Gray add "-**DG**" at the end of the sensor part number. For a White Housing add "-**WH**" at the end of the sensor part number

Fixture Accessories [Field Installed]

Suspended Mounting Options	
ECAB19	19" Cables with Snap Hooks [2 Required per Fixture]
ECAB31	31" Cables with Snap Hooks [2 Required per Fixture]
HW-FC008	Hanging Cable Set: Adjustable 180", Loop, Y-Fit with Snap Hooks
OESH101BRA	Eyebolt Mounting Bracket Kit, Requires Two Secondary Hangers Longer Than 30"
OESH108RA	Pendant Mounting Bracket Kit, Requires Two Secondary Hangers Longer Than 30"
Fixture Rigid Mounting Options	
H130SET	BRACKET SET: Rigid/Flush Mount Bracket Set, Raw Metal Finish
H130SET-DG	BRACKET SET: Rigid/Flush Mount Bracket Set, Dark Gray Powdercoat Finish
PMRM-HBHS1-EMC-3/4	PENDANT MOUNT BRACKET: Rigid Pendant Mount Bracket, Raw Metal Finish, 3/4" Pendant Size
PMRM-HBHS1-EMC-DG-3/4	PENDANT MOUNT BRACKET: Rigid Pendant Mount Bracket, Dark Gray Powdercoat Finish, 3/4" Pendant Size
Wireguard Options**	
LED-HBHS-WG05-KIT	Wireguard Kit for 12L/15L/19L Fixture, Bulk Packaging
LED-HBHS-WG06-KIT	Wireguard Kit for 24L/30L Fixture, Bulk Packaging
**Add "-SP" at the end of the Additional Fixture Accessories order logic for Single Pack.	
Frosted Acrylic Lens Kit Options**	
LED-HBHS-LF05-KIT	Frosted Acrylic Lens Kit for 12L/15L/19L Series, Bulk Packaging
LED-HBHS-LF06-KIT	Frosted Acrylic Lens Kit for 24L/30L Series, Bulk Packaging
**Add "-SP" at the end of the Additional Fixture Accessories order logic for Single Pack.	
External Transformers ¹⁴	
TRBX001-G	External Transformer Box [347v/480v to 277v] for Use with 4-Pin 120v-277v Fixtures [For Use with Narrow Channel Fixtures]
TRBX001-G-5P	External Transformer Box [347v/480v to 277v] for Use with 5-Pin 120v-277v Fixtures [For Use with Narrow Channel Fixtures]
TRBX004-G	External Transformer Box [347v/480v to 277v] for Use with 4-Pin 120v-277v Fixtures [For Use with Wide Channel Fixtures]
TRBX004-G-5P	External Transformer Box [347v/480v to 277v] for Use with 5-Pin 120v-277v Fixtures [For Use with Wide Channel Fixtures]



Fixture Wireguard
(LED-HBHS-WG05-KIT-SP)

Additional Specification Informatio

¹⁴ Requires the use of a platform [PF] fixture, cannot be used on battery backup [BB & BE] fixtures, and cannot be used with a full dimming external (non-fixture) control system. Contact Customer Service for the correct External Transformer Kit part number to use with your fixture