HBHS1

Applications

The HARRIS PATRIOT HBHS1 High Lumen is designed to exceed high bay illumination requirements for industrial, commercial, and retail applications. Ideal when seeking feature rich, value oriented energy savings and maintenance reduction solutions.

HBHS1G1OAUNVFDXX850NOLPF

Features

- 4' I-Frame Lightweight aluminum body allows for optimal thermal management and ease of handling during installation
- Open design with optional acrylic frosted lens available to reduce glare and enhance low bay applications
- Rigid and suspended mounting options available
- Optional aisle illumination performance package: 95% reflectance polished aluminum
- Emergency fixture identifier available. Ends painted orange for easy identification from the floor. Can be used on fixtures with battery backup or fixtures connected to an emergency circuit
- Fixture wireguard available
- End mounted and integrated controls and sensors available (see accessories table)
- 10 kA surge protection available

Electrical

- Available in 120v-277v, 347v and 480v
- Full Dimming (0-10v) and Non Dimming fixtures are available

Ambient Operating Range

Refer to ambient operating table on page 2

Fixture Certification & Listings

- UL/cUL Listed for Damp Locations
- Buy American Act Compliant

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/

Rated Life

100,000 hours L70

Warranty

Orion HARRIS class LED fixtures are covered by a five-year limited warranty. Accessories and individual components are covered by separate OEM supplier warranties.
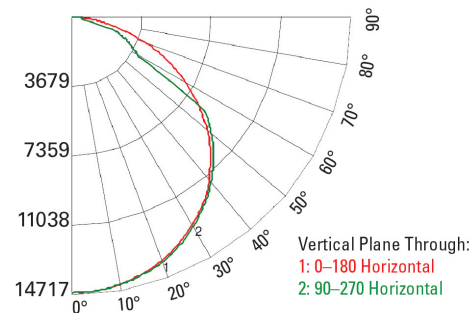
Performance Information, Open Area No Lens[3]

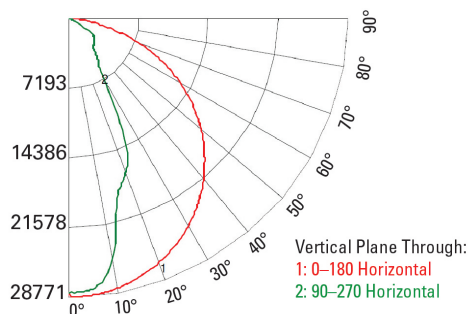| Series	Nominal Lumen Code	Actual Lumens	Input Voltage	Wattage	LPW	CCT	CRI	Input Current	Power Factor
High Efficiency									
HBHS1	G1	32,110lm	277v	206w	156	5000K	≥80	0.74A	>.90
HBHS1	H1	36,790lm	277v	254w	145	5000K	≥80	0.92A	>.90
HBHS1	I1	41,290lm	277v	291w	142	5000K	≥80	1.05A	>.90
HBHS1	J1	47,320lm	277v	281w	168	5000K	≥80	1.02A	>.90
HBHS1	K1	54,240lm	277v	330w	164	5000K	≥80	1.19A	>.90
Standard Efficiency									
HBHS1	GA	32,500lm	277v	254w	128	5000K	≥80	0.92A	>.90
HBHS1	HA	35,860lm	277v	286w	125	5000K	≥80	1.03A	>.90

Photometrics

Visit orionlighting.com to obtain all .IES files

I1 OA 850 NOL

Vertical Plane Through:
1: 0–180 Horizontal
2: 90–270 Horizontal

I1 AA 850 NOL

Vertical Plane Through:
1: 0–180 Horizontal
2: 90–270 Horizontal

Physical Information

Length	Width	Depth[4]	Weight[4]
48.09”	16.90”	2.90”	11.00-13.00lbs.

Ambient Operating Temperatures[8,10]

Nominal Lumen Code	All Voltages	All Voltages (-C Option)
G1/J1/K1	-20°C to 45°C (-4°F to 113°F)	-40°C to 45°C (-40°F to 113°F)
I1	-20°C to 50°C (-4°F to 122°F)	-40°C to 50°C (-40°F to 122°F)
GA/H1/HA	-20°C to 55°C (-4°F to 131°F)	-40°C to 55°C (-40°F to 131°F)

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

Series	Nominal Lumen Code	Application	Voltage	Driver Type	CRI; Color Temp	Lens Options	Power Connection	Fixture Options	Control Options	Packaging Options
HBHS1	G1	OA	UNV	FDXX	850	NOL	PF	TS	MC20	-SP

Ordering Information

Series	Nominal Lumen Code[1]	Application	Voltage	Driver Type[2]	CRI; Color Temp	Lens Options	Power Connection	Fixture Options	Control Options	Packaging Options
HBHS1= HARRIS LED High Lumen High Bay Patriot, GEN 1	G1= 32,000lm GA= 32,000lm H1= 36,000lm HA= 36,000lm I1= 41,000lm J1= 47,000lm* K1= 54,000lm* *Note: J1 and K1 are unavailable with the **AA** Application option.	OA= Open Area AA= Aisle Area*	UNV= 120v-277v 347= 347v[17] 480= 480v Note: External Transformers Available (See Accessories Table)	FDXX= Full Dimming 0-10v NDXX= Non-Dimming	840= 80CRI; 4000K 850= 80CRI; 5000K	NOL= No Lens LFA= Lens, Frosted Acrylic (with End Caps) Note: Wireguard Available (See Accessories Table)	PF= Platform[7] HW= Hardwire[13] ML= Mate N Lock[7,11,13]	(Blank)= No Option BB= Battery Back Up[8,15] OE= Orange Emergency (Painted End Caps) BE= Battery Back Up with Orange Emergency (Painted End Caps)[8,15] EC= End Caps (Lens Not Included) TS= 10 kA Surge Protection -C= Cold Temperature Environment	(Blank)= No Option MSL1= Integrated Control, On/Off Only, High, Low Bay and Aisle Lenses[5,18,19] MC20= Integrated Control, Manual Programmable, 8'-20' Lens[6,17,19] MC40= Integrated Control, Manual Programmable, 20'-40' Lens[6,17,19] WS20= Integrated Control, Remote Programmable, 8'-20' Lens[6] WS40= Integrated Control, Remote Programmable, 20'-40' Lens[6] -DT= Integrated Control, Daintree, ZigBee Wireless System, High, Low Bay and Aisle Lenses[6,9,19] -EN= Integrated Control, Enlighted Wireless System, (Max. Install Height 50')[6,9,10,19] Note: End Mounted Sensors Available (See Accessories Table)	(Blank)= Bulk Pack -SP= Single Pack

Accessories (Field Installed)

End Mounted Sensor Options[14] *	
OEMS1300P[5]	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[5]	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[5]	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[6]	End Mounted 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 Remote Configuration Tool - Not Included)
OEMS1368P[6]	End Mounted 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 Remote Configuration Tool - Not Included)
FSIR-100	Hand-Held 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 OEMS1360P or OEMS1368Por embedded WS-20 or WS-40)

*For more information on our OEMS1 style sensors, or additional sensor options, click here for Dimming Sensors and click here for Non-Dimming Sensors.

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
HW-FC020-SH	Hanging Cable Set: Adjustable 120", Loop, Y-Fit with (2) Loops, (2) Snap Hooks Included (Not Attached)
OESH101BRA	Eyebolt Mounting Bracket Kit, Requires Two Secondary Hangers Longer Than 30"
OESH108RA	Pendant Mounting Bracket Kit, Requires two Secondary Hangers Longer Than 30"
Rigid Mounting Options	
H126SET-DG	Rigid/Flush and Threaded Rod Mounting Bracket Set, Dark Gray
FMCM-KIT-DG[12]	Rigid/Flush and Threaded Rod Mounting Bracket Set, Dark Gray
OESH200-DG[12]	Adjustable Length and Adjustable Angle Rigid Mounting Bracket Set, Dark Gray
PMRMCM-3/4-EW-DG	Rigid Pendant Mounting Bracket for Open Style Fixtures, Dark Gray
**Additional Fixture Accessories **	
LED-HBHS-WG03-KIT	Wireguard Kit for HBHS1 High Lumen Series, Bulk Packaging
LED-HBHS-EC03-KIT	End Cap Kit for HBHS1 High Lumen Series, (lens not included)
LED-HBHS-LF03-KIT	Frosted Acrylic Lens Kit for HBHS1 High Lumen Series (end caps included)
LED-HBHS-AA03-KIT	Aisle Application Reflector Kit for HBHS1 High Lumen Series

**Accessories available in Single Pack. Add "-SP" to end of part number.

External Transformers[16]	
TRBX004-G	External Transformer Box (347v/480v to 277v) for Use with 4-Pin 120v-277v Fixtures
TRBX004-G-5P	External Transformer Box (347v/480v to 277v) for Use with 5-Pin 120v-277v Fixtures

Accessories (Field Installed)

**Fixture Wireguard Kit
(LED-HBHS-WG03-KIT)**

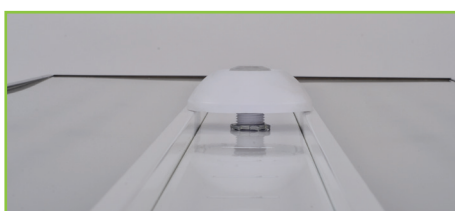## Fixture Options (Factory Installed)

Battery Back Up Orange End Caps
(BE)

Orange End Caps
(OE)

Frosted Lens
(LFA)

Integrated Sensor
(WSXX)

Integrated Sensor
(-EN)

End Caps No Lens
(EC)

Additional Specification Information

[1] For actual lumens, see performance table

[2] "XX" is a character placeholder for the manufacturing configuration

[3] Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values. Values test results, and performance tables are based on an open area application at 277v

[4] Weight and depth will vary based on option selection

[5] Feature/accessory option is only available with **NDXX** driver type

[6] Feature/accessory option is only available with **FDXX** driver type

[7] Requires Platform or Mate-N-Lock power cord. Cord is not included with fixture purchase

[8] Fixture with Battery Back Up cannot be installed in an environment where the ambient temperature falls below 32°F

[9] Contact customer service regarding additional commissioning and back end control system pricing

[10] **-EN** is limited to -35°C (-31°F) environments

[11] **ML** (Mate N Lock) is only available with a **NDXX** driver type unless used with an integrated dimming capable control (**MCxx, WSxx, -DT,** or **-EN**)

[12] Brackets can not be used with an end mounted sensor

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

[14] All Sensors come standard with a Raw Aluminum housing finish. Dark Gray and White housings are available. For Dark Gray add "**-DG**". For a White Housing add"**-WH**" at the end of the sensor part number

[15] Fixture with battery backup requires a hardwired fixture connection

[16] 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

[17] Consult Customer Service for 347v Fixture and Control Options. Certain lumen packages and options may not be available in 347v

[18] Battery backup (**BB** & **BE**) option with **MSL1** is not available in 480v

[19] Requires the use of a TRBX for 480v applications. Battery backup (**BB** & **BE**) option with this control is not available in 480v

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