# OCIOCI ISON™ AREA LIGHT HIGH PERFORMANCE, GEN 1

# IAHP1

### Applications

The ISON IAHP1 industry leading lumen per watt performance maximizes energy savings and leads to the lowest total cost of ownership for exterior lighting. The ISON Area Light High Performance provides uniform distribution for area and site lighting in retail, commercial, and residential applications including driveways and parking areas. Replaces up to 1200W HID industrial fixtures.

IAHP1C1UNVFD840BRT3-SP	

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



### **Construction & Design**

- Type III, IV, and Type V light distributions
- 13,000 to 63,000 lumens
- Precision engineered lens made of optical grade polycarbonate for maximum light intensity
- Tool-less access to electrical components for field maintenance and installation
- Eight lumen packages offered across three fixture sizes
- Anti-corrosion stainless steel hardware
- Heavy duty one piece die-cast aluminum housing with external heatsink for optimal thermal management
- Fixture comes standard in bronze. Black and white fixture housing available

### **Additonal Options**

- Multiple mounting options
- Light shield kit options

### Electrical

- Available in 120v-277v and 277v-480v
- Factory wired for full dimming (0-10v)
- 10kV/5kA Surge Protection standard. 20kV/10kA surge protection available
- Optional 12v DC auxiliary power provided with 7-pin NEMA receptacle
- Power Factor > .90\*

• Total Harmonic Distortion < 20%\* \*Note: Varies based on option

### **Control and Sensor Options**

- Factory installed 7-pin photocell receptacle for filed installation of photocell
- Photo control and occupancy sensor options
- Field or factory installed control and sensor options
- Remote Programming Sensors
- Onsite Network Programming Controls
- Internet/Cloud Based Network
  Programming Controls

### Lumen Maintenance

See Lumen Maintenance Table on page 2

### Fixture Certification & Listings

- UL/cUL Listed for Wet Locations
- RoHS Compliant Components
- IK10 Impact Rating
- Fixture is IP67 Rated
- Fixture with Sensor is IP65 Rated
- 3.0 G Vibration load rating per ANSI C136.31
- Dark Sky Approved. 3000K CCT with fixed mounts only
- Title 24 Compliancy when using optional sensor
- DesignLights Consortium premium qualified product
- Visit the <u>DLC QPL</u> for listed models

### Warranty

See Orion's <u>Product Limited Warranty</u> for more details and information

## Performance Information, 277v, $\geq 80$ CRI, $4000K^1$

		Тур	e V		Type IV			Туре III					
Nominal Lumen Code	Actual Lumens	Wattage	LPW	BUG Rating	Actual Lumens	Wattage	LPW	BUG Rating	Actual Lumens	Wattage	LPW	BUG Rating	Input Current
A1	12,630lm	76w	165	B4-U0-G2	12,122lm	76w	159	B3-U0-G2	12,587lm	76w	165	B3-U0-G2	0.27A
B1	18,252lm	111w	164	B4-U0-G2	17,518lm	111w	158	B3-U0-G3	18,190lm	111w	164	B3-U0-G3	0.40A
C1	22,186lm	139w	160	B5-U0-G3	21,294lm	139w	153	B3-U0-G3	22,111lm	139w	159	B3-U0-G3	0.50A
D1	29,516lm	176w	168	B5-U0-G4	28,329lm	176w	161	B3-U0-G4	29,416lm	176w	167	B4-U0-G3	0.63A
E1	32,875lm	191w	172	B5-U0-G4	31,554lm	191w	165	B3-U0-G4	32,765lm	191w	171	B4-U0-G4	0.69A
F1	37,219lm	221w	169	B5-U0-G4	35,723lm	221w	162	B4-U0-G4	37,094lm	221w	168	B4-U0-G4	0.80A
G1	49,402lm	288w	171	B5-U0-G5	47,416lm	288w	164	B4-U0-G5	49,236lm	288w	171	B4-U0-G4	1.04A
H1	64,890lm	400w	162	B5-U0-G5	62,281lm	400w	156	B4-U0-G5	64,671lm	400w	162	B4-U0-G5	1.45A

### Lumen Maintenance<sup>2</sup>

Series	Nominal	Nominal Lumens	Operating		Calculated Lumen Maintenance								
Series	Lumen Code	NOTITIAL LUTTERIS	Temperature	L70	L80	L90							
IAHP1	A1	13,000	25°C	153,000	95,000	45,000							
ΙΑΠΡΙ	AI	13,000	50°C	153,000	95,000	45,000							
IAHP1	B1	19,000	25°C	153,000	95,000	45,000							
ІАПРІ	ы	19,000	50°C	153,000	95,000	45,000							
IAHP1	C1	23,000	25°C	150,000	95,000	45,000							
IANPI	CI	23,000	50°C	135,000	85.000	40,000							
IAHP1	D1	D1	D1	D1	D1	D1	D1	D1	31,000	25°C	150,000	95,000	45,000
IANPI	וט	51,000	50°C	150,000	95,000	45,000							
IAHP1	<b>C1</b>	24.000	25°C	153,000	95,000	45,000							
IANPI		E1 34,000	50°C	153,000	95,000	45,000							
IAHP1	Γ1	<b>E1</b>	<b>F1</b>	F1	<b>L</b> 1	38,000	25°C	153,000	97,000	45,000			
IANPI	ГІ	38,000	50°C	148,000	93,000	45,000							
IAHP1	G1	48.000	25°C	153,000	97,000	45,000							
ΙΑΠΕΙ	ai	48,000	50°C	127,000	80,000	38,000							
IAHP1	H1	63,000	25°C	153,000	96,000	45,000							
IATEL	111	03,000	45°C	120,000	75,000	40,000							

## Additional Specification Information

 $^{\rm 1}$  Actual performance may vary by up to  $\pm 10\%$  of values listed; facility factors and fixture options can affect performance values

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

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## Fixture Dimensions and Physical Information

Lumen Code	Length	Height	Width	Weight <sup>3</sup>	EPA (side) Using Slipfitter
A1/B1/C1	16.50"	2.20"	10.60"	9.00 lbs	.32 ft <sup>2</sup>
D1/E1/F1	20.30"	2.20"	13.70"	13.00 lbs	.36 ft <sup>2</sup>
G1/H1	23.00"	3.00"	14.10"	22.00 lbs	.50 ft <sup>2</sup>







## Ambient Operating Temperature Range

Lumen Code	Standard Operating Ambient Temperature Range				
A1/B1/C1/D1/E1/F1/G1	-40°C to 50°C (-40°F to 122°F)				
H1	-40°C to 45°C (-40°F to 113°F)				

Sensor Type	Operating Temperature Range				
EN×	-35°C to 50°C (-31°F to 122°F)				
WBxx	-40°C to 50°C (-40°F to 122°F)				

## Additional Specification Information

<sup>3</sup> Weight will vary based on option selection

# Ordering Information Example (NOTE: No dashes or spaces unless noted below) IAHP1C1UNVFD850BRT5-SP

## Ordering Information (Enter Selected Catalog Number Below)

0				0					
Series	Nominal Lumen Code	Voltage	Driver Type	CRI; Color Temp	Fixture Color	Light Distribution	Fixture Options*	Factory Installed Control Options	Packaging
Series	Nominal Lumen Code⁴	Voltage	Driver Type	CRI; Color Temp	Fixture Color	Light Distribution	Fixture Options*	Factory Installed Control Options	Packaging
IAHP1= ISON LED Area Light High Performance, Gen 1	A1= 13,000lm B1= 19,000lm C1= 23,000lm D1= 31,000lm E1= 34,000lm F1= 38,000lm <sup>5</sup> H1= 63,000lm <sup>5</sup>	UNV= 120v-277v HMV= 277v-480v	FD= Full Dimming	830= 80CRI; 3000K <sup>6</sup> 840= 80CRI; 4000K 850= 80CRI; 5000K	BR= Bronze BL= Black <sup>6</sup> WH= White <sup>6</sup>	<b>T3</b> = Type III <b>T4</b> = Type IV <b>T5</b> = Type V	(Blank)= No Option TS2= 20kV/10kA Surge Protection 7R01= 3/5/7-Pin Universal NEMA Receptacle <sup>9</sup> * 7R02= 7 Pin NEMA Receptacle (with 12v power source) <sup>9</sup> *	[See below for part numbers and descriptions]	-SP= Single Pack

\*Note: Universal NEMA 7-Pin receptacle used. See Page 5 for Photocell options.

## Sensor and Controls Ordering Information

Factory Installed Control Options

#### (Blank)=

No Control Options

### IP66 Rated

### <u>WBxx</u>=

PIR Occupancy Sensor, HIGH/LOW/OFF, 0-10V Dimming, Switching Photocell, Bluetooth, Mobile App Programmable, 360° 57.89

### <u>IP65 Rated</u>

#### <u>EN2</u>=

Enlighted Connected Lighting Sensor: Network Lighting Control Component, PIR Occupancy Sensor, Daylight Harvesting, High End Trim, Dimming Modes, Luminaire Level Lighting Control, Wireless Zones, Modified IEEE 802.15.4.1, BLE Radio, Temperature Sensor, Scene Control, Demand Response, Data Collection, BMS Integration, Cloud Access\*\*<sup>5.7,9</sup>

<u>EN3</u>=

Enlighted IoT: All Features of EN2 - PLUS access to Apps: Space Management, Asset Tracking, and Contact Tracing Apps\*\*5.79

\*\*Note: For IoT cloud based and network systems See Page 5.

## Additional Specification Information

<sup>4</sup> For actual lumens, see performance table

 $^{\rm 5}$  H1 and G1 lumen packages are not compatible with WBxx or ENx sensor options

<sup>6</sup> Special order option, lead times vary

<sup>7</sup> For more information about these options go to our <u>controls landing page</u>

 $^{8}$  "xx" in part number is a place holder for lens height of sensor. Either "20" or "40" can be included at the end of the part number to replace the "xx" placeholder

<sup>9</sup> WBxx and ENx cannot be used with 7R01 and 7R02 receptacles. WBxx and ENx have photocell capabilities

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## Fixture Options (Factory Installed)



(WBxx)

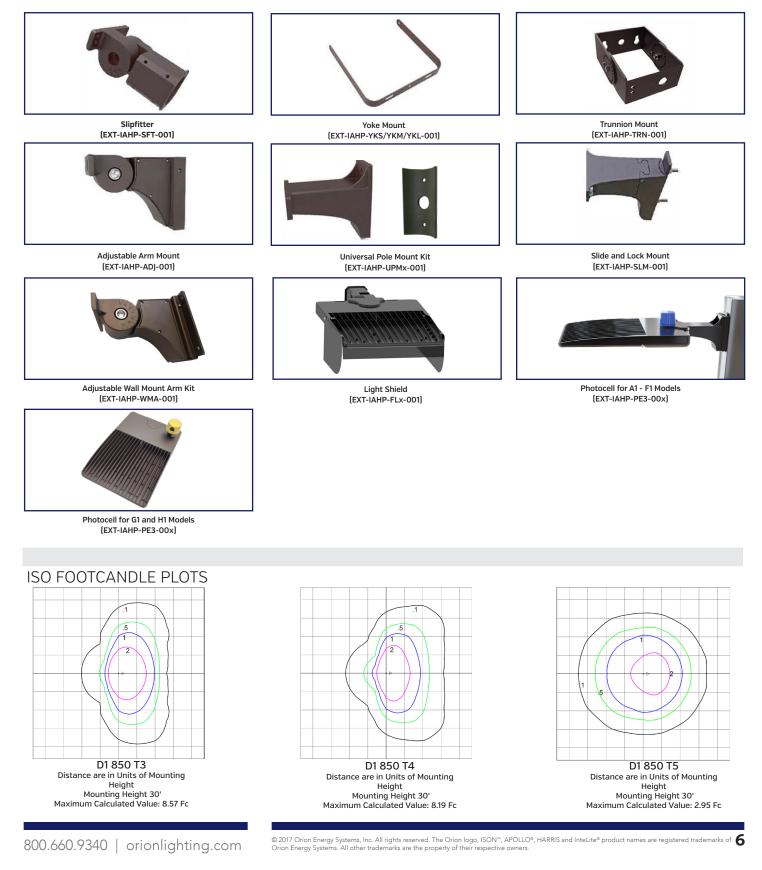
## Accessories (Sold Separately - Field Installed)

	Mounting Options		Control Options*		
EXT-IAHP-SFT-001	Bronze Slip-fitter, 2-3/8" Tenons	EXT-IAHP-PE3-001	Twist-lock Photocell On/Off Daylight Sensing Only, 120- 277y		
XT-IAHP-YKS-001	Bronze Yoke Mount, A1/B1/C1	EXT-IAHP-PE3-002	Twist-lock Photocell On/Off Daylight Sensing Only, 347v		
EXT-IAHP-YKM-001	Bronze Yoke Mount, D1/E1/F1		. , 5 5 ,.		
EXT-IAHP-YKL-001	Bronze Yoke Mount, G1/H1	EXT-IAHP-PE3-003	Twist-lock Photocell On/Off Daylight Sensing Only, 480v		
EXT-IAHP-TRN-001	Bronze Trunnion Mount, Min. 5.5" Square Pole	EXT-IAHP-SHC-001	Shorting Cap		
EXT-IAHP-ADJ-001	Bronze Adjustable Arm, Min. 4" Square Pole	*Note: When ordering f factory ordering inform	ield installed control options, <b>7R01</b> or <b>7R02</b> needs to be selected in the ation on Page 4.		
EXT-IAHP-UPM-001	Bronze Universal Pole Mount Min. 3" Square or 4" Round Pole Kit				
	Bronze Universal Pole Mount Min. 3" Square or 5" Round Pole	IoT Wireless Control Solutions*			
EXT-IAHP-UPM5-001	Kit	FYBR	IoT 7-Pin Intelligent Photocell Control System		
EXT-IAHP-UPM6-001	Bronze Universal Pole Mount Min. 3" Square or 6" Round Pole	NEDAP	IoT 7-Pin Smart Photocell Control System		
	Kit	Enlighted (EN2/EN3)	IoT Sensor Based Control System		
XT-IAHP-SLM-0016	Bronze Slide and Lock, Min. 3" Square or 3-4" Round Pole	*Note: Systems require	additional hardware and software to function for connectivity to local		
EXT-IAHP-WMA-001	Bronze Adjustable Wall Mount Arm Kit	building and cloud based systems. For more information contact your Orion Representative about special order information, quoting and commissioning.			
	Light Shield Options	about special order init	ormation, quoting and commissioning.		
EXT-IAHP-BLS-001	Bronze Back Light Shield, Small, A1/B1/C1				
EXT-IAHP-FLS-001	Bronze Back and Sides Light Shields, Small, A1/B1/C1				
EXT-IAHP-BLM-001	Bronze Back Light Shield, Medium, D1/E1/F1	-			
EXT-IAHP-FLM-001	Bronze Back and Sides Light Shields, Medium, D1/E1/F1				
EXT-IAHP-BLL-001	Bronze Back Light Shield, Large, G1/H1				
EXT-IAHP-FLL-001	Bronze Back and Sides Light Shields, Large, G1/H1				

Additional Specification Information

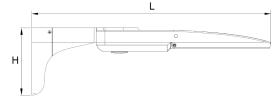
<sup>6</sup> Special order option, lead times vary

### Accessories (Field Installed)

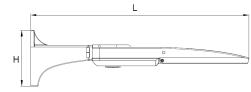


## Fixture with Mounting Dimensions and Physical Information

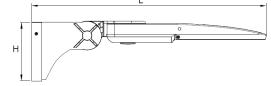
Slide and Lock Mount (EXT-IAHP-SLM)



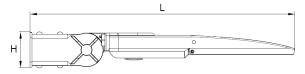
Universal Pole Mount (EXT-IAHP-UPM)



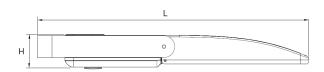
Adjustable Arm Mount (EXT-IAHP-ADJ) Adjustable Wall Mount (EXT-IAHP-WMA)



Slipfitter Mount (EXT-IAHP-SFT)



Yoke Mount (EXT-IAHP-YKx)



Trunnion Mount (EXT-IAHP-TRN)



Lumen Code	Length	Height	Width	Weight	EPA (side @ 0°)		
A1/B1/C1	22.68"	6.53"	10.60"	12 lbs	.33 ft <sup>2</sup>		
D1/E1/F1	26.38"	6.53"	13.70"	16 lbs	.37 ft <sup>2</sup>		
G1/H1	28.19"	6.53"	14.10"	25 lbs	.51 ft <sup>2</sup>		
Note: Thi	Note: This mounting kit can adapt to 3"-4" round or min. 3" square pole						

Lumen Code	Length	Height	Width	Weight	EPA (side @ 0°)	
A1/B1/C1	23.31"	6.70"	10.60"	13 lbs	.38 ft <sup>2</sup>	
D1/E1/F1	27.01"	6.70"	13.70"	17 lbs	.31 ft <sup>2</sup>	
G1/H1	28.82"	6.70"	14.10"	26 lbs	.56 ft <sup>2</sup>	
Note: This mounting kit can adapt to 4"/5"/6" round or min. 3" square pole.						

Lumen Code	Length	Height	Width	Weight	EPA (side @ 0°)			
A1/B1/C1	25.20"	6.40"	10.60"	11.5 lbs	.40 ft <sup>2</sup>			
D1/E1/F1	28.03"	6.40"	13.70"	15.5 lbs	.44 ft²			
G1/H1	30.71"	6.40"	14.10"	24.5 lbs	.58 ft²			
Note	Note: The arm mount [EXT-IAHP-ADJ] can only adapt to min. 4" square pole.							

Lumen Code	Length	Height	Width	Weight	EPA_(side @ 0°)		
A1/B1/C1	23.62"	3.07"	10.60"	11.5 lbs	.32 ft <sup>2</sup>		
D1/E1/F1	27.32"	3.07"	13.70"	15.5 lbs	.36 ft <sup>2</sup>		
G1/H1	29.13"	3.07"	14.10"	24.5 lbs	.50 ft <sup>2</sup>		
Note: This slipfitter can adapt to 2-3/8" tenons.							

Lumen Code	Length	Height	Width	Weight	EPA (side @ 0°)
A1/B1/C1	18.83"	2.20"	10.60"	11.5 lbs	.42 ft <sup>2</sup>
D1/E1/F1	21.94"	2.20"	13.70"	15.5 lbs	.35 ft <sup>2</sup>
G1/H1	24.55"	3.00"	14.10"	24.5 lbs	.51 ft²

Lumen Code	Length	Height	Width	Weight	EPA (side @ 0°)	
A1/B1/C1	23.44"	2.80"	10.60"	12.5 lbs	.32 ft <sup>2</sup>	
D1/E1/F1	27.16"	2.80"	13.70"	16.5 lbs	.36 ft <sup>2</sup>	
G1/H1	28.98"	3.30"	14.10"	25.5 lbs	.50 ft <sup>2</sup>	
Note: This mounting kit can adapt to min. 5.5" square pole.						

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