

DESCRIPTION

The Iridium i2 WaveStream™ luminaire incorporates cutting-edge technology in a classic curvilinear shape to provide quality illumination with superior optical control. Using the WaveStream LED direct/indirect light engine, its wide batwing distribution makes it an excellent choice for lower ceiling applications and areas where ceiling uniformity is important. Stringent building energy requirements are also met effortlessly with five standard output levels and efficacy up to 120 lumens per watt. Available in 4' and 8' sections with a multitude of options, the Iridium i2 WaveStream is well suited for commercial office spaces, schools, libraries and other architectural interiors.

SPECIFICATION FEATURES

Construction

Housing is one piece die-formed cold rolled steel, forming a 9" x 2-1/2" curved profile. Modular 4'-0" and 8'-0" sections combine for continuous runs.

End Caps

Standard Straight and optional Beveled end caps are precision die-cast aluminum mechanically attached without exposed fasteners. Straight end cap adds 6" at each end. Beveled end cap adds 2" at each end.

Shielding

Bottom lens is a high light transmission 0.08" thick linear prismatic frosted acrylic material.

Optics

Precision formed optical assembly with optical grade acrylic

lenses provide an ideal direct/indirect optical distribution using WaveStream technology. Low voltage WaveStream LED light engine is field-replaceable.

Electrical

Long-Life LED system coupled with electronic driver to deliver optimal performance. Projected life is 100,000 hours at 81% lumen output. LEDs are available in 3000K, 3500K or 4000K with a typical CRI ≥ 85. Standard drivers are 0-10 volt continuous dimming that work with any 0-10V control/dimmer. Or, specify Digital Addressable Lighting Interface (DALI) drivers; for use with Fifth Light controls. See ordering information for details.

Mounting

Standard aircraft cable mounts on 4'-0", 8'-0" and 12'-0" centers. Refer to installation instructions for various ceiling interface details.

Finish

Fixture housings are high reflectance white using electrostatically applied polyester powder coat paint.

Compliance

Components are UL recognized and luminaires are cULus listed for 25°C ambient environments, damp location listed, and RoHS compliant. DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.

Warranty

Five-year warranty.



i2

Frosted Lens

WaveStream™ LED

Suspended

Direct/Indirect

CERTIFICATION DATA
cULus - 1598
Damp Location Listed
LM79/LM80 Compliant
ROHS Compliant
DesignLights Consortium™ Qualified

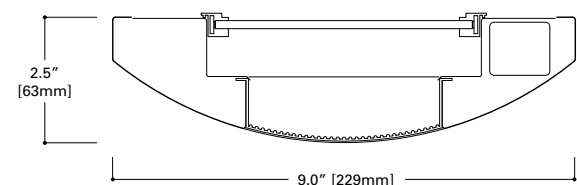


LumaWatt Pro

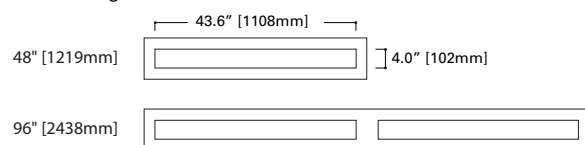
Wireless sensing & control system with **enlighted**



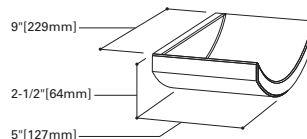
powered by **fifthlight** technology



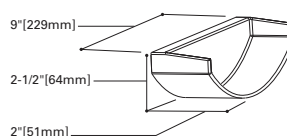
Fixture Lengths



Standard Straight End Cap



Beveled End Cap



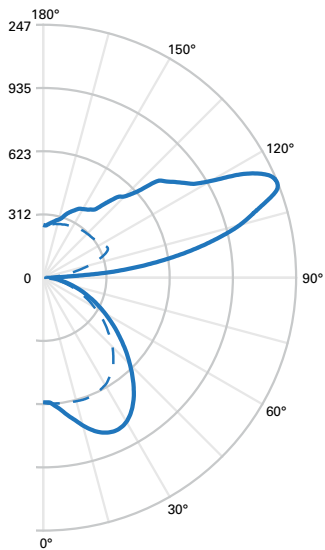
ORDERING INFORMATION

Sample Number: I2-WS-3L35-1D-UNV-AC48-T1-56-STD-W-ES

Series	Optics	Light Level (per 4' section, 3500K)	Color Temperature	Number of Circuits	Wiring	Input Voltage	Suspension/ Power Feed
I2 = Iridium i2 Suspended	WS = WaveStream with linear prismatic frosted lens	1 = Light Level 1 (2,963 Lms, 26.1W) 2 = Light Level 2 (3,697 Lms, 35.5W) 3 = Light Level 3 (4,912 Lms, 46.3W) 4 = Light Level 4 (6,075 Lms, 63.7W) 5 = Light Level 5 (7,214 Lms, 79.2W)	L30 = LED 3000K L35 = LED 3500K L40 = LED 4000K	1 = 1 Circuit	C = Switched Circuit ⁽¹⁾ D = Dimming ⁽¹⁾⁽²⁾ B = Battery Pack ⁽³⁾ E = Emergency Circuit T = Nightlight Y = Daylight	UNV = Universal (120V-277V) 347 = 347V ⁽⁴⁾	AC = Aircraft cable with straight power cord
Suspension Length	Ceiling Type	Run Length	Driver/Dimming Options	Integral Sensor (Optional)	Distribution Modifier Kit (DM Kit)	Finish	End Cap
Adjustable Cable 48", 120", 240", 300", or 360"	T1 = 1" T-Bar T9 = 9/16" T-Bar TS = Slotted T-Bar ST = Structure JB = 4" Octagonal J-Box	4 = 4 ft 8 = 8 ft XX = Specify Row Length ⁽⁵⁾	STD = Standard 0-10V (10%-100%) HCD = 0-10V (1%-100%) ⁽⁷⁾ 5LT = Fifth Light DALI ⁽⁶⁾⁽⁸⁾ (10%-100%) STP = Step Dimming ⁽⁹⁾ (Bi-Level, 40%) SR = Sensor Ready (5%-100%)	SVPD1 = Integrated Occupancy/ Daylight Sensor for Local Control ⁽¹⁰⁾⁽¹³⁾ LWIPD1 = Lumawatt Pro Wireless Integral Sensor ⁽¹¹⁾⁽¹³⁾ SWPD1 = WaveLinx Wireless Integral Sensor ⁽¹²⁾⁽¹³⁾	(blank) = Std. 50% up / 50% down DM5 = 40% up / 60% down DM8 = 70% up / 30% down <i>Nominal distributions. Refer to photometric tests for exact distributions</i>	W = White S = Silver CC = Custom Color	ES = Straight End Cap (Standard) EB = Beveled End Cap

See page 3 for technical notes

PHOTOMETRICS



FILE NAME: I2-WS-3L35-1D-UNV-4-STD.IES

LAMP: (LD1) LED 3500K

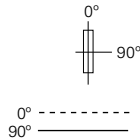
LUMENS: 4912 Lm

WATTS: 46.3

EFFICACY: 106 Lm/W

TEST NO.: P183743

52% UP / 48% DOWN

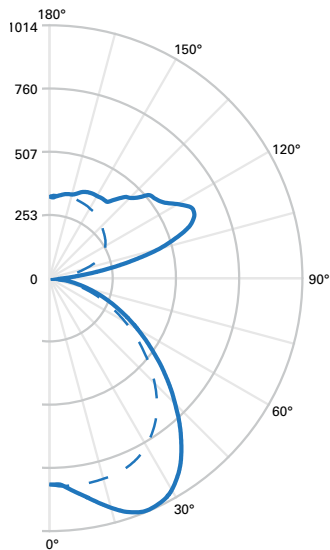


ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	601	12.2
0°-90°	2341	47.7
90°-130°	1744	35.5
90°-180°	2571	52.3
0°-180°	4912	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	5485	6645	6486
55°	5011	5910	5587
65°	4384	5004	4724
75°	3702	4024	3889
85°	3061	3248	3357



FILE NAME: I2-WS-3L35-1D-UNV-4-STD-DM5.IES

LAMP: (LD1) LED 3500K

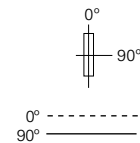
LUMENS: 4679 Lm

WATTS: 46.3 W

EFFICACY: 101 Lm/W

TEST NO.: P183758

39% UP / 61% DOWN

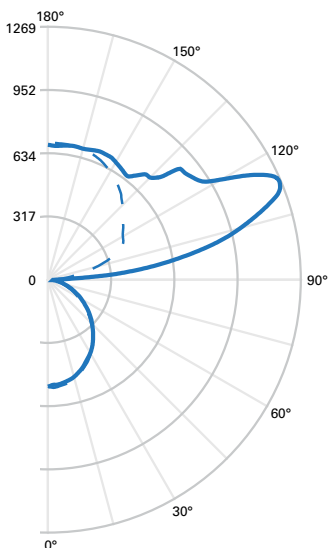


ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	761	16.3
0°-90°	2856	61.1
90°-130°	1000	21.4
90°-180°	1822	38.9
0°-180°	4679	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	6841	7926	7726
55°	6188	7010	6624
65°	5427	5908	5617
75°	4553	4815	4639
85°	3428	3861	4114



FILE NAME: I2-WS-3L35-1D-UNV-4-STD-DM8.IES

LAMP: (LD1) LED 3500K

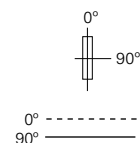
LUMENS: 4739 Lm

WATTS: 46.3 W

EFFICACY: 102 Lm/W

TEST NO.: P183728

71% UP / 29% DOWN



ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	407	8.6
0°-90°	1375	29
90°-130°	1907	40.2
90°-180°	3364	71
0°-180°	4739	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	3488	3457	3380
55°	3095	3078	3034
65°	2676	2648	2644
75°	2247	2210	2294
85°	1801	1960	2165

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (100,000 hours)	Theoretical L70 (Hours)
25°C	>81%	181,000

ENERGY AND PERFORMANCE DATA

4' – i2 WaveStream Light Level Outputs and Distributions (3500K)						
Series	Light Level	Delivered Lumens	Wattage	Efficacy (LPW)	Distribution	
					% Up	% Down
i2-WS	1	2963	26.1	114	50%	50%
	2	3697	35.5	104		
	3	4912	46.3	106		
	4	6075	63.7	95		
	5	7214	79.2	91		
i2-WS w/ DM5	1	2822	26.1	108	40%	60%
	2	3521	35.5	99		
	3	4679	46.3	101		
	4	5787	63.7	91		
	5	6872	79.2	87		
i2-WS w/ DM8	1	2859	26.1	110	70%	30%
	2	3567	35.5	100		
	3	4739	46.3	102		
	4	5862	63.7	92		
	5	6961	79.2	88		

TECHNICAL NOTES

1. Dimming wires come standard in all LED fixtures but can be capped in the field for standard switched operation.
2. When dimming is selected, a separate drop for low voltage control wires supplied as standard. A single drop may be supplied upon request.
3. For approximate delivered lumens, take lumens per watt of desired fixture and multiply by 12 watts (100 lp/W x 12 = 1200 lumens delivered).
4. Integral 347V electronic driver with STD 0-10V option only. Two drivers required for Light Level 5. Factory supplied remote transformer for all other driver/dimming options.
5. Standard row configurations over 8' consist of 4' and 8' luminaires.
6. Must be used in conjunction with a DALI control system. For a complete listing of Fifth LightTechnology products and other solutions from Cooper Lighting Solutions, visit www.cooperlighting.com.
7. Two HCD drivers required per 4' section for Light Levels 4 and 5.
8. Two Fifth Light (5LT) drivers required per 4' section for Light Level 5.
9. Step-dim not available in Light Level 1. Two step-dim drivers required per 4' section for Light Level 5.
10. SV sensor works only with 0-10V drivers and is factory prewired to the driver for stand-alone control. Individual fixtures only. Order #ISHH-01 for Programming Remote and #ISHH-02 for Personal Control Remote.
11. LWI sensor requires use of SR driver. Must be used in conjunction with a LumaWatt Pro control system. For complete LumaWatt Pro wireless solutions, visit www.cooperlighting.com.
12. SW sensor works only with STD and HCD 0-10V drivers. Designed for use with the WaveLinX Wireless Connected Lighting system. For complete WaveLinX wireless solutions, visit www.cooperlighting.com.
13. Integrated Sensors combined with Emergency Circuit require one UL924 Bypass Relay per emergency section to disable sensor control when normal power is lost.

SVPD1 INTEGRATED SENSOR

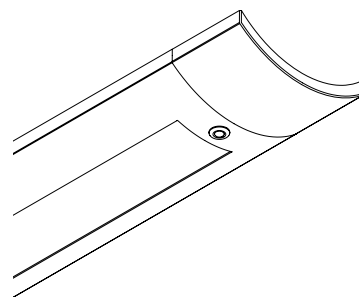
The Iridium with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The Iridium delivers superior lighting with integrated PIR occupancy sensing and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the Iridium delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

The integral daylight sensors reduce the need for special daylight zone planning. The luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

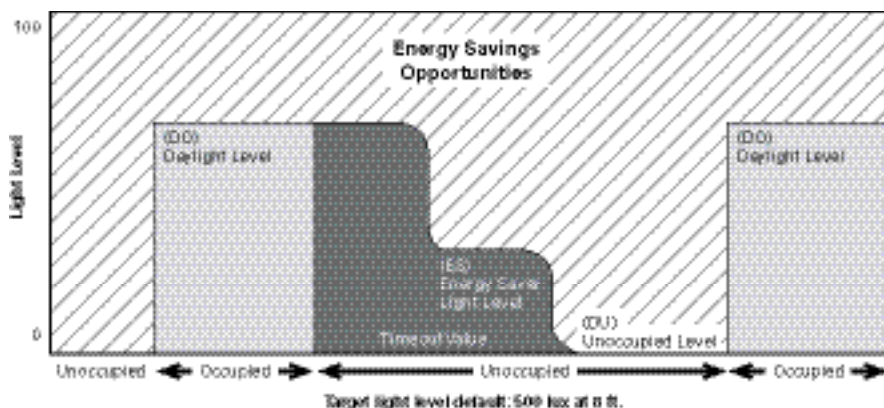
Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The Iridium with Integrated Sensors is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

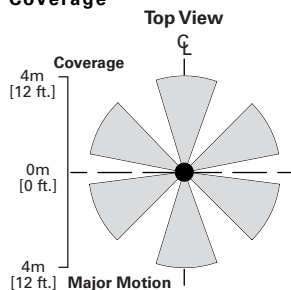


How it works:

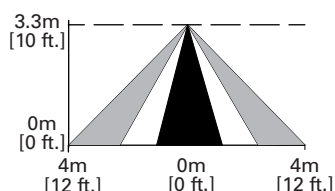
- When a user enters under an integral sensor, the luminaire controlled by that sensor turns ON to the daylight level (default 500 lux).
- Lighting will remain at the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level (default matches occupied daylight level). This adjustable light level is often set to half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.



Coverage



Side View



Recommended Mounting Height 8-12 ft.

Optional Remote Controls



ISHH-01 Programming Remote



ISHH-02 Personal Control Remote