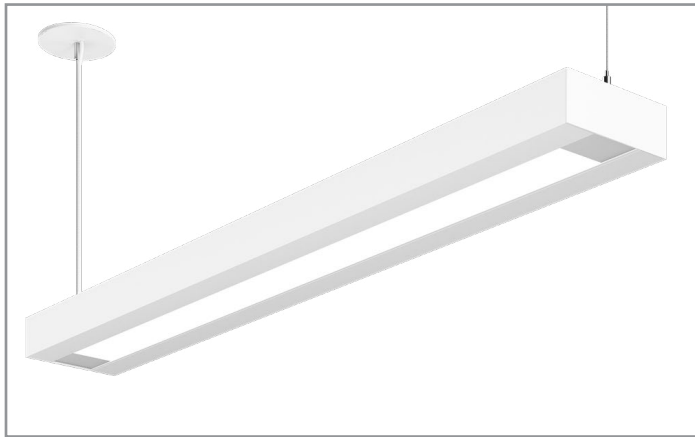


Project		Catalog #		Type	
Prepared by		Notes		Date	



## Corelite

### Element E2

WaveStream™ LED  
Suspended  
Direct / Indirect

#### Typical Applications

• Office • Education • Healthcare • Hospitality • Retail

#### Interactive Menu

- Order information page 2
- Product Specifications page 3
- Photometric Data page 4
- Energy and Performance Data page 4
- Control Systems page 5
- Product Warranty

#### Product Certification



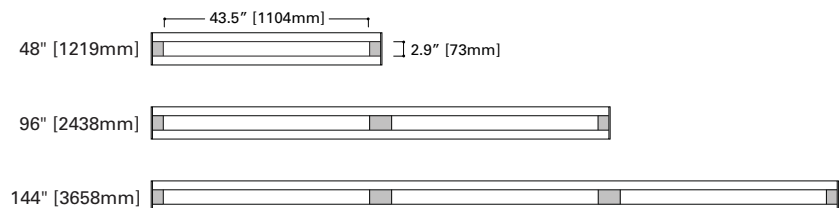
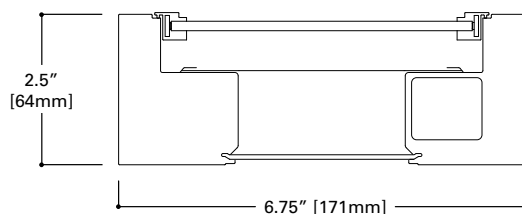
#### Product Features



#### Top Product Features

- Powered by WaveStream LED light engine; Architectural quality construction
- Superior optical control with multiple up / down distributions; Low-glare smooth frosted lens
- Controlled wide batwing distribution for ceiling uniformity; Ideal for lower ceiling applications
- Available in 4', 8' and 12' and continuous runs; Integral daylight/occupancy sensor option
- Five standard light output levels; Up to 116 lumens per watt

#### Dimensions and Fixture lengths



## Order Information

SAMPLE ORDER NUMBER: E2-WS-3L35-1D-UNV-AC48-T1-56-STD-DM8-W

Series	Optics	Light Level (per 4' section, 3500K)	Color Temperature	Number of Circuits	Wiring	Input Voltage	Suspension/Power Feed
Series	Optics	Light Level (per 4' section, 3500K)	Color Temperature	Number of Circuits	Wiring	Input Voltage	Suspension/Power Feed
E2=Element Suspended	WS=WaveStream with frosted lens	1=Light Level 1 (3,019 Lms, 26.1W) 2=Light Level 2 (3,767 Lms, 35.5W) 3=Light Level 3 (5,005 Lms, 46.3W) 4=Light Level 4 (6,190 Lms, 63.7W) 5=Light Level 5 (7,351 Lms, 79.2W)	L30=LED 3000K L35=LED 3500K L40=LED 4000K	1=1 Circuit	C=Switched Circuit <sup>(1)</sup> D=Dimming <sup>(1),(2)</sup> B=Battery Pack <sup>(3)</sup> E=Emergency Circuit T=Nightlight Y=Daylight	UNV=Universal (120V-277V) 347=347V <sup>(4)</sup>	AC=Aircraft cable with straight power cord
					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).	Notes (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.	

Suspension Length	Ceiling Type	Run Length	Driver/Dimming Options	Integral Sensor (Optional)	Distribution Modifier Kit (DM Kit)	Finish
Suspension Length	Ceiling Type	Run Length	Driver/Dimming Options	Integral Sensor (Optional)	Distribution Modifier Kit (DM Kit)	Finish
Adjustable Cable 48", 120", 240", or 360"	T1=15/16" T-Bar T9=9/16" T-Bar TS=Slotted T-Bar JB=Junction Box / Structure UM=Universal Ceiling Kit (T1, T9, JB) _S=Swivel at Cancopy (_=T1, T9, TS or JB)	4=4 ft 8=8 ft 12=12 ft XX=Specify Row Length <sup>(5)</sup>	STD=Standard 0-10V (10%-100%) HCD=0-10V (1%-100%) <sup>(7)</sup> 5LT=5th Light DALI (10%-100%) <sup>(6),(8)</sup> STP=Step Dimming (40%, 100%) <sup>(9)</sup> SR=Sensor Ready (5%-100%)	SVPD1=Integrated Occupancy/ Daylight Sensor for Local Control <sup>(10),(13)</sup> LWIPD1=Enlighted Wireless Integral Sensor <sup>(11),(13)</sup> WAA=WaveLinX Wireless Integral Sensor <sup>(12),(13)</sup>	(blank)=Std. 65% up / 35% down DM5=50% up / 50% down DM8=80% up / 20% down  Nominal distributions. Refer to photometric tests for exact distributions	W=White S=Silver CC=Custom Color
	Notes UM mounting accomodates 15/16" Grid, 9/16" Grid, 4" Octagonal J-Box, and Structure - Adder applies. White mounting hardware standard; for black mounting hardware, add "B" after ceiling type.	Notes (5)Standard row configurations over 12' consist of 8' and 12' luminaires.	Notes (6)Must be used in conjunction with a DALI control system. For a complete listing of Fifth Light Technology products and other solutions from Cooper Lighting Solutions, visit <a href="https://acc.cooperlighting.com/global/brands/fifth-light.html">https://acc.cooperlighting.com/global/brands/fifth-light.html</a> (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.	Notes (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 Enlighted wireless solutions, visit <a href="https://www.cooperlighting.com/content/dam/cooper-lighting/brands/corelite/spec-sheets/corelite-lumawattpro-sensors-524041-sss.pdf">https://www.cooperlighting.com/content/dam/cooper-lighting/brands/corelite/spec-sheets/corelite-lumawattpro-sensors-524041-sss.pdf</a> . (12)WAA sensor works only with STD and HCD 0-10V drivers. Designed for use with the WaveLinX Wireless Connected Lighting system. SWPD1 has been renamed to WAA, but remains the same sensor. For complete WaveLinX wireless solutions, visit <a href="https://www.cooperlighting.com/global/brands/wavelinx.html">https://www.cooperlighting.com/global/brands/wavelinx.html</a> . (13)Integrated Sensors combined with Emergency Circuit require one UL924 Bypass Relay per emergency section to disable sensor control when normal power is lost.		

## Product Specifications

### Construction

- Extruded aluminum housing
- 6-3/4" x 2-1/2" rectilinear profile.

### End Caps

- Standard laser cut 14-gauge cold rolled steel
- Mechanically attached with no exposed fasteners
- End caps add 1/8" at each end

### Lengths

- Modular 4'-0", 8'-0" and 12'-0" sections
- Combine sections for continuous runs

### Finish

- High reflectance, electrostatically applied, White polyester powder coat paint
- White, Silver and RAL custom colors are available

### Mounting

- Standard aircraft cable mounts on 4'-0", 8'-0" and 12'-0" centers (refer to installation instructions for various ceiling interface details)
- Adjustable cable suspension lengths include 48", 120", 240", 300" or 360"

### Shielding/Optics

- Bottom lens is a high light transmission 0.08" thick frosted acrylic material
- Precision formed optical assembly with optical grade acrylic lenses
- Direct / Indirect optical distribution using WaveStream technology
- Low-voltage WaveStream LED light engine is field-replaceable
- Standard distribution 65% up / 35% down
- Distribution Modification Kit for 50% up / 50% down (DM5) or 80% up / 20% down (DM8)

### LED and Light Engine

- LEDs are available in 3000K, 3500K and 4000K
- Typical CRI  $\geq 85$
- Five light level choices (see ordering information for details)
- Projected life is 100,000 hours at 81% lumen maintenance
- Electronic driver 120-277V dimming driver standard; Available with 347V optional driver
- 0-10V continuous dimming down to 10%; Works with any 0-10V control / dimmer
- Optional dimming driver down to 1%
- Digital Addressable Lighting Interface (DALI) driver options for use with Fifth Light controls (see ordering information for all driver options)

### Integrated Controls

- WaveLinx sensor compatible for IoT capability
- Enlighted sensor compatible for IoT capability
- Integrated Occupancy / Daylight sensor for local control

### Emergency Options

- Optional 120-277V emergency battery available in 12W
- 90 minute output, and powers a 4-foot section
- Test switch/indicator button located on the top side of the luminaire
- Approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 12 = 1200 lumens)
- The combination of integrated sensor and emergency circuit options require an EPC UL924 bypass relay that disables sensor control of emergency fixtures when normal power is lost

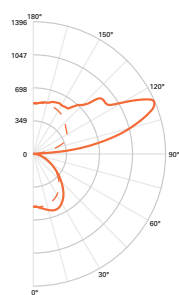
### Compliance

- cULus listed for damp locations and 25°C ambient environments
- Tested to IESNA LM-79 and LM-80
- RoHS compliant
- Stated life per TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire
- DesignLights Consortium™ Qualified and classified for DLC Standard (refer to [www.designlights.org](http://www.designlights.org) for details)

### Warranty

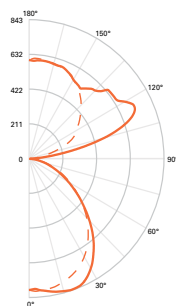
- Five-year warranty standard. Optional ten year warranty available. [www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

## Photometric Data

[View IES files](#)


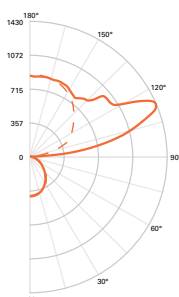
**FILE NAME:**  
**E2-WS-3L35-1D-UNV-4-STD.IES**  
**CCT:** (LD1) LED 3500K  
**LUMENS:** 5005 Lm  
**WATTS:** 46.3 W  
**EFFICACY:** 108 Lm/W  
**TEST NO.:** P183488  
 65% UP / 35% DOWN

0° (H) ———— 0°  
 90° (L) ———— 90°



**FILE NAME:**  
**E2-WS-3L35-1D-UNV-4-STD-DM5.IES**  
**CCT:** (LD1) LED 3500K  
**LUMENS:** 4681 Lm  
**WATTS:** 46.3 W  
**EFFICACY:** 101 Lm/W  
**TEST NO.:** P183548  
 51% UP / 49% DOWN

0° (H) ———— 0°  
 90° (L) ———— 90°



**FILE NAME:**  
**E2-WS-3L35-1D-UNV-4-STD-DM8.IES**  
**CCT:** (LD1) LED 3500K  
**LUMENS:** 4876 Lm  
**WATTS:** 46.3 W  
**EFFICACY:** 105 Lm/W  
**TEST NO.:** P183428  
 80% UP / 20% DOWN

0° (H) ———— 0°  
 90° (L) ———— 90°

## Energy and Performance Data

4' - E2 WaveStream Light Level Outputs and Distributions (3500K)					
Series	Light Level	Delivered Lumens	Wattage	Efficacy LPW	Distribution
					% Up % Down
E2-WS	1	3019	26.1	116	65% 35%
	2	3767	35.5	106	
	3	5005	46.3	108	
	4	6190	63.7	97	
	5	7351	79.2	93	
E2-WS w/ DM5	1	2824	26.1	108	51% 49%
	2	3524	35.5	99	
	3	4681	46.3	101	
	4	5790	63.7	91	
	5	6876	79.2	87	
E2-WS w/ DM8	1	2941	26.1	113	80% 20%
	2	3670	35.5	103	
	3	4876	46.3	105	
	4	6031	63.7	95	
	5	7161	79.2	90	

## Nominal Lumen Maintenance

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

### Control Systems

- WaveLinX Wireless
- WaveLinX Wired
- Enlighted
- iLumin Plus



Connected Systems  
CLICK HERE

### SVPD1 Integrated Sensor

The Element 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 Element 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 Element delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

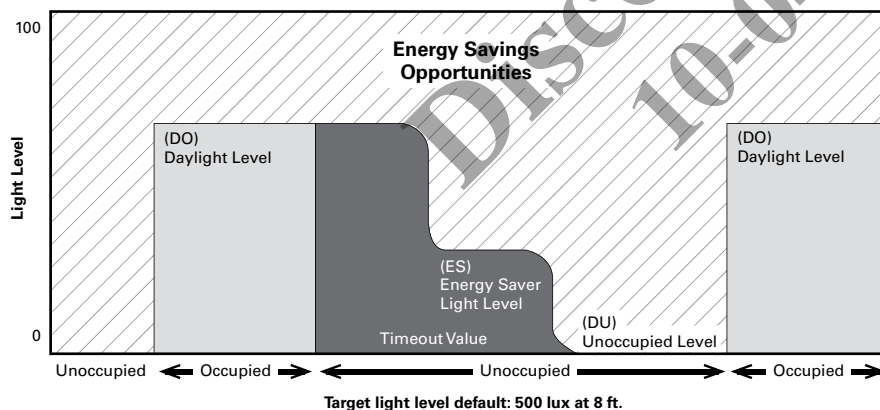
The integral daylight sensors reduce the need for special daylight zone planning. The luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

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

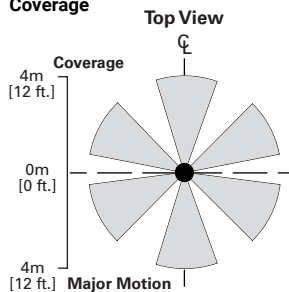
#### How it works:

- 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.

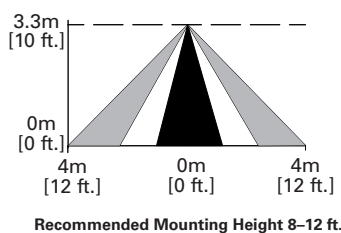


ISHH-01 Programming Remote

#### Coverage



#### Side View



ISHH-02 Personal Control Remote