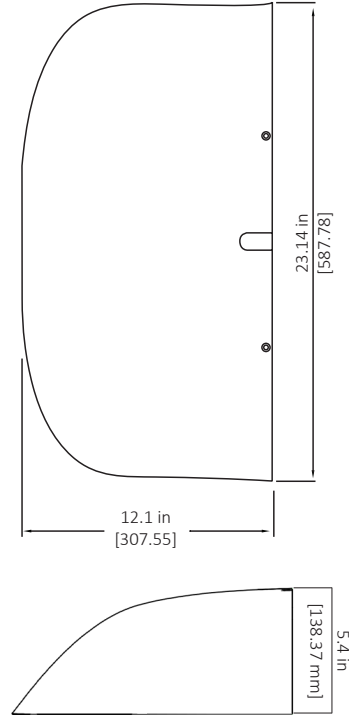


Eseta™ LED Wall Sconce

ES2 w/ OMNI Lens™ Visual Comfort Optics

Luminaire Data

Weight 15 lbs [6.8 kg]
20.1 lbs [9.1kg] with EM/EM2 option



Ordering Information

Sample Catalog No. ES2 88H MV NW W BK 450 EM

Product	No. & Type of LEDs	Voltage	Color Temperature ¹	Distribution	Finish ²	Drive Current ³	Options
ES2	88H 130H ^{7,8}	MV ⁶ 120-277V	WW 3000K	W Wide FT Forward Throw	BK Black	450 450mA (standard)	PC ⁴ Button Type Photo Control PCR7-CR ANSI 7-Wire Photocontrol Receptacle
		HV 347-480V	NW 4000K CW 5000K		DB Dark Bronze GY Gray WH White		

Notes:

- Consult factory for other color temperatures.
- Consult factory for non-standard finish options. See page 2 for specifications.
- Factory set drive current, non-field adjustable. Refer to performance data on page 3.
- PC option available with MV. For PC and HV, customer must specify required voltage of 347V or 480V.
- Motion Sensor default setting dims luminaire to 50% when no motion is detected for 5 minutes.
- Emergency Battery System available with MV only. Three year limited warranty on battery system.
- Emergency Battery System ('EM' or 'EM2' options) w/ 130H LED fixture configuration, the max available drive current available is 350mA. (for 350mA performance, use a 0.81 lumen multiplier & 0.77 wattage multiplier vs. 450mA data on page 3 & for scaling IES files as needed)
- 350mA drive current option is only available for use w/ 130H LED fixture configurations requiring EM or EM2 emergency options only.
- FSIR100 motion sensor handheld wireless configuration accessory can be used to adjust factory settings as needed. (accessories must be ordered separately as needed, only one FSIR100 required per project)

Accessories*

FSIR100⁹	Handheld Motion Sensor Configuration Tool
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*Accessories are to be ordered separately and not to be included in the luminaire's catalog number.



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Luminaire Specifications

Housing

Die cast aluminum housing with back mounting plate and outdoor rated cable. Back mounting plate includes novel hanging features to allow one-person installation. Knockouts on the top and bottom of the housing allow conduit entry. Electrical components are accessed behind gasketed optical cover.

Light Emitting Diodes

Hi-flux/Hi-power white LEDs are tested in accordance with IES LM-80 testing procedures. Warm White (3000K), Neutral White (4000K) and Cool White (5000K) with minimum 70 CRI are standard. LEDs are 100% mercury and lead free.

Optical Systems

The OMNI Lens™ visual comfort optical system creates a low brightness source to significantly reduce visibility glare with precision Wide or Forward Throw distributions. Lens cover is UV stabilized, vandal-resistant polycarbonate. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0).

Electrical

Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Transient voltage complies with ANSI C62.41 Cat. A. Integral surge protector is tested per ANSI/IEEE C62.45 procedures based on ANSI/IEEE C62.41.2 definitions for standard and optional waveforms for Location Category C High.

Finish

Housing receives a fade and abrasion resistant epoxy polyester powder coat. Finish tested to withstand 5000 hours in salt spray exposure per ASTM B117. Finish tested 5000 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations and emergency lighting in the United States and Canada. Ambient operating temperature is -40°C to 40°C with non-EM unit. Entire fixture maintains an IP66 and IK10 rating. DesignLights Consortium™ qualified product. Consult DLC QPL to confirm your specific fixture selection is DLC approved. Assembled in the United States.

Photometry

Luminaires are photometrically tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Lumen Maintenance

Models	TM-21 Lumen Maintenance (hours) at 25°C	
	At 50,000	At 100,000
ES2-88H	95%	90%
ES2-130H	92%	87%

Warranty

10-year limited warranty is standard on luminaire and components. 5-year limited warranty on motion sensor and photo control. 3-year limited warranty on Emergency Battery System.

Color Specifications

Order Code	Color	RAL #	Pantone Equivalent
GY	Gray	7040	429C
BK	Black	9004	426C
DB	Dark Bronze	6022	BLACK 2C
DB1	Dark Bronze	8019	412
WH	White	9003	11-0601
NA	Natural Aluminum	9006	N/A



Eseta™ LED Wall Sconce

ES2 w/ OMNI Lens™ Visual Comfort Optics

Performance Data

All data nominal, consult factory for IES files or LM-79 reports.

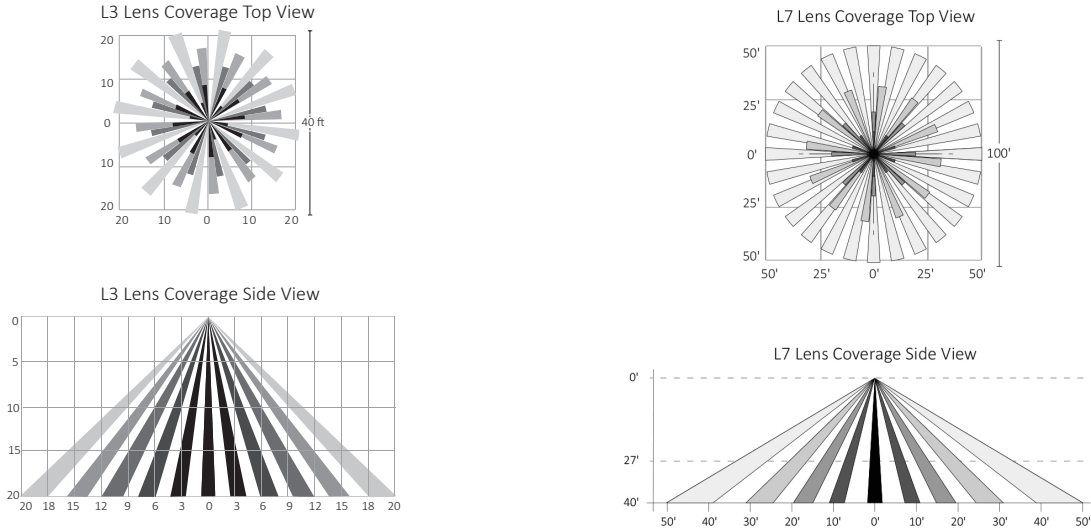
CCT	Two Distributions		Wide Distribution*			Forward Throw Distribution*		
	No. of LEDs & Type	Drive Current (mA)	System Wattage (W)	Delivered Lumens (Lm)	Efficacy (Lm/W)	System Wattage (W)	Delivered Lumens (Lm)	Efficacy (Lm/W)
3000K	88H	450*	128.8	13285	103.1	129.7	13491	104.0
	130H*		185.8	18973	102.1	182.4	18690	102.5
4000K	88H		130.1	14032	107.9	125.6	14254	113.5
	130H*		185.3	19562	105.6	183.9	19625	106.7
5000K	88H		129.0	13981	108.4	127.8	13943	109.1
	130H*		184.2	19542	106.1	181.7	19150	105.4

*130H LED configurations w/ Emergency Battery System ('EM' or 'EM2' options), the max available drive current available is 350mA.
(for 350mA performance, use a 0.81 lumen multiplier & 0.77 wattage multiplier vs. 450mA data shown above & for scaling IES files as needed)

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Motion Sensor (Optional) Data



Motion Sensor (Optional) Specifications

Description

Digital passive infrared luminaire integrated outdoor occupancy sensor provides high/low/off control based on motion. Initial setup and subsequent sensor adjustments are made using a handheld configuration tool.

Operation

Standard factory setting will dim the luminaire to 50% until motion is sensed and then it will power to 100%. When motion is not detected for five minutes, the luminaire will dim back to 50%. Ramp up and fade down times are adjustable, but initially set to NONE.

The percent dimming and time durations may be field adjusted as required using FSIR100 option. FSIR user guide available at: www.wattstopper.com.

Optical System

Multi-cell, multi-tier Fresnel lens with a 360 degree view detects unobstructed motion. L3 lens is designed for a mounting height up to 20 feet and detects motion within one mounting height. L7 lens is designed for a mounting height up to 40 feet and detects motion within 1.25 mounting height.

Finish

Sensor exterior ring and lens are white polycarbonate, UV and impact resistant.

Listings/Ratings

Sensor is TUV, UL and cUL listed, IP66 rated and CE compliant.

Warranty

5-year limited warranty on luminaires and components with a motion sensor.

Emergency Battery System (Optional) Specifications

Description

Emergency battery system option provides a nominal 2300 lumens for a minimum of 90 minutes and can be specified with motion sensor option. Test switch and charging indicator light are visible and accessible on the optical cover.

Temperature Rating

'EM' cold weather emergency battery system ambient operating temperature is -20°C to +60°C (-4°F to 140°F). 'EM2' warm weather emergency battery system ambient operating temperature is 0°C to +60°C (32°F to 140°F).

Listings/Ratings/Labels

Emergency LED driver and batteries are UL recognized and CSA certified. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC), National Building Code of Canada (NBC), National Fire Code of Canada (NFC) and UL 90-minute requirements.

Warranty

3-year limited warranty on Emergency Battery System.