

FEATURES & SPECIFICATIONS

INTENDED USE — 2ESL2 provides a high-performance LED energy-saving alternative to fluorescent and parabolic fixtures. Used in place of parabolics, 2ESL2 is ideal for retail, educational, and commercial applications.

CONSTRUCTION — Robust design, precision-tooling and automated assembly combine to create the industry's strongest louver. Mechanical light seal requires no foam gasketing. Integral T-bar clips secure fixture to T-bar system. Housing formed of cold-rolled steel.

Prior to fabrication, housing and reflector are coated with a proprietary paint blend and die formed for dimensional consistency.

Louver painted after fabrication with low gloss, high reflectivity polyester powder coat.

OPTICS — Mechanical shielding is provided with angled length blades, and linear faceted cross baffles. Contoured housing efficiently directs light downward. Lamp cut-out maximizes shielding even in shallow plenum applications and softens light distribution to deliver a balanced amount of light to both vertical and horizontal surfaces.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable — allowing it to digitally communicate with other nLight-enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight-enabled control devices and the 2ESL2 luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Driver disconnect provided where required to comply with US and Canadian codes.

Enabled with Atrius™ — Select models of this product line are enabled with Atrius, making them part of the Atrius Sensory Network and ready to deliver valuable data and connectivity to the Atrius Platform. For more information concerning Atrius solutions, please refer to www.acuitybrands.com/Atrius.

LISTINGS — CSA listing.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at www.acuitybrands.com/support/warranty/terms-and-conditions

US PATENTS: 6,210,025; 6,231,213, additional patents pending.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Catalog Number
Notes
Type

Premium High-Performance LED Lighting

2ESL2 2'X2'



LED

eldoLED



ATRIUS
READY



Specifications

Length: 24 (60.96)

Width: 24 (60.96)

Depth: 3-11/16 (9.4)

All dimensions are inches (centimeters) unless otherwise indicated.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background***
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background***

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

2ESL2 2'x2' Premium High-Performance LED Lighting



A+ Capable options indicated by this color background.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: 2ESL2 20L MVOLT EZ1 LP830

2ESL2									
Series	Lumens ¹	Voltage	Driver	Color Temperature		Controls			
2ESL2	20L 2000	MVOLT 120-277V	E0HN On/Off (non-dim)	LP830	82CRI, 3000K	(blank)	No nLight®		
	33L 3300	347 347V ²	EZ1 eldoLED dims to 1% (0-10 volt dimming)	LP835	82CRI, 3500K	N80	nLight® with 80% lumen management		
	40L 4000		SLD Step-level dimming	LP840	82CRI, 4000K	N80EMG	nLight® with 80% lumen management For use with generator supply EM power		
				LP850	82CRI, 5000K	N100	nLight® without lumen management		
						N100EMG	nLight® without lumen management For use with generator supply EM power		

Enabled with Atrius		Options	
AE1CD	Atrius Enabled Platform 1; VLC & BLE Positioning; Digital Driver Communication	EL7L	700 lumen battery pack ³
AE2CD	Atrius Enabled Platform 2; VLC & BLE Positioning; Digital Driver Communication	EL14L	1400 lumen battery pack ³
		E10WLCP	EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ³
		CP	Chicago plenum ⁴
		PWS1836	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit
		PWS1846	6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
		PWS1846 PWSLV	Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge ⁵
		PWS1856LV	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage wires ⁵
		BAA	Buy America(n) Act Compliant

Enabled with Atrius™ Notes

- A Only available with EZ1 or E0HN driver (consult factory).
- B No Occupancy control available.
- C Lower lumen packages will lose VLC functionality when dimmed.

Notes

- 1 Approximate lumens.
- 2 Not available with EL7L, EL14L or E10WLCP
- 3 When using pre-wire option, use PWS1846 or PWS1846 PWSLV
- 4 Not available with N80, N80EMG, N100, or N100EMG, Not available with PWS1836, PWS1846, PWS1856LV or PWS1846 PWSLV.
- 5 Not available with nLIGHT

2ESL2 2'x2' Premium High-Performance LED Lighting

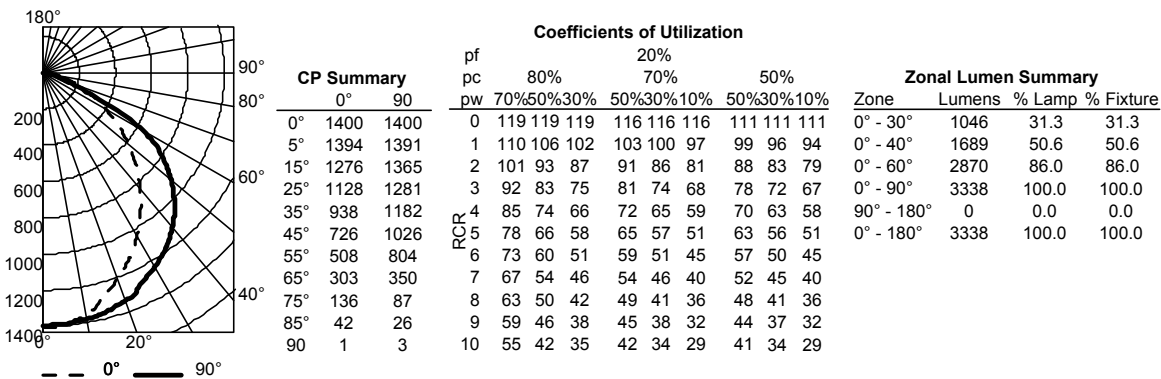
PERFORMANCE DATA			
Lumen Package	Lumens	Input Watts*	LPW
20L EZ1 LP830	2287	19	120
20L EZ1 LP835	2333	19	123
20L EZ1 LP840	2397	19	126
20L EZ1 LP850	2417	19	127
33L EZ1 LP830	3271	28	116
33L EZ1 LP835	3338	28	118
33L EZ1 LP840	3429	28	121
33L EZ1 LP850	3458	28	122
40L EZ1 LP830	4073	36	112
40L EZ1 LP835	4156	36	114
40L EZ1 LP840	4269	36	117
40L EZ1 LP850	4305	36	118
30L SLD LP830	2880	26	112
30L SLD LP835	2939	26	114
30L SLD LP840	3019	26	117
30L SLD LP850	3045	26	118

* Nominal watts

Energy Comparison - 2x2 LED vs. T12 & T8				
System	Lamp type	Ballast factor	Input watts ¹	Watts saved by using LED
2ESL2 20L	LED	1.0	19	--
3-lamp T12 F40	F40T12U	0.88	108	89
3-lamp T8 F32	F32T8U	0.88	90	71
3-lamp T12 F20	F20T12	0.88	84	65
3-lamp T8 F17	F17T8	0.88	47	28
2-lamp T12	F40T12U	0.88	72	53
2-lamp T8	F32T8U	0.88	60	41

PHOTOMETRICS

2ESL2 33L EZ1 LP835, 3338 delivered lumens, test no. 109634P10, tested in accordance to IESNA LM-79



2ESL2 40L EZ1 LP835, 4156 delivered lumens, test no. 109634P14, tested in accordance to IESNA LM-79

