

FEATURES & SPECIFICATIONS

INTENDED USE — 2ESL4 provides a high-performance LED energy-saving alternative to fluorescent and parabolic fixtures. Used in place of parabolics, 2ESL4 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 2ESL4 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) qualified product. Not all versions of this product may be 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

2ESL4 2'X4'

LED



eldoLED



ATRIUS
READY



Specifications

Length: 48 (121.9)

Width: 24 (60.69)

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

2ESL4 2'x4' 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: 2ESL4 30L MVOLT EZ1 EL7L LP835

2ESL4					
Series	Lumens ¹	Voltage	Driver	Color temperature	Controls
2ESL4	30L 3000	MVOLT 120-277V	EOHN On/Off (non-dim)	LP830 82CRI, 3000K	(blank) No nLight®
	40L 4000	347 347V ²	EZ1 eldoLED dims to 1% (0-10 volt dimming)	LP835 82CRI, 3500K	N80 nLight® with 80% lumen management
	44L 4400		SLD Step-level dimming	LP840 82CRI, 4000K	N80EMG nLight® with 80% lumen management For use with generator supply EM power
	48L 4800			LP850 82CRI, 5000K	N100 nLight® without lumen management
	60L 6000				N100EMG nLight® without lumen management For use with generator supply EM power
	72L 7200				

Enabled with Atrius	Options
AE1CD Atrius Enabled Platform 1; VLC & BLE Positioning; Digital Driver Communication	EL7L 700 lumen battery pack ^{3,4}
AE2CD Atrius Enabled Platform 2; VLC & BLE Positioning; Digital Driver Communication	EL14L 1400 lumen battery pack ^{3,4}
	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ⁵
	CP Chicago plenum ⁶
	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
	JP16 Job pack 16
	BAA Buy America(n) Act Compliant

Enabled with Atrius™ Notes

- A Not available with 72L or higher.
- B Only available with EZ1 or EOHN driver (consult factory).
- C No Occupancy Control available.
- D Lower lumen packages will lose VLC functionality when dimmed.

Notes

- 1 Approximate lumens.
- 2 Not available with EL7L, EL14L, or E10WLCP
- 3 Not available with 72L option.
- 4 When using pre-wire option, use PWS1846 or PWS1846 PWSLV. For more information on the EL14LSD, please see the PSSD2 specification sheet.
- 5 Not available with nLIGHT wired network or individual controls
- 6 Not available with PWS1836, PWS1846, PWS1856LV or PWS1846 PWSLV

2ESL4 2'x4' Premium High-Performance LED Lighting

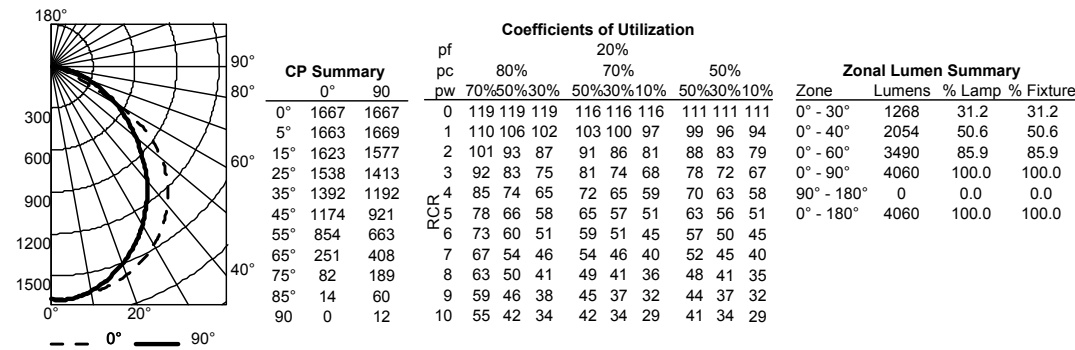
PERFORMANCE DATA			
Lumen Package	Lumens	Input Watts*	LPW
30L EZ1 LP830	3183	24	132
30L EZ1 LP835	3248	24	134
30L EZ1 LP840	3336	24	138
30L EZ1 LP850	3364	24	139
40L EZ1 LP830	3979	30	131
40L EZ1 LP835	4060	30	134
40L EZ1 LP840	4170	30	138
40L EZ1 LP850	4206	30	139
44L EZ1 LP830	4391	34	131
44L EZ1 LP835	4480	34	133
44L EZ1 LP840	4602	34	137
44L EZ1 LP850	4641	34	138
48L EZ1 LP830	4762	37	127
48L EZ1 LP835	4859	37	130
48L EZ1 LP840	4991	37	133
48L EZ1 LP850	5033	37	135
60L EZ1 LP830	6059	50	122
60L EZ1 LP835	6182	50	125
60L EZ1 LP840	6350	50	128
60L EZ1 LP850	6404	50	129
72L EZ1 LP830	7126	61	116
72L EZ1 LP835	7271	61	119
72L EZ1 LP840	7468	61	122
72L EZ1 LP850	7532	61	123
80L SLD LP830	7744	72	108
80L SLD LP835	7902	72	110
80L SLD LP840	8116	72	113
80L SLD LP850	8186	72	114

*Nominal watts

Energy Comparison - 2x4 LED vs. T12 & T8				
System	Lamp type	Ballast factor	Input watts ¹	Watts saved by using LED
2ESL4 40L	LED	1.0	30	---
4-lamp T12	F40T12	0.88	144	114
4-lamp T8	F32T12	0.88	110	80
3-lamp T12	F40T12	0.88	108	78
3-lamp T8	F32T12	0.88	90	60
2-lamp T12	F40T12	0.88	72	42
2-lamp T8	F32T12	0.88	60	30

PHOTOMETRICS

2ESL4 40L EZ1 LP835, 4060 delivered lumens, test no. 109635P2, tested in accordance to IESNA LM-79



2ESL4 48L EZ1 LP835, 4859 delivered lumens, test no. 109635P10, tested in accordance to IESNA LM-79

