

FEATURES & SPECIFICATIONS

IINTENDED USE —The 2ESL4RR LED Relight assembly is designed to convert Lithonia 2ES8R Relight kits to highly efficient LED performance in a variety of applications and mounting heights.

CONSTRUCTION — LED panels with integral diffuser assembly install in place of existing fluorescent reflectors, using 2ES8R end brackets for support and positioning.

Intelligent programmable driver installs in place of fluorescent ballast, and electrical components plug together for quick and simple installation.

OPTICS — LED light panel and diffuser assemblies are designed to provide consistent, uniform lighting in conjunction with existing louvered doorframe. Panels are designed to use existing mounting brackets to optimize source-to-aperture distance.

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 2ESL4RR 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.

INSTALLATION — After existing fluorescent components are removed from housing, universal end brackets are fastened in place with tek screws. The LED light engine assembly mounts to the end brackets and hangs securely while the wiring connection is made using a driver-disconnect plug system provided as standard. The light engine then swings up into position and is secured in place with a captive screw at each end. The doorframe is then inserted via a sliding hinge into the end bracket and secured in the closed position with a rotating cam latch. Light engine may be removed from fixture during service. LED boards include plug-in connectors for easy replacement or servicing. Suitable for damp location installations.

LISTINGS — UL listed. 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.

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

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	
Туре	







Specifications

Intended for installation in host fixtures where 2ES8R fluorescent Relight kits have been installed

****** 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

COMMERCIAL INDOOR 2ESL4RR-2X4



ORDERING INFORMATION

 $Lead\ times\ will\ vary\ depending\ on\ options\ selected.\ Consult\ with\ your\ sales\ representative.$

Example:	2ESL4RR 40L MVOLT EZ1 LP840

2ESL4RR					
Series	Lumens ¹	Voltage	Driver	Color temperature	Controls
2ESL4RR	30L 3000 34L 3400 40L 4000 44L 4400 48L 4800 60L 6000 72L 7200	MVOLT 120-277V 347 347V ²	EOHN On/Off (non-dim) EZ1 eldoLED, dims to 1% SLD Step level dimming	LP835 82 CRI, 3500 K LP840 82 CRI, 4000 K LP830 82 CRI, 3000 K LP850 82 CRI, 5000 K	(blank) No controls N80 N-light with 80% lumen management ³ N100 N-light with no lumen management ³ N80EMG N-light with 80% lumen management for use with generator supply EM power ³ N100EMG N-light without lumen management for use with generator supply EM power ³

Enabled with Atrius	tions	
AE1CD Atrius Enabled Platform 1; VLC & BLE Positioning; Digital Driver Communication AE2CD Atrius Enabled Platform 2; VLC & BLE Positioning; Digital Driver Communication	70.7L 700 lumen battery pack 46 1.14L 1400 lumen battery pack 4.6 REA RELOC®-ready luminaire C Chicago plenum ^{5,8} WS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit WS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit WS1846 PWSLV Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter WS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage wires ⁷	. 18 gauge ⁷

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 lumen output.
- 2 Option ships separately as a field-installed accessory. Verify compliance with local codes prior to ordering.
- 3 No external access to nIO.
- 4 Not available with 72L lumen package.
- 5 CP host housing required.
- 6 When using pre-wire option, use PWS1846 or PWS1846 PWSLV. For more information on the EL14LSD, please see the PSSD2 specification
- $7\ \ Not \, available \, with \, nLIGHT \, wired \, network \, or \, individual \, control.$
- 8 Not available with N80, N80EMG, N100, or N100EMG. Not available with PWS1836, PWS1846, PWS1856LV or PWS1846.



2ESL4RR 2' x 4'

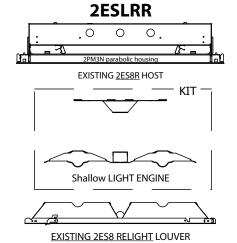
Performance Data							
Lumen Package	Lumens	Input Watts ¹	LPW				
30L EZ1 LP830	3183	24	132				
30L EZ1 LP835	3248	24	134				
30L EZ1 LP840	3336	24	138				
30L EZ1 LP850	3364	24	139				
40L EZ1 LP830	3979	30	131				
40L EZ1 LP835	4060	30	134				
40L EZ1 LP840	4170	30	138				
40L EZ1 LP850	4206	30	139				
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				

Energy Comparison - 2x4 LED vs. T12 & T8								
System	Lamp	Watts saved						
	type	factor	watts ¹	by using LED				
2ESL4RR 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				

FIT COMPATIBILITY

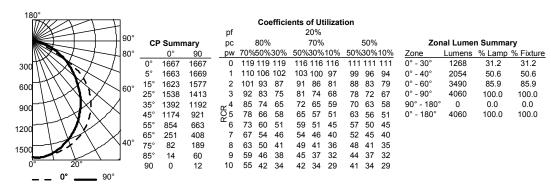
 $The 2ESL4RR \ Relight \ assembly \ was \ engineered \ to \ upgrade \ recessed \ existing \ 2ESR \ fixtures. \ Lithonia \ Lighting \ recommends \ a \ trial \ installation \ prior \ to \ purchasing \ project \ quantities.$

RETROFITING AN EXISTING 2ES8R

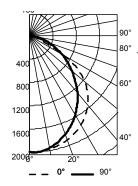


PHOTOMETRICS

 $2\mathsf{ESL4RR}\,4\mathsf{OL}\,\mathsf{EZ1}\,\mathsf{LP835}, 4060\,\mathsf{delivered}\,\mathsf{lumens}, \mathsf{test}\,\mathsf{no}.\,109635\mathsf{P2}, \mathsf{tested}\,\mathsf{in}\,\mathsf{accordance}\,\mathsf{to}\,\mathsf{IESNA}\,\mathsf{LM-79}$



2ESL4RR 48L EZ1 LP835, 4859 delivered lumens, test no. 109635P10, tested in accordance to IESNA LM-79



			Coefficients of Utilization										
			pf				2	0%					
CF	Sumn	nary	рс		80%			70%			50%		
	0°	90	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%	
0°	1995	1995	0	119	119	119	116	116	116	111	111	111	
5°	1990	1997	1	110	106	102	103	100	97	99	96	94	
5°	1942	1888	2	101	93	87	91	86	81	88	83	79	
25°	1841	1691	3	92	83	75	81	74	68	78	72	67	
35°	1666	1426	<u>~</u> 4	85	74	65	72	65	59	70	63	58	
١5°	1405	1102	짇5	78	66	58	65	57	51	63	56	51	
55°	1022	793	<u>"</u> 6	73	60	51	59	51	45	57	50	45	
65°	300	489	7	67	54	46	54	46	40	52	45	40	
'5°	98	227	8	63	50	41	49	41	36	48	41	35	
35°	17	72	9	59	46	38	45	37	32	44	37	32	
90	0	14	10	55	42	34	42	34	29	41	34	29	

Coefficients of Utilization

Zonal Lumen Summary							
Zone	Lumens	% Lamp	% Fixture				
0° - 30°	1518	31.2	31.2				
0° - 40°	2458	50.6	50.6				
0° - 60°	4176	85.9	85.9				
0° - 90°	4859	100.0	100.0				
90° - 180°	0	0.0	0.0				
0° - 180°	4859	100.0	100.0				