

FEATURES & SPECIFICATIONS

INTENDED USE — The FS Series recessed LED luminaire combines modern aesthetics and performance in a general lighting product that enables the transformation from fluorescent to LED. The high efficacy light engine delivers long life and excellent color to ensure a quality lighting installation. Integrated controls options provide for design flexibility and optimum energy savings. Multiple lumen packages and driver options provide solutions for all your lighting applications. Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — Rugged, one-piece cold-rolled steel coated polyester, painted after fabrication. The satin white lens provides excellent shielding and wide distribution. End plates include integral T-bar clips. Fixture may be mounted and wired in continuous rows. Total fixture height is only 4-3/8".

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). The LEDs have a CRI of 82. 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 them to digitally communicate with other nLight enabled controls such as dimmers, switches, and nLight AIR RIO. Simply connect all the nLight enabled control devices and the FSLED luminaires using standard Cat-5 cabling, or the nLight AIR wireless network. Unique plug-and-play convenience allows devices and luminaires to 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.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 2 for the nLight sensor options.

Integrated Smart Sensor (nLight Air Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is both a digital PIR occupancy sensor/automatic dimming photocell. It pairs to other luminaires and wall switches through our mobile app CLAIRity, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

INSTALLATION — Unique grid interfacing arrangement provides mounting into standard 1" and 9/16" tee bar or screw slot grids. 9/16" allows fixture trim to hang level with architectural ceiling tiles. Drywall ceiling adaptors available. Suitable for damp location.

LISTINGS — CSA certified to meet US and Canadian standards. IC rated. DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms and conditions.aspx

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			



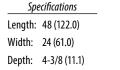


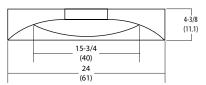
Stock Configurations

2FSL4 40L EZ1 LP835 2FSL4 40L EZ1 LP840

DIMENSIONS

All dimensions are inches (centimeters) unless otherwise specified.





4 Capable Luminaire

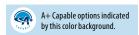
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- 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 2FSL4-2X4



ORDERING INFORMATION

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

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2FSL4											
Series		Air function	Lumens ¹	Lens	Voltage	Driver	Color temperature	Controls		Options	
2FSL4	2X4 FSL	(blank) Static H Heat removal	30L 3000 40L 4000 48L 4800 60L 6000 72L 7200 85L 8500 100L 10000 ² 120L 12000 ²	(blank) Satin white	(blank) MVOLT 347 3473	EZ1 eldoLED dims to 1%, 0-10V EZB eldoLED dims to black, 0-10V GZ1 Dims to 1% (0-10V dimming) 4 GZ10 Dims to 10% (0-10V dimming) 5 EDB eldoLED DALI 5 SLD Step-level dimming 5.5 EOHN On/Off (non-dim)	LP830 3000 K LP835 3500 K LP840 4000 K LP850 5000 K	N80 ni 88 mm	lo controls light® with 0% lumen nanagement light® with 0% lumen nanage- nent. For se with enerator upply EM ower. light® with- ut lumen nanagement light® vith- ut lumen nanagement light® vithout umen man- gement. or use with enerator upply EM ower. light® AIR addinated without ensors 7	EL7L EL14L E10WLCP CP BGTD PWS1836 PWS1846 RRL_ NPLT	700 lumen battery pack (Noncompliant with CA T20) 1400 lumen battery pack (Noncompliant with CA T20) EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS Chicago plenum Bodine Generator Transfer Device ^{3,10} 6' prewire, 3/8" diameter, 18-gauge, 1-circuit 6' prewire, 3/8" diameter, 18-gauge, 2-circuit RELOC®-ready luminaire ⁸ Narrow pallet

Accessories: Order as separate catalog number.

2FS4 F916 Trim to adjust fixture mounting flush with

9/16" T-bar; for 2x4 fixture

DGA24 FS/VT Drywall ceiling adaptor, unit installation 2X4SMKSHP PAF Surface Mount Troffer Kit Post Paint

- Approximate lumen output. 1
- Not available with SLD, EL7L, and EL14L.
- Consult factory for availability. Not available with SLD, EL7L, EL14L or E10WLCP.
- GZ1, GZ10 drivers not available with any Controls options.
- Not available with N80, N80EMG, N100 or N100EMG.
- When using prewire option, use PWS1846.
- RIO available with EZ1 and EZB drivers only. Not available with 72L, 85L, 100L and 120L lumen options.

Example: 2FSL4 40L GZ10 LP835

- For ordering logic consult: RRL 2013. Not available with SLD.
- 10 Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.

COMMERCIAL INDOOR 2FSL4-2X4

Performance Data						
Lumen package	Lumens	Input watts	LPW			
2FSL4 30L LP830	2949	23.0	128			
2FSL4 30L LP835	3000	23.0	130			
2FSL4 30L LP840	3051	23.0	133			
2FSL4 30L LP850	3051	23.0	133			
2FSL4 40L LP830	3949	31.7	124			
2FSL4 40L LP835	4017	31.7	127			
2FSL4 40L LP840	4086	31.7	129			
2FSL4 40L LP850	4086	31.7	129			
2FSL4 48L LP830	4813	38.5	125			
2FSL4 48L LP835	4896	38.5	127			
2FSL4 48L LP840	4979	38.5	129			
2FSL4 48L LP850	4979	38.5	129			
2FSL4 60L LP830	5936	46.0	129			
2FSL4 60L LP835	6038	46.0	131			
2FSL4 60L LP840	6141	46.0	133			
2FSL4 60L LP850	6141	46.0	133			
2FSL4 72L LP830	7180	57.3	125			
2FSL4 72L LP835	7303	57.3	127			
2FSL4 72L LP840	7427	57.3	130			
2FSL4 72L LP850	7427	57.3	130			
2FSL4 85L LP830	8505	68.2	125			
2FSL4 85L LP835	8652	68.2	127			
2FSL4 85L LP840	8799	68.2	129			
2FSL4 85L LP850	8799	68.2	129			
2FSL4 100L LP830	10028	81.4	123			
2FSL4 100L LP835	10201	81.4	125			
2FSL4 100L LP840	10374	81.4	127			
2FSL4 100L LP850	10374	81.4	127			
2FSL4 120L LP830	12671	103.4	123			
2FSL4 120L LP835	12890	103.4	125			
2FSL4 120L LP840	13108	103.4	127			
2FSL4 120L LP850	13108	103.4	127			

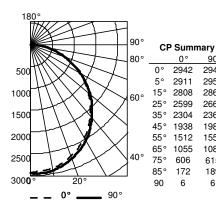
How to Estimate Delivered Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode Delivered Lumens = 1.25 x P x LPW

 $P = 0 uput \ power \ of \ emergency \ driver. \ P = 10W \ for \ E10WLCP \ option.$ $\label{eq:LPW} LPW = Lumen\ per\ watt\ rating\ of\ the\ luminaire.\ This\ information\ is\ available\ on$ the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW $information\ available\ in\ Performance\ Data\ section.$

PHOTOMETRICS

2FSL4 85L LP835, 8652 delivered lumens.



pf рс

2942

2911

2808

2599

2304

1938

1512

1055

606

172

2942

2953

2865

2665

2367

1987

1555

1081

615

189

20% 80% 70% 50% pw 70%50%30% 50%30%10% 50%30%10% 0 119 119 119 116 116 116 108 103 99 101 97 93 97 93 90 98 90 83 88 81 76 84 79 3 89 79 70 77 69 63 74 67 62 825 6 82 70 61 68 60 53 66 58 53 61 52 46 59 51 45 75 62 53 69 56 47 55 46 40 53 45 40 64 51 42 50 41 35 48 41 35 60 46 38 45 37 31 44 37 31 41 33 28 56 42 34 42 34 28 52 39 31 39 31 26 37

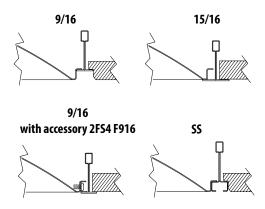
Coefficients of Utilization

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0°-30°	2299	26.6	26.6
0°-40°	3766	43.5	43.5
0°-60°	6681	77.2	77.2
0°-90°	8646	99.9	99.9
90° - 120°	4	0.0	0.0
90° - 130°	5	0.1	0.1
90° - 150°	5	0.1	0.1
90° - 180°	6	0.1	0.1
0°-180°	8652	100.0	100.0

COMMERCIAL INDOOR 2FSL4-2X4

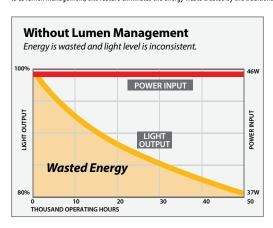
MOUNTING DATA

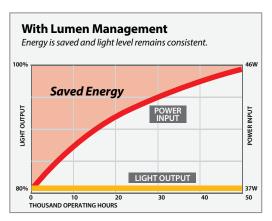


nLight® Control Accessories: Order as separate catalog number. Visit <u>www.sensorswitch.com/nLight</u> for complete listing of nLight controls.							
WallPod stations Model number Occupancy sensors Model number							
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9				
On/Off & Raise/Lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10				
Graphic Touchscreen	nPOD GFX [color]	Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16				
Photocell controls	Model number	Wall Switch w/ Raise/Lower (PIR / dual tech)	nWSX LV DX / nWSX PDT LV DX				
On/Off & Dimming	nCM ADCX	Cat-5 cables (plenum rated)	Model number				
		10', CAT5 10FT	CATS 10FT J1				
		15', CAT5 15FT	CATS 15FT J1				

Constant Lumen Management

Enabled by the embedded nLight control, the FSL actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.





Notes

 $With \ n light \ 80\% \ lumen \ management \ input \ watts \ start \ at \ 37 \ and \ gradually \ increasing \ to \ 46 \ at \ 50,000 \ hrs \ when \ using \ 48L \ system.$