

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 integrity of acrylic. Click here for Acrylic Environmental 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).

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 available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. 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	

FS Series



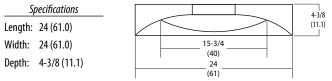


Stock Configurations

2FSL2 33L EZ1 LP835 2FSL2 33L 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 2FSL2-2X2



ORDERING INFORMATION

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

2FSL2										
Series	Air function	Lumens ¹	Lens	Voltage	Driver	Color temperature	Controls		Options	
2FSL2 2X2 FSL	(blank) Static H Heat removal	20L 2000 33L 3300 40L 4000 48L 4800 60L 6000 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) 5-6 EDB eldoLED DALI 5 SLD Step-level dimming 5-6 EOHN On/Off (nondim)	LP830 3000 K LP835 3500 K LP840 4000 K LP850 5000 K	(blank) N80 N80EMG N100 N100EMG	No controls nlight® with 80% lumen management nlight® with 80% lumen management. For use with generator supply EM power. nlight® without lumen management nlight® without lumen management nlight® without lumen management. For use with generator supply EM power. nlight® AIR radio module without sen- sors 7	EL7L EL14L E10WLCP CP BGTD PWS1836 PWS1846 RRL_	3/8" diameter, 18-gauge, 2-circuit RELOC®-ready luminaire ⁸
									NPLT	Narrow pallet

Accessories: Order as separate catalog number.

2FS2 F916 Trim to adjust

Trim to adjust fixture mounting flush with

9/16" T-bar; for 2x2 fixture

DGA22 FS/VT Drywall ceiling adaptor , unit installation 2X2SMKSHP PAF Surface Mount Troffer Kit Post Paint

Notes

- 1 Approximate lumen output.
- 2 Not available with SLD, EL7L and EL14L.
- 3 Consult factory for availability. Not available with SLD, EL7L, EL14L or E10WLCP.

Example: 2FSL2 33L GZ10 LP835

- 4 GZ1, GZ10 drivers not available with any Controls options.
- 5 Not available with N80, N80EMG, N100 or N100EMG.
- 6 When using prewire option, use PWS1846.
- 7 RIO available with EZ1 and EZB drivers only.
- For ordering logic consult: RRL 2013.
- 9 Not available with SLD.
- 10 Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.

COMMERCIAL INDOOR 2FSL2-2X2

Performance Data					
Lumen package	Lumens	Input watts	LPW		
2FSL2 20L LP830	1950	16.4	119		
2FSL2 20L LP835	1984	16.4	121		
2FSL2 20L LP840	2018	16.4	123		
2FSL2 20L LP850	2018	16.4	123		
2FSL2 33L LP830	3298	27.1	122		
2FSL2 33L LP835	3355	27.1	124		
2FSL2 33L LP840	3412	27.1	126		
2FSL2 33L LP850	3412	27.1	126		
2FSL2 40L LP830	3963	33.7	118		
2FSL2 40L LP835	4032	33.7	120		
2FSL2 40L LP840	4100	33.7	122		
2FSL2 40L LP850	4100	33.7	122		
2FSL2 48L LP830	4793	40.5	118		
2FSL2 48L LP835	4875	40.5	120		
2FSL2 48L LP840	4958	40.5	122		
2FSL2 48L LP850	4958	40.5	122		
2FSL2 60L LP830	5922	53.6	111		
2FSL2 60L LP835	6025	53.6	112		
2FSL2 60L LP840	6127	53.6	114		
2FSL2 60L LP850	6127	53.6	114		

How to Estimate Delivered Lumens in Emergency Mode

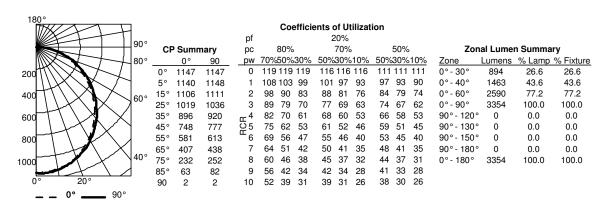
Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

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

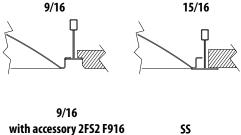
PHOTOMETRICS

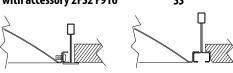
2FSL2 33L LP835, 3355 delivered lumens.



COMMERCIAL INDOOR 2FSL2-2X2

MOUNTING DATA

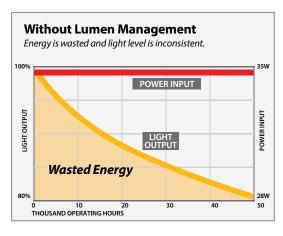


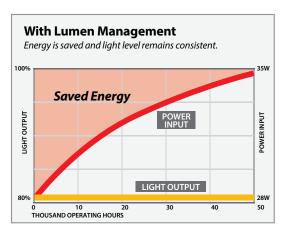


nLight® Control Accessories: Order as separate catalog number. Visit <u>www.sensorswitch.com/nLight</u> for complete listing of nLight controls.				
WallPod stations	Model number	Occupancy sensors	Model number	
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9	
On/Off & 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 D	
On/Off & Dimming	nCM ADCX	Cat-5 cable (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

 $With n light 80\% \ lumen \ management \ input \ watts \ start \ at \ 28 \ and \ gradually \ increasing \ to \ 35 \ at \ 50,000 \ hrs \ when \ using \ 33L \ system.$