LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

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. 90% LED lumen maintenance at 60,000 hours (L90/60,000). 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 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 FSL luminaires using standard CAT-5 cabling. 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.

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.

FS Series

2FSL4

2' x 4'
LED

CSA+ CAPABLE · eldoLED · DLC PREMIUM · nLight®

Stock Configurations
2FSL4 40L EZ1 LP835
2FSL4 40L EZ1 LP840

CSA+ 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

2FSL4 LED Recessed Lighting 2'x4'

A+ Capable options indicated by this color background.

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

2FSL4									
Series	**Air function**	**Lumens**	**Lens**	**Voltage**	**Driver**	**Color temperature**	**Controls**[5]	**Options**	
2FSL4 2X4 FSL	(blank) Static H Heat removal	30L 3000[1] 40L 4000[1] 48L 4800[1] 60L 6000[1] 72L 7200[1]	(blank) Satin white	(blank) MVOLT 347 347[2]	EZ1 eldoLED dims to 1%, 0-10V EZB eldoLED dims to black, 0-10V EDB eldoLED DALI[3] EXB eldoLED DMX/RDM[3] SLD Step-level dimming[3,4] EXA1 Dims to 1%, XPoint wireless enabled EXAB Dims to dark, XPoint wireless enabled EOHN On/Off (non-dim)	LP830 3000 K LP835 3500 K LP840 4000 K LP850 5000 K	(blank) No controls N80 nlight® with 80% lumen management N80EMG nlight® with 80% lumen management. For use with generator supply EM power. N100 nlight® without lumen management N100EMG nlight® without lumen management. For use with generator supply EM power.	EL7L 700 lumen battery pack EL14L 1400 lumen battery pack CP Chicago plenum PWS1836 6' prewire, 3/8" diameter, 18-gauge, 1-circuit PWS1846 6' prewire, 3/8" diameter, 18-gauge, 2-circuit RRL_ RELOC®-ready luminaire[6] NPLT Narrow pallet	

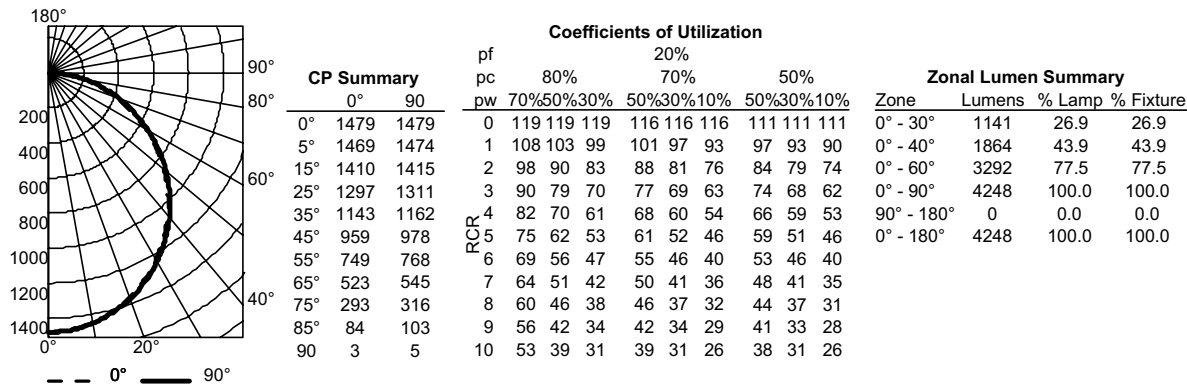| **Accessories:** *Order as separate catalog number.*	
2FS4 F916	Trim to adjust fixture mounting flush with 9/16" T-bar; for 2x4 fixture
DGA24 FS/VT	Drywall ceiling adaptor , unit installation

Notes
1. Approximate lumen output.
2. Consult factory for availability. Not available with SLD, EL7L, or EL14L.
3. Not available with N80, N80EMG, N100 or N100EMG.
4. When using prewire option, use PWS1846.
5. nIO access limitations on 30L or EZB.
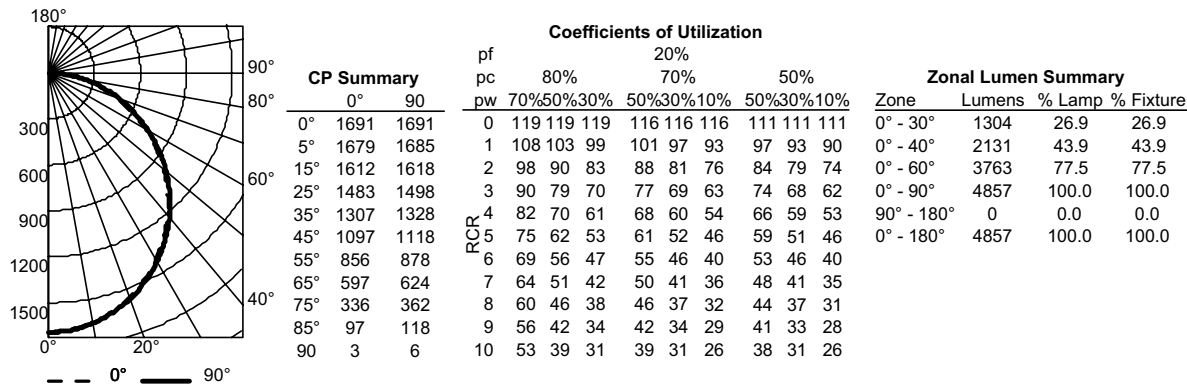6. For ordering logic consult: RRL_2013.

2FSL4 LED Recessed Lighting 2'x4'

Performance Data			
Lumen package	Input watts [1]	Lumens	LPW
30L LP830	30.7	3170	103
30L LP835	30.8	3341	108
30L LP840	30.9	3430	111
30L LP850	31.0	3664	118
40L LP830	39.2	3994	102
40L LP835	39.4	4247	108
40L LP840	39.5	4368	111
40L LP850	39.6	4637	117
48L LP830	46.2	4596	100
48L LP835	46.4	4856	105
48L LP840	46.6	4995	107
48L LP850	46.7	5347	115
60L LP830	52.0	5071	98
60L LP835	52.2	5373	103
60L LP840	52.4	5531	106
60L LP850	52.5	5867	112
72L LP830	69.5	6758	97
72L LP835	70.0	6847	98
72L LP840	70.2	7433	106
72L LP850	70.3	7823	111

PHOTOMETRICS

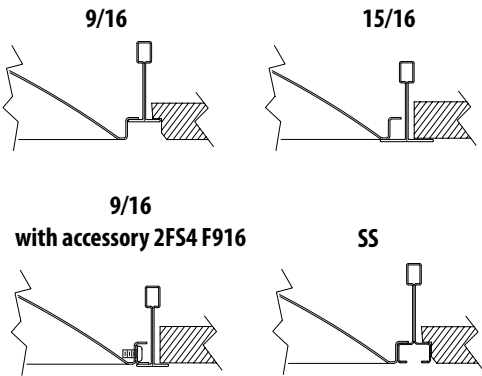**2FSL4 40L LP835,** test no. LTL24699P5, tested in accordance to IESNA LM-79

Coefficients of Utilization

CP Summary			pf pc pw	80%			70%			50%		
	0°	90		70%	50%	30%	50%	30%	10%	50%	30%	10%
0°	1479	1479	0	119	119	119	116	116	116	111	111	111
5°	1469	1474	1	108	103	99	101	97	93	97	93	90
15°	1410	1415	2	98	90	83	88	81	76	84	79	74
25°	1297	1311	3	90	79	70	77	69	63	74	68	62
35°	1143	1162	4	82	70	61	68	60	54	66	59	53
45°	959	978	5	75	62	53	61	52	46	59	51	46
55°	749	768	6	69	56	47	55	46	40	53	46	40
65°	523	545	7	64	51	42	50	41	36	48	41	35
75°	293	316	8	60	46	38	46	37	32	44	37	31
85°	84	103	9	56	42	34	42	34	29	41	33	28
90	3	5	10	53	39	31	39	31	26	38	31	26

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1141	26.9	26.9
0° - 40°	1864	43.9	43.9
0° - 60°	3292	77.5	77.5
0° - 90°	4248	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	4248	100.0	100.0

2FSL4 48L LP835, test no. LTL24699P9, tested in accordance to IESNA LM-79

Coefficients of Utilization

CP Summary			pf pc pw	80%			70%			50%		
	0°	90		70%	50%	30%	50%	30%	10%	50%	30%	10%
0°	1691	1691	0	119	119	119	116	116	116	111	111	111
5°	1679	1685	1	108	103	99	101	97	93	97	93	90
15°	1612	1618	2	98	90	83	88	81	76	84	79	74
25°	1483	1498	3	90	79	70	77	69	63	74	68	62
35°	1307	1328	4	82	70	61	68	60	54	66	59	53
45°	1097	1118	5	75	62	53	61	52	46	59	51	46
55°	856	878	6	69	56	47	55	46	40	53	46	40
65°	597	624	7	64	51	42	50	41	36	48	41	35
75°	336	362	8	60	46	38	46	37	32	44	37	31
85°	97	118	9	56	42	34	42	34	29	41	33	28
90	3	6	10	53	39	31	39	31	26	38	31	26

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1304	26.9	26.9
0° - 40°	2131	43.9	43.9
0° - 60°	3763	77.5	77.5
0° - 90°	4857	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	4857	100.0	100.0

MOUNTING DATA
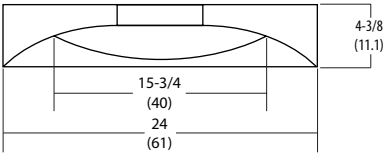
9/16

15/16

9/16
with accessory 2FS4 F916

SS

DIMENSIONS

All dimensions are inches (centimeters) unless otherwise specified.

Specifications	
Length:	48 (122.0)
Width:	24 (61.0)
Depth:	4-3/8 (11.1)

4-3/8 (11.1)

15-3/4 (40)

24 (61)

nLight® Control Accessories: *Order as separate catalog number. Visit www.sensorswitch.com/nLight 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		CAT5 10FT J1
		15', CAT5 15FT		CAT5 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.

Without Lumen Management
Energy is wasted and light level is inconsistent.

POWER INPUT

LIGHT OUTPUT

Wasted Energy

46W

37W

LIGHT OUTPUT

POWER INPUT

100%

80%

0   10   20   30   40   50
THOUSAND OPERATING HOURS

With Lumen Management
Energy is saved and light level remains consistent.

Saved Energy

POWER INPUT

LIGHT OUTPUT

46W

37W

LIGHT OUTPUT

POWER INPUT

100%

80%

0   10   20   30   40   50
THOUSAND OPERATING HOURS
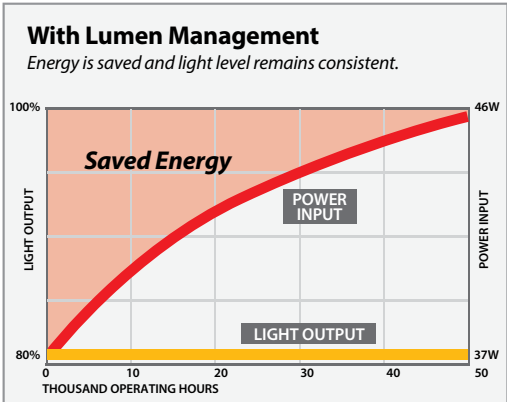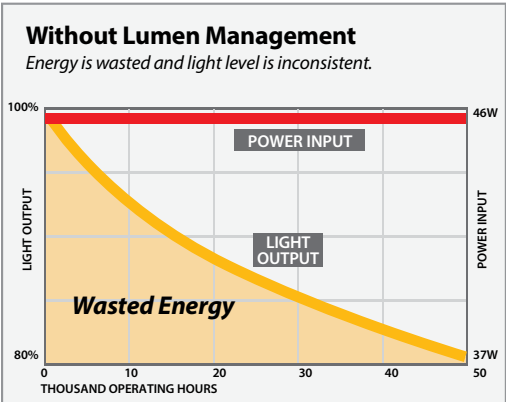
Notes

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

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