

FEATURES & SPECIFICATIONS

INTENDED USE

Specification premium, high performance, static T8 luminaires provide general illumination for recessed applications; ideal for restricted plenum spaces.

ATTRIBUTES

Designed exclusively for use with T8 lamps, electronic ballasts and sockets.

CONSTRUCTION

Smooth hemmed sides and smooth, inward formed end flanges for safe handling. Lighter weight fixture allows safe, easy installation.

Standard steel door frame has superior structural integrity with premium extruded appearance and precision flush mitered corners. Steel door allows easy lens replacement without frame disassembly (for lenses up to .156" thick). Powder-painted, steel latches provide easy, secure door closure.

Superior mechanical light seal requires no foam gasketing. Integral T-bar clips secure fixture to T-bar system. Housing formed from cold-rolled steel. Acrylic shielding material 100% UV stabilized. No asbestos is used in this product.

US PATENTS: 6,210,025; 6,231,213; 6,213,625; 2,288,471.

FINISH

Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with highly reflective matte white enamel.

OPTICAL

A12 lens features reverse apex technology for superior lamp obscuration and improved visual comfort.

ELECTRICAL SYSTEM

Standard ballast is electric, thermally protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA certified ballast, universal voltage and sound rated A.

Luminaire is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.

LISTING

Standard: UL. Optional: Canada — CSA or cUL; Mexico — NOM.

WARRANTY

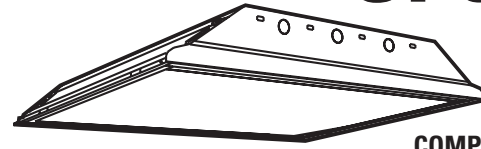
Guaranteed for one year against mechanical defects in manufacture.

Specifications subject to change without notice.

Catalog Number	
Notes	Type

Specification Premium T8 Troffer

SP8 2'x2'



**COMPACT FLUORESCENT,
STRAIGHT AND U LAMPS**

2, 3, 4 Lamps
CF or T8 only

Specifications

Length: 24 (609)
Width: 24 (609)
Depth: 3-11/16 (94)
Weight: 15 lbs (7 kg)



All dimensions are inches (millimeters).

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: 2SP8 G 3 U31 A12125 120 1/3 GEB

2SP8							
Series	Number of lamps	Door frame		Voltage	Options ³		
2SP8 2' wide	2	(blank)	Flush steel, white	120	1/4	One 4-lamp ballast	
	3	FN	Flush aluminum, natural	277	1/3	One 3-lamp ballast	
	4 ¹	FM	Flush aluminum, matte black	347	GEB10IS	Electronic ballast, ≤10% THD, instant start	
	Not included.	FW	Flush aluminum, white	MVOLT	GEB10RS	Electronic ballast, ≤10% THD, rapid start	
Trim type	Lamp type	RN	Regressed aluminum, natural	Others available.	EL	Emergency battery pack (nominal 300 lumens)	
		RM	Regressed aluminum, matte black		EL14	Emergency battery pack (nominal 1400 lumens)	
		RW	Regressed aluminum, white		GLR	Internal fast-blow fuse	
					GMF	Internal slow-blow fuse	
G Grid	17				LST	Tandem-wired fixture pairs (shared ballasts)	
F Overlapping flanged	U31				PWS1836	6' prewire, 3/8" dia., 18-gauge, 1 circuit	
MT Modular fit-in	U316				LP735	Lamped, 700-series, 3500K	
	CF40				LP__	Lamped, specify lamp type and color	
					JP	Palletized and stretch-wrapped without individual cartons; grid trim only	
					CSA	CSA Certified	
					NOM	NOM Certified	

NOTES:

1

Four-lamp models available with 17W straight tubes only.

2

Not available on 3-lamp models. Use U31.

3

MVOLT standard for 120-277V applications, 50-60 hz operation. Some options require voltage specified.

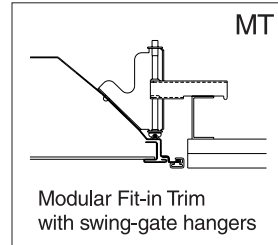
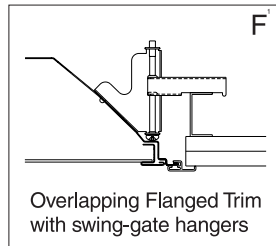
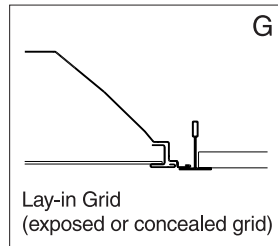
NOTES:

- Four-lamp models available with 17W straight tubes only.
- Not available on 3-lamp models. Use U31.
- MVOLT standard for 120-277V applications, 50-60 hz operation. Some options require voltage specified.

SP8 2'x2' Static T8 Troffer

MOUNTING DATA

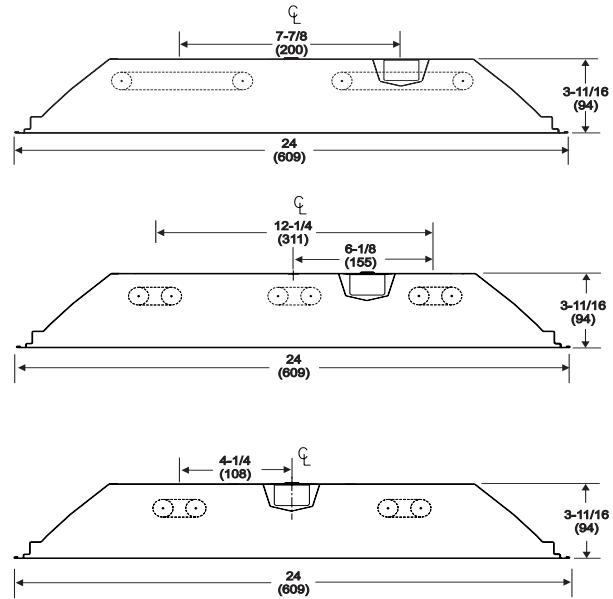
Continuous row mounting of flanged units requires CRE and CRM trim options (see Options).



NOTE:

- 1 Recommended rough-in dimensions for F-trim fixtures 24"x24". (Tolerance is +1/4"-0".)
Swing-gate range 1-3/16" to 3-15/16". Swing-gate span 23-3/8" to 26-11/16". Fixture swing-gate points require additional 9/16" over nominal fixture height.

DIMENSIONS



PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedure. Floor reflectances are 20%.
Lamp configurations shown are typical. Full photometric data on these and other configurations available upon request.

2SP8 2CF40 A12*

Report LTL 7538RP

Lumens per lamp - 3150 – Lum. eff. - 86.0%

S/MH (along) 1.2 (across) 1.4

Coefficient of Utilization

Ceiling	80%	70%	50%	30%	10%
Wall	70%	50%	30%	10%	
0	102	102	100	100	96
1	95	91	88	86	85
2	87	81	75	74	76
3	80	72	66	78	68
4	74	64	58	72	63
5	68	58	51	67	57
6	63	53	46	62	52
7	59	48	41	58	47
8	55	44	37	54	43
9	52	41	34	50	40
10	48	37	31	47	37

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1811	28.7	33.4
0-40	2989	47.5	55.2
0-60	4700	74.6	86.8
0-90	5418	86.0	100.0
90-180	0	0	0
0-180	5418	86.0	100.0

2SP8 2U31 A12*

Report LTL 7547

Lumens per lamp - 2800 – Lum. eff. - 75.4%

S/MH (along) 1.2 (across) 1.4

Coefficient of Utilization

Ceiling	80%	70%	50%	30%	10%
Wall	70%	50%	30%	10%	
0	90	90	88	88	84
1	83	80	77	81	78
2	76	71	66	74	69
3	70	63	57	68	62
4	65	56	50	63	55
5	60	51	44	58	50
6	55	46	40	54	45
7	52	42	36	50	41
8	48	38	32	47	38
9	45	35	29	44	35
10	42	33	27	41	32

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1396	24.9	33.1
0-40	2302	41.1	54.5
0-60	3654	65.3	86.6
0-90	4220	75.4	100.0
90-180	0	0	0
0-180	4220	75.4	100.0

2SP8 2 U315 A12

Report LTL 8579

Lumens per lamp - 2600 – Lum. eff. - 72.8%

S/MH (along) 1.2 (across) 1.3

Coefficient of Utilization

Ceiling	80%	70%	50%	30%	10%
Wall	70%	50%	30%	10%	
0	87	87	87	85	85
1	80	77	74	78	75
2	73	68	63	72	67
3	68	61	55	66	59
4	62	54	48	61	53
5	58	49	43	56	48
6	53	44	38	52	44
7	50	40	34	49	40
8	46	37	31	45	37
9	43	34	28	42	34
10	41	32	26	40	31

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1266	24.4	33.4
0-40	2059	39.6	54.4
0-60	3246	62.4	85.7
0-90	3787	72.8	100.0
90-180	0	0	0
0-180	3787	72.8	100.0

Energy (Calculated in accordance with NEMA standard LE-5)

LER.FL	ANNUAL ENERGY COST*	LAMP DESCRIPTION	LAMP LUMENS	BALLAST FACTOR	WATTS
62	\$3.87	(2) 40W T5	3150	.88	76
63	\$3.80	(2) 31W T8U	2800	.88	60

* Comparative yearly lighting energy cost per 1000 lumens

* With reverse apex lens



An Acuity Brands Company

Sheet #: SP8-2x2

©1999 Acuity Brands Lighting, Inc., Rev. 8/23/07

Lithonia Lighting
Fluorescent

One Lithonia Way, Conyers, GA 30012
Phone: 800-858-7763 Fax: 770-929-8789
www.lithonia.com