

FEATURES

- Optical performance designed for T8 lamp technology
- 2½" minimum spacing from bottom of lamp to bottom of lens
- Mechanical light seal
- Mitered corners on door present a clean uninterrupted appearance
- Spring loaded latches optional
- Rolled fixture edges reduce risk of injury during fixture handling and installation
- Snap-in ballast covers can be removed when lamps are installed
- Corner hinging for easy insertion and removal of door frame from either side
- Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches
- Housing ends secured by unique corner interlock and screws

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

HOUSING

Heavy gauge steel. Die formed for extra rigidity. Grid housings are designed for installation in standard 1½" T-Bar ceilings. T-Bar clips are available as an option. Flanged housings for hard ceilings feature overlap flange trim and wing hangers.

BALLASTS

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, unless otherwise specified.

FINISH

All parts are pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pretreatment for maximum adhesion and rust resistance.

SHIELDING

100% clear prismatic acrylic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924.

ORDERING INFORMATION

EXAMPLE ST822-232U6G-FSA12-EU-EL

MODEL	NO. OF LAMPS	CEILING TYPE	SHIELDING	VOLTAGE	OPTIONS
ST8 Shallow Specification Troffer	2 Two 3 Three 4 Four	G Inverted T-Bar F Overlap Flange	A12 Pattern 12 Acrylic 0.100" Nominal (Standard) A12.125 Pattern 12 Acrylic 0.125" Nominal A19 Pattern 19 Acrylic 0.15" Male Prism PC1 Silver Parabolic Louver ½" x ½" x ½" PC2 Silver Parabolic Louver 1½" x ½" x 1"	U 120V-277V 347 347V	F0830U1 T8 U Lamps, 1⅝" Leg Spacing, 80CRI, 3000K, Furnished/Installed F0835U1 T8 U Lamps, 1⅝" Leg Spacing, 80CRI, 3500K, Furnished/Installed F0841U6 T8 U Lamps, 6" Leg Spacing, 80CRI, 4100K, Furnished/Installed F0730U6 T8 U Lamps, 6" Leg Spacing, 70CRI, 3000K, Furnished/Installed F0735U6 T8 U Lamps, 6" Leg Spacing, 70CRI, 3500K, Furnished/Installed F0741U6 T8 U Lamps, 6" Leg Spacing, 70CRI, 34100K, Furnished/Installed
	SIZE 22 2' x 2'	LAMP TYPE 17 2', T8: 17 Watt (2, 3, 4 lamps) 31U1 U-Bent, 1⅝" Leg Spacing T8: 31 Watt (2 lamps) 32U6 U-Bent, 6" Leg Spacing T8: 32 Watt (2, 3 lamps) 40TT Twin Tube Compact Fluorescent: 40 Watt (2, 3 lamps)	DOOR STYLE FS Flush Steel FA Flush Aluminum RA Regressed Aluminum PS Premium Steel		GLR Fast Blow Fuse EL Emergency Battery Pack* PAF Paint After Fabrication SLL Spring Loaded Latches C388 ⅜" Flex with 3 No. 18 Wires C384 ⅜" Flex with 3 No. 14 Wires C488 ⅜" Flex with 4 No. 18 Wires C424 ½" Flex with 4 No. 14 Wires NYC NYC Compliant NYCU NYC Compliant, Union Label
			BALLAST E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start ETT Electronic Twin Tube, Instant Start (Specify Voltage)		

* 3-Lamp fixture utilizes 2 ballast compartments and can mount any standard battery pack. 2- and 4-Lamp fixtures can only mount one ballast and one 9" long or shorter battery pack. All other battery packs must be externally mounted.

For complete list of lenses and louvers, see Options and Accessories.
For specific ballast vendor, show as option.

For a complete set of options, see Options and Accessories.

PHOTOMETRIC DATA

Test 12587 Test Date 1/08/03

LUMINAIRE DATA

Luminaire	ST822-232U6G-FSA12-E-PAF ST8 Lensed Troffer 2' x 2' 2-Lamp With A12 Lens
Ballast	E2/3215-120
Ballast Factor	0.88
Lamp	F31T8U6
Lumens per Lamp	2850
Total Input Watts	54
Shielding Angle	N/A
Spacing Criterion	0° = 1.21 90° = 1.30

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1409	24.7	31.4
0-40	2290	40.2	51.1
0-60	3794	66.6	84.6
0-90	4483	78.6	100.0
0-180	4483	78.6	100.0

ENERGY DATA

Total Luminaire Efficiency	78.6%
Luminaire Efficacy Rating (LER)	73
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.29 based on 3000 hrs. and \$0.08 per KWH

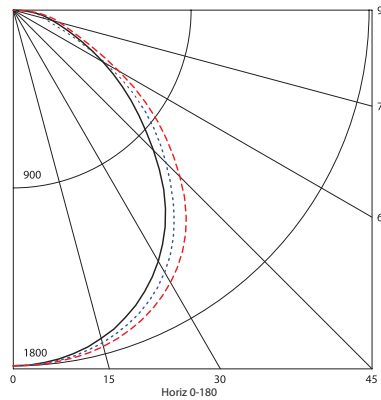
COEFFICIENTS OF UTILIZATION (%)

RCR	80			70			50			0	
	RW	70	50	30	10	70	50	30	10	0	
1	86	83	80	77	84	81	78	75	78	75	67
2	79	73	68	64	77	71	67	63	69	65	57
3	72	65	59	54	71	63	58	53	61	56	49
4	67	58	51	46	65	57	51	46	55	49	42
5	62	52	45	40	60	51	45	40	49	44	37
6	57	47	40	35	55	46	40	35	45	39	33
7	53	43	36	31	52	42	36	31	41	35	29
8	49	39	33	28	48	39	32	28	38	32	26
9	46	36	30	25	45	35	29	25	35	29	24
10	43	33	27	23	42	33	27	23	32	27	21

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

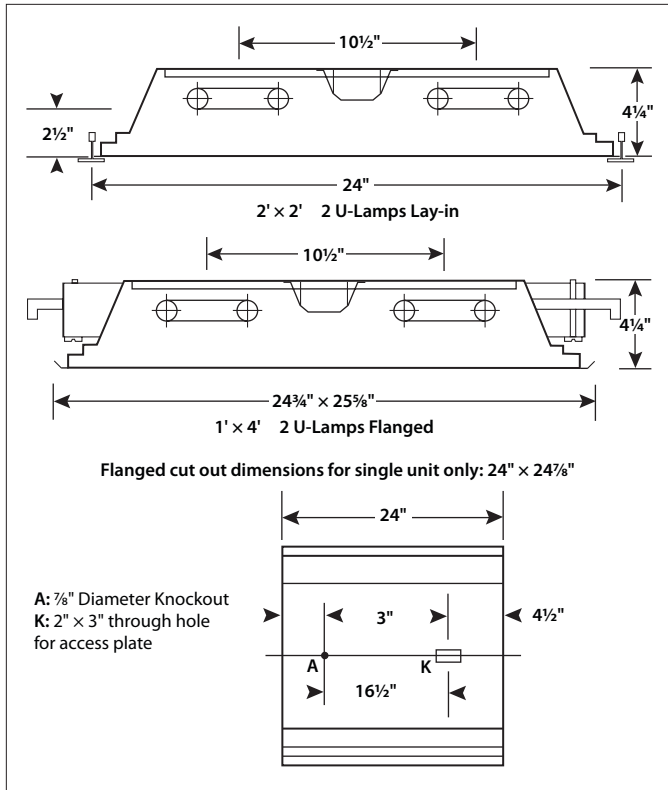
INDOOR CANDELA PLOT



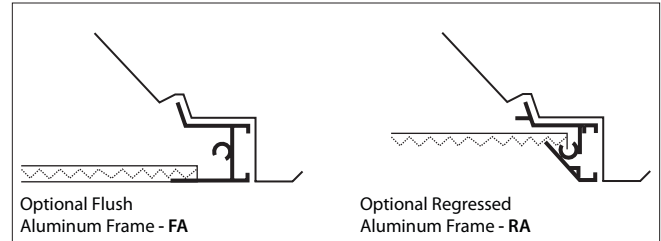
AVG. LUMINANCE (Candela/Sq. M.)

Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	5779	5779	5779	5779	5779
30	5441	5523	5682	5838	5901
40	4968	5052	5274	5547	5710
45	4555	4696	4964	5250	5418
50	4150	4305	4635	4895	5045
55	3771	3816	4192	4405	4595
60	3362	3246	3503	3773	3973
65	2951	2692	2723	3194	3346
70	2660	2321	2114	2866	2979
75	2571	2248	2012	2782	3030
80	2758	2351	2406	2999	3350
85	2840	2618	2545	3540	3504

DIMENSIONAL DATA



DOOR FRAMES



PRODUCT AVAILABILITY TABLE

NOMINAL SIZE	NO. OF LAMPS	LAMP TYPE
2' x 2'	2	17, 31U1, 32U6, F40TT
	3	17, 31U1, F40TT
	4	17

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.