



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 15/16" 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. CEE NEMA Premium compliant.

ELECTRICAL

Standard class "P," thermally protected, autoresetting HPF ballast, sound rated A. CEE NEMA Premium compliant. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

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

ST8		22		-		-		-		-		-	
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" × ½" × ½" PC2 Silver Parabolic Louver 1½" × 1½" × 1"		U 120V-277V 347 347V		GLR Fast Blow Fuse EL Emergency Battery Pack* PAF Paint After Fabrication SLL Spring Loaded Latches C388 ¾" Flex with 3 No. 18 Wires C384 ¾" Flex with 3 No. 14 Wires C488 ¾" Flex with 4 No. 18 Wires C424 ½" Flex with 4 No. 14 Wires CP Chicago Plenum			
SIZE		LAMP TYPE		DOOR STYLE		For complete list of lenses and louvers, see Options and Accessories.							
22 2' × 2'		14 2', T5; 14 Watt (2, 3, 4-Lamps) 17 2', T8; 17 Watt (2, 3, 4-Lamps) 24 2', T5HO; 24 Watt (2, 3-Lamps) 31U1 U-Bent, 1½" Leg Spacing T8: 31 Watt (2, 3-Lamps) 32U6 U-Bent, 6" Leg Spacing T8: 32 Watt (2 Lamps) 40TT Twin Tube Compact Fluorescent: 40 Watt (2, 3-Lamps)		FS Flush Steel FA Flush Aluminum RA Regressed Aluminum PS Premium Steel									
BALLAST													
E Electronic T8, Instant Start													
EP Electronic T5 or T8, Programmed Start													
3E 3-Lamp Electronic T8, Instant Start													
3EP 3-Lamp Electronic T5HO or T8, Programmed 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.

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PHOTOMETRIC DATA

Test 12587 Test Date 1/08/03

LUMINAIRE DATA

Luminaire	ST822-232U6G-FSA12
	ST8 Lensed Troffer
	2' x 2' 2-Lamp With A12 Lens
Ballast	E2/32IS-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

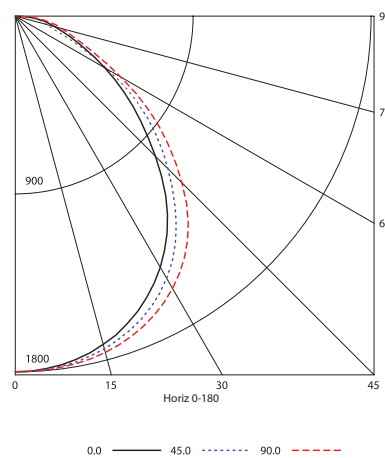
COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80					70					50					0
		RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
1	86	83	80	77	74	71	84	81	78	75	78	75	73	70	67	64	61
2	79	73	68	64	61	58	77	71	67	63	69	65	61	57	54	51	48
3	72	65	59	54	51	48	71	63	58	53	61	56	52	49	46	43	40
4	67	58	51	46	42	39	65	57	51	46	55	49	45	42	39	36	33
5	62	52	45	40	36	33	60	51	45	40	49	44	40	37	34	31	28
6	57	47	40	35	31	28	55	46	40	35	45	39	35	32	29	26	23
7	53	43	36	31	27	24	52	42	36	31	41	35	31	28	25	22	19
8	49	39	33	28	24	21	48	39	32	28	38	32	28	25	22	19	16
9	46	36	30	25	21	18	45	35	29	25	35	29	25	22	19	16	13
10	43	33	27	23	19	16	42	33	27	23	32	27	23	20	17	14	11

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

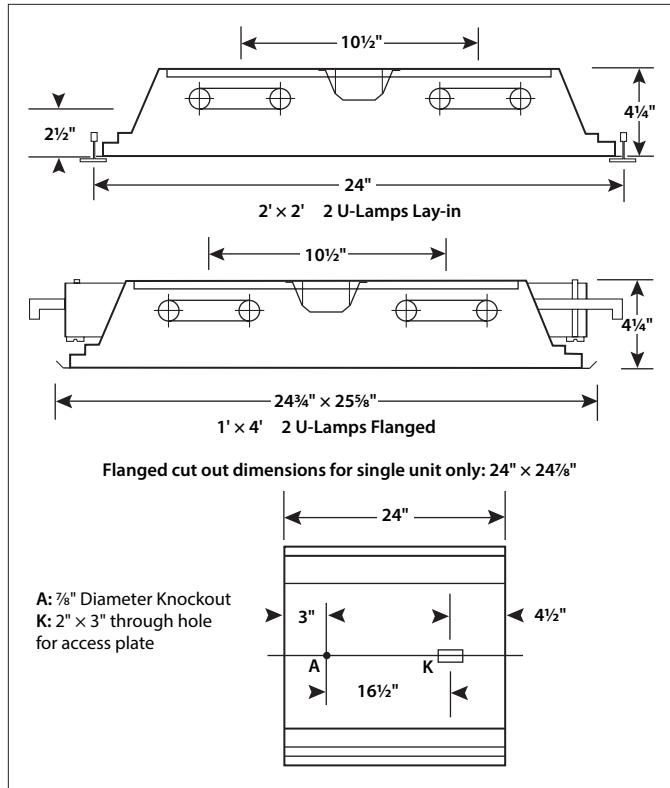
INDOOR CANDELA PLOT



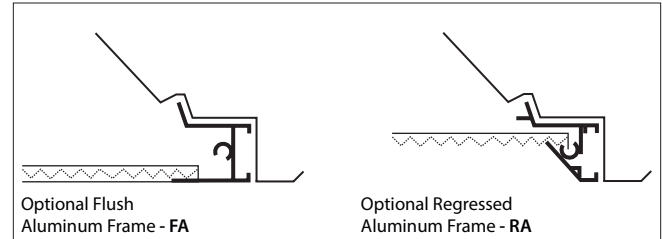
AVG. LUMINANCE (Candela/Sq. M.)

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	14, 17, 31U1, 32U6, F40TT
	3	14, 17, 31U1, F40TT
	4	14, 17

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