

PREMIUM STATIC TROFFER

EP

CATALOG #:	TYPE:
PROJECT:	NOTES:

T5 | T8

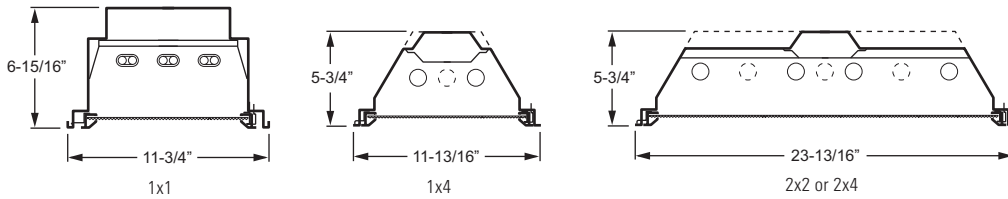


EXAMPLE

EP G - S 2 2 - 2 32U - R A12125 - OPTIONS - EB2 - UNV

SERIES	CEILING TYPE	FIX. STYLE	NOM. W.	NOM. L.	TOTAL LAMPS	WATTAGE/TYPE	DOOR FRAME	SHIELDING	OPTIONS	BALLAST TYPE	VOLTAGE
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CROSS SECTIONS



FEATURES

- ▶ Fully-enclosed spring-loaded cam latches allow years of hassle-free maintenance.
- ▶ T-slot steel hinge ensures positive retention when door is opened.
- ▶ T-slot steel hinge allows reversible hinging and latching.
- ▶ 5-3/4" deep housing with raised ballast wireway eliminates lens shadowing (1x4, 2x2, and 2x4).
- ▶ Deep reinforcement ribs (1x4, 2x2, 2x4) and rolled-edge channel (1x1) provide added strength.
- ▶ Fully gasketed door minimizes contaminants.
- ▶ Ballast secured by two captive bolts and nuts to ensure a tight, reliable fit for maximum heat dissipation.
- ▶ All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ▶ This fixture is proudly made in the USA.

ORDERING INFORMATION

SERIES
EP Premium Static Troffer (no air handling)

CEILING TYPE
G NEMA Type "G"
F NEMA Type "F"

FIXTURE STYLE
S Full door frame—no reveal
D Black reveal (1' x 1' only)

NOMINAL WIDTH
1 1'
2 2'

NOMINAL LENGTH
1 1' (1' width only)
2 2' (2' width only)
4 4'

TOTAL LAMPS
1, 2, or 3 (1' x 1', 1' x 4' only)
2, 3, or 4 (2' x 2' only)
2, 3, 4, or 6 (2' x 4' only)

LAMP WATTAGE/TYPE

1x1 LAMP OPTIONS
13T4 13-watt compact fluorescent
16UN 16-watt T8, 10-1/2", U-bent, 1-5/8" leg spacing
18TT 18-watt, 10-1/2", twin tube (RS)
26T4 26-watt compact fluorescent
382D 38-watt 2D lamp

2x2 LAMP OPTIONS
14T5S 2', 14-watt T5
17 2', 17-watt T8
24T5H 2', 24-watt T5HO
31UN 2', U-bent, 31-watt T8, 1-5/8" leg spacing
32U 2', U-bent, 32-watt T8, 6" leg spacing
40TT 2', 40-watt long twin tube

LAMP WATTAGE/TYPE (Continued)

1x4 or 2x4 LAMP OPTIONS
28T5S 4', 28-watt T5
32 4', 32-watt T8
54T5H 4', 54-watt T5HO (4 lamps max. in 2' x 4')

DOOR FRAME
F White flat aluminum
R White regress aluminum
FB Black flat aluminum
RB Black regress aluminum

SHIELDING
A12125 Acrylic, pattern #12, .125" thick
A19156 Acrylic, pattern #19, .156" thick
PC1SS Parabolic louver, silver styrene, nominal 1/2" x 1/2" x 1/2"
PC2SS Parabolic louver, silver styrene, nominal 1-1/2" x 1-1/2" x 1" (not available for 1' x 1')

OPTIONS
For generic EM ballast options (must specify voltage), see [Technical Info](#).
For flexible whip options, see [Technical Info](#).
DG Double gasket (flat aluminum door only)
TG Triple gasket (flat aluminum door only; field installed)
WET UL/CUL listed for wet location under covered ceiling with flat aluminum door only (not available on 1x1)
CP Chicago Plenum (CCEA)

BALLAST TYPE
Additional ballast options available, see [Technical Info](#).
EB1 1-lamp electronic ballast
EB2 2-lamp electronic ballast
EB3 3-lamp electronic ballast
EB4 4-lamp electronic ballast
EB3/3 (2) 3-lamp electronic ballasts

VOLTAGE
120 120V
277 277V
UNV 120-277V
347 347V

PHOTOMETRY – 1x1

Catalog #: EPG-D11-218TT-RA12125-EB2-120

SPECIFICATIONS

Housing – 22-gauge die-formed C.R.S.
Door Frame – .050" extruded aluminum, flat or regress, with mitered corners. T-slot steel hinge allows reversible hinging and latching. Fully enclosed spring-loaded cam latches.
Shielding – Acrylic, pattern #12, .125" thick.
Finish – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

Electrical – Electronic ballast standard, instant start T8, program start T5, rated Class P.

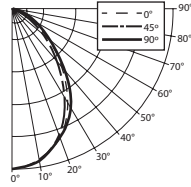
Mounting – NEMA Type "G" standard. NEMA Type "F" available.

Labels –

- UL/CUL listed as recessed fluorescent luminaire suitable for dry or damp locations (EP 1x1 is UL listed only).
- UL/CUL listed as suitable for wet location under covered ceiling when specified with WET option (not available on EP 1x1).
- City of Chicago Environmental Air approved when specified with CP option.

TEST REPORT INFORMATION

- Test Report #: 6547.0
- Date: 06/05/91
- Lamp Type: FT18W/2G11/RS/835
- Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	576.	576.	576.	
5°	573.	569.	568.	54.3
15°	527.	532.	526.	149.9
25°	447.	460.	468.	211.0
35°	320.	345.	379.	218.2
45°	195.	226.	236.	171.1
55°	104.	111.	126.	102.7
65°	61.	43.	64.	52.5
75°	37.	31.	39.	35.7
85°	5.	6.	7.	6.3
90°	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	415.	16.6	41.5
0 - 40	633.	25.3	63.2
0 - 60	907.	36.3	90.6
0 - 90	1002.	40.1	100.0
Total Luminaire:			
0 - 180	1002.	40.1	100.0
Total Luminaire Optical Efficiency: 40.1% IES Spacing Criteria: Across = 1.1 Along = 1.0			

ZONAL CAVITY COEFFICIENTS

	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
Room Cavity Ratio	0	.48	.48	.48	.47	.47	.47	.45	.45	.45
	1	.45	.43	.42	.44	.42	.41	.41	.40	.39
	2	.42	.39	.37	.41	.38	.37	.37	.35	.34
	3	.39	.36	.33	.38	.35	.33	.34	.32	.30
	4	.36	.32	.29	.35	.32	.29	.31	.29	.27
	5	.34	.29	.26	.33	.29	.26	.28	.26	.24
	6	.31	.27	.24	.31	.26	.24	.26	.23	.21
	7	.29	.24	.21	.29	.24	.21	.24	.21	.19
	8	.27	.22	.19	.26	.22	.19	.21	.19	.17
	9	.25	.20	.17	.25	.20	.17	.19	.17	.15
	10	.23	.18	.16	.23	.18	.15	.18	.15	.14

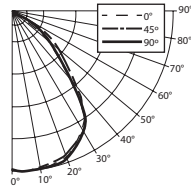
Effective Floor Cavity Reflectance = .20

PHOTOMETRY – 1x4

Catalog #: EPG-S14-232-RA12125-EB2-120

TEST REPORT INFORMATION

- Test Report #: 3134.0
- Date: 04/13/83
- Lamp Type: F32T8/41K
- Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1897.	1897.	1897.	
5°	1925.	1928.	1926.	183.9
15°	1886.	1902.	1919.	539.2
25°	1764.	1802.	1805.	829.0
35°	1533.	1550.	1528.	969.2
45°	1011.	934.	882.	735.4
55°	631.	415.	520.	418.4
65°	266.	164.	221.	196.7
75°	97.	118.	77.	119.8
85°	35.	31.	18.	34.2
90°	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1552.	26.8	38.6
0 - 40	2521.	43.5	62.6
0 - 60	3675.	63.4	91.3
0 - 90	4026.	69.4	100.0
Total Luminaire:			
0 - 180	4026.	69.4	100.0
Total Luminaire Optical Efficiency: 69.4% IES Spacing Criteria: Across = 1.3 Along = 1.3			

ZONAL CAVITY COEFFICIENTS

	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
Room Cavity Ratio	0	.83	.83	.83	.81	.81	.81	.77	.77	.77
	1	.77	.75	.73	.76	.73	.71	.70	.69	.67
	2	.72	.68	.64	.71	.67	.63	.64	.61	.59
	3	.67	.61	.57	.66	.60	.56	.58	.55	.52
	4	.63	.56	.51	.61	.55	.50	.53	.49	.46
	5	.58	.50	.45	.57	.50	.45	.48	.44	.41
	6	.54	.46	.41	.53	.45	.40	.44	.40	.36
	7	.50	.42	.36	.49	.41	.36	.40	.36	.32
	8	.46	.38	.32	.45	.37	.32	.36	.32	.29
	9	.43	.34	.29	.42	.34	.29	.33	.28	.25
	10	.40	.31	.26	.39	.31	.26	.30	.26	.22

Effective Floor Cavity Reflectance = .20

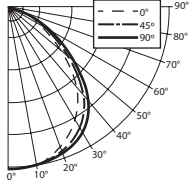


PHOTOMETRY – 2x2

Catalog #: EPG-S22-232U-RA12125-EB2-120

TEST REPORT INFORMATION

- ▶ Test Report #: 8534.0
- ▶ Date: 11/15/95
- ▶ Lamp Type: FB032/835/6
- ▶ Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1986.	1986.	1986.	
5°	1989.	1986.	1980.	189.6
15°	1922.	1940.	1958.	550.7
25°	1760.	1824.	1879.	844.3
35°	1490.	1614.	1686.	1008.3
45°	1103.	1226.	1339.	948.3
55°	683.	770.	868.	697.9
65°	361.	326.	422.	354.0
75°	226.	172.	244.	210.5
85°	80.	84.	91.	91.2
90°	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1585.	26.4	32.4
0 - 40	2593.	43.2	53.0
0 - 60	4239.	70.7	86.6
0 - 90	4895.	81.6	100.0
Total Luminaire:			
0 - 180	4895.	81.6	100.0

Total Luminaire Optical Efficiency: **81.6%**
IES Spacing Criteria: Across = 1.3
Along = 1.2

ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor		
	.80	.70	.50	.70	.50	.30	.50	.30	.10
Room Cavity Ratio 0	.97	.97	.97	.95	.95	.95	.91	.91	.91
1	.90	.87	.84	.88	.85	.82	.82	.79	.77
2	.83	.78	.73	.81	.76	.72	.73	.70	.66
3	.77	.70	.64	.75	.68	.63	.66	.62	.58
4	.71	.63	.56	.69	.62	.56	.60	.54	.50
5	.66	.56	.49	.64	.55	.49	.53	.48	.44
6	.61	.51	.44	.59	.50	.43	.48	.43	.39
7	.56	.46	.39	.55	.45	.39	.44	.38	.34
8	.52	.41	.34	.50	.40	.34	.39	.34	.30
9	.47	.37	.30	.46	.36	.30	.35	.30	.26
10	.44	.33	.27	.43	.33	.27	.32	.27	.23

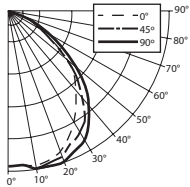
Effective Floor Cavity Reflectance = .20

PHOTOMETRY – 2x4

Catalog #: EPG-S24-332-RA12125-EB3-120

TEST REPORT INFORMATION

- ▶ Test Report #: 9042.0
- ▶ Date: 08/22/96
- ▶ Lamp Type: F32T8/SPX35/RS
- ▶ Lamp Quantity: 3



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	2918.	2918.	2918.	
5°	2898.	2892.	2909.	277.0
15°	2898.	2955.	3006.	836.4
25°	2637.	2760.	2913.	1280.4
35°	2221.	2507.	2626.	1543.2
45°	1736.	1809.	2081.	1436.9
55°	1054.	1027.	1235.	973.3
65°	566.	419.	570.	478.4
75°	293.	295.	293.	312.3
85°	112.	103.	83.	109.2
90°	0	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	2394.	27.0	33.0
0 - 40	3937.	44.5	54.3
0 - 60	6347.	71.7	87.6
0 - 90	7247.	81.9	100.0
Total Luminaire:			
0 - 180	7247.	81.9	100.0

Total Luminaire Optical Efficiency: **81.9%**
IES Spacing Criteria: Across = 1.4
Along = 1.2

ZONAL CAVITY COEFFICIENTS

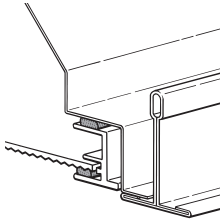
	Ceiling			Wall			Floor		
	.80	.70	.50	.70	.50	.30	.50	.30	.10
Room Cavity Ratio 0	.97	.97	.97	.95	.95	.95	.91	.91	.91
1	.91	.87	.84	.88	.86	.83	.82	.80	.78
2	.84	.78	.74	.82	.77	.72	.74	.70	.67
3	.78	.70	.65	.76	.69	.64	.67	.62	.59
4	.72	.63	.57	.70	.62	.56	.60	.55	.51
5	.66	.57	.50	.65	.56	.50	.54	.49	.45
6	.61	.51	.45	.60	.51	.44	.49	.44	.39
7	.57	.46	.40	.55	.46	.39	.44	.39	.35
8	.52	.42	.35	.51	.41	.35	.40	.34	.30
9	.48	.37	.31	.47	.37	.31	.36	.30	.26
10	.45	.34	.28	.43	.33	.27	.33	.27	.23

Effective Floor Cavity Reflectance = .20



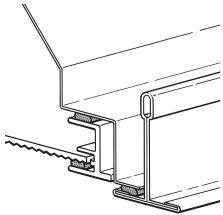
T5 | T8

GASKETING DETAILS
DOUBLE GASKETING (DG)



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens.

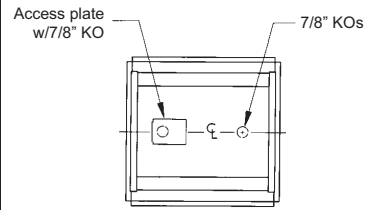
TRIPLE GASKETING (TG)



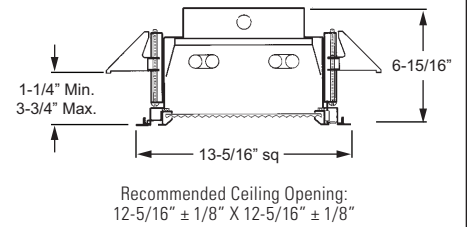
Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens. Gasketing between bottom perimeter of unit (adjacent to T-bar or hardpan ceiling) is provided by factory and field installed.

FIXTURE DETAILS

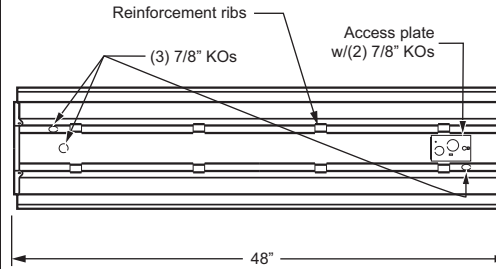
1x1 BACK VIEW



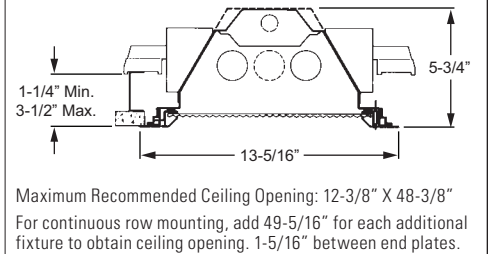
1x1 NEMA TYPE "F" INSTALLATION



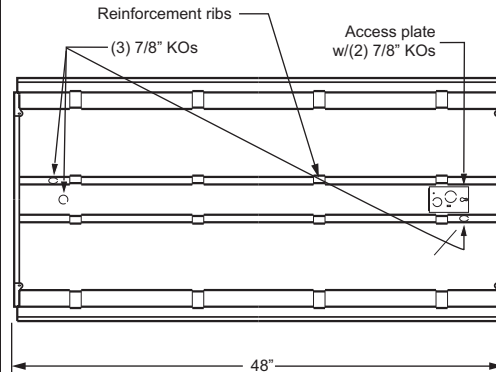
1x4 BACK VIEW



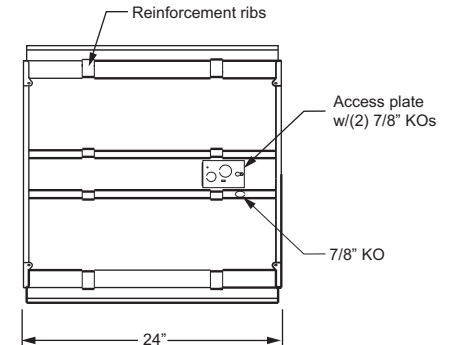
1x4 NEMA TYPE "F" INSTALLATION



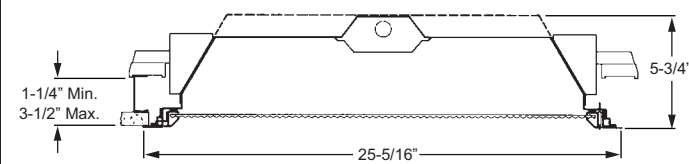
2x4 BACK VIEW



2x2 BACK VIEW



2x2 | 2x4 NEMA TYPE "F" INSTALLATION



Maximum Recommended Ceiling Opening: **2x2:** 24-3/8" X 24-3/8" **2x4:** 24-3/8" X 48-3/8"
For continuous row mounting (2x4), add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.