

**FEATURES**

- 4¾" deep fluorescent troffer eliminates lens shadowing
- Lamp-to-lens spacing is over 2"
- Contoured housing maximizes photometric performance with uniform lens brightness
- Mitered corners on door present a clean uninterrupted appearance
- Rolled edge housing on all four sides makes the fixture safer and easier to handle
- Heavy duty door frame enhances appearance from eye level
- Recessed, surface or cable mount
- UL listed 1598
- Available with exclusive wiHUBB technology preinstalled
  - Peer to peer, self-healing wireless mesh network
  - Integrated control system for 0-10VDC or step dimming, or On/Off

**PROJECT INFORMATION**

Project Name \_\_\_\_\_

Type \_\_\_\_\_

Catalog No. \_\_\_\_\_

Date \_\_\_\_\_

**CONSTRUCTION**

Housing is constructed of heavy gauge steel, die formed for extra rigidity. Standard flush door is formed steel with mitered corners. Doors are retained by cam action latches, are easily removed without tools, and hinge from either side. Regressed or flush aluminum doors with mitered corners are also available. End caps are hinged and screwed to the housing for extra rigidity. Wireway accessible from below for upgrades or maintenance.

**BALLAST & ELECTRICAL**

All luminaires are completely wired with class "P," thermally protected, resetting, HPF ballast, sound rated A. Lampholders are medium bi-pin with positive retention. Furnished with an access plate. CEE NEMA Premium compliant.

**FINISH**

All metal parts processed with a multi-stage phosphate bonding treatment and finished with a high reflectance baked white enamel. For a post painted housing finish suffix catalog number with PAF.

**SHIELDING**

Standard lens is a 100% prismatic virgin pattern 12. Other shielding may be specified. If desired shielding media is not shown in ordering guide, contact your local Hubbell Lighting representative.

**CEILING COMPATIBILITY**

Designed for recessed installation in standard inverted tee grid ceilings (G), recessed installation in hard ceilings (G with FK accessory), Surface mount at ceiling plane (SM) or cable mount suspension below ceiling plane (CM). For compatibility with specific ceilings contact your Hubbell Lighting representative.

**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 4PS22-232U6G-FSA12-EU-EL**

MODEL	NO. OF LAMPS	CEILING TYPE	SHIELDING	VOLTAGE	OPTIONS <sup>2</sup>
4PS Specification Grade Static Troffer	2 Two 3 Three 4 Four	G Inverted T-bar F Overlap Flange M Fit-in Flange SM Surface Mount CM Cable Mount <sup>1</sup>	A12 Acrylic Prismatic Pattern 12 A19 Acrylic Prismatic Pattern 19 PC1 ½" x ½" x ½" Specular Silver Polystyrene Louver PC2 1½" x 1½" x 1" Specular Silver Polystyrene Louver For thicker lens, specify - Example: A12125	U 120V-277V 347 347V	F835 35K 78+CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F5835 35K 85CRI T5 Lamps Installed GLR Fast Blow Fuse EL Emergency Battery Pack EL5 Emergency Battery Pack, T5 or T5HO PAF Paint After Fabrication SLL Spring Loaded Latches MS9 Master/Satellite Pair w/9' Harness NYC NYC Compliant NYCU NYC Compliant, Union Label WIH wiHUBB Enabled <sup>3,4</sup> EOR End of Row (2 & 4-Lamp) <sup>5</sup> INT Intermediate (2 & 4-Lamp) <sup>5</sup> CP Chicago Plenum
SIZE	LAMP TYPE	DOOR STYLE	BALLAST		
22 2' x 2'	32U6 U-Bent, T8: 32 Watt, 6" Leg Spacing (2 lamps) 31U1 U-Bent, T8: 31 Watt, 1½" Leg Spacing (2 or 3 lamps) 40TT Twin Tube Compact, 2G11 Base: 40 Watt (2 or 3 lamps) 17 2', T8: 17 Watt (2, 3, or 4 lamps) 14 2', T5: 14 Watt 24 2', T5HO: 24 Watt	FS Flush Steel FA Flush Aluminum RA Regressed Aluminum SFA Silver Flush Aluminum SRA Silver Regressed Aluminum	E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5 (HO only) or T8, Programmed Start 4EP 4-Lamp Electronic T5 (HO only) (N/A 347V) or T8, Programmed Start ETT Electronic Twin Tube, Instant Start (Specify Voltage) 3ETT 3-Lamp Electronic Twin Tube, Instant Start (Specify voltage)		
<b>ACCESSORIES (ORDER SEPARATELY)</b>					
CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' Wide CM ceiling type, 3 Wire Feed Cord					

<sup>1</sup> Order hanger accessories separately.  
<sup>2</sup> EL or other options may increase fixture depth and may not be suitable for all ceiling types.  
<sup>3</sup> Not available with Surface Mount Ceiling Types.  
<sup>4</sup> In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.  
<sup>5</sup> Provides end wiring access for continuous row mounting. Contact factory for 3-lamp configurations.

For specific ballast vendor, show as option.



### PHOTOMETRIC DATA

Test 12784 Test Date 3/28/01

#### LUMINAIRE DATA

Luminaire	4PS22-232U6G-FSA12 4PS Lensed Troffer 2' x 2' 2-Lamp with A12 Pattern Acrylic Lens
Ballast	B232I120RH
Ballast Factor	0.88
Lamp	F32T8U6
Lumens per Lamp	2850
Total Input Watts	55
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.24 90° = 1.31
Luminous Opening in Feet	Length: 1.77 Width: 1.77 Height: 0.00

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1421	24.9	31.5
0-40	2320	40.7	51.5
0-60	3830	67.2	85.1
0-90	4503	79.0	100.0
0-180	4503	79.0	100.0

#### ENERGY DATA

Total Luminaire Efficiency	79.0%
Luminaire Efficacy Rating (LER)	72
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.33 based on 3000 hrs. and \$0.08 per KWH

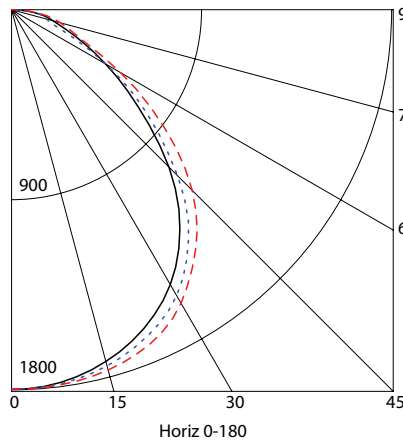
#### COEFFICIENTS OF UTILIZATION (%)

RCR	RC 80				RC 70				RC 50				RC 0			
	RW 70	50	30	10	70	50	30	10	50	30	10	0	70	50	30	10
1	87	83	80	77	84	81	78	76	78	76	73	67	84	81	78	76
2	79	73	68	64	77	72	67	63	69	65	62	57	76	73	67	63
3	73	65	59	54	71	64	58	54	62	57	53	49	67	63	57	53
4	67	58	52	47	65	57	51	46	55	50	46	43	61	57	51	47
5	62	52	46	41	60	51	45	40	50	44	40	37	57	52	46	42
6	57	47	41	36	56	47	40	36	45	39	35	33	53	48	42	38
7	53	43	36	32	52	42	36	32	41	36	31	29	50	45	39	35
8	50	39	33	28	48	39	33	28	38	32	28	26	47	41	35	31
9	46	36	30	26	45	36	30	26	35	29	25	24	44	38	32	28
10	44	33	27	23	43	33	27	23	32	27	23	22	42	36	30	26

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

#### INDOOR CANDELA PLOT

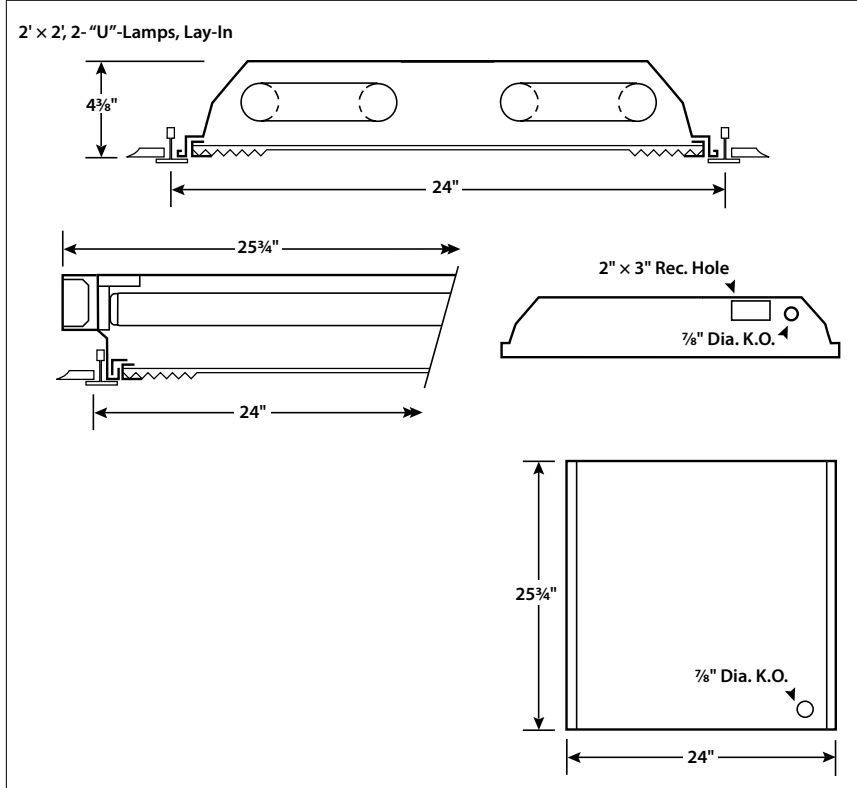


0.0 ——— 45.0 - - - 90.0 - - -

#### AVG. LUMINANCE (Candela/Sq. M.)

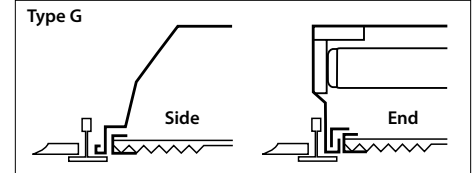
Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	6174	6174	6174	6174	6174
30	5963	6050	6201	6312	6367
40	5530	5624	5840	5997	6131
45	5121	5160	5403	5670	5879
50	4554	4618	4848	5190	5425
55	4019	4085	4271	4666	4804
60	3539	3470	3553	3999	4095
65	3089	2797	2748	3154	3341
70	2763	2361	2180	2732	3074
75	2708	2416	2297	2721	3186
80	2948	2790	2928	3126	3403
85	2957	3114	3351	3824	3469

#### DIMENSIONAL DATA

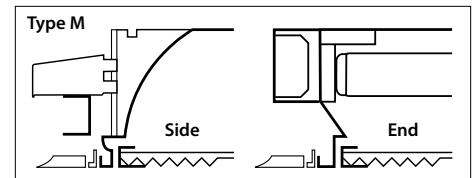


**NOTE:** All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

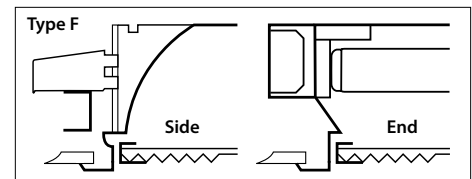
#### CEILING COMPATIBILITY



For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 1 1/2" allowed.



"Fit-in" style extruded trim aligns with modular tile joint. Fixture is supported from concealed suspension, includes adjustable wing hangers.



Overlapping trim conceals edges of ceiling opening. Wing hanger suspension included.

Flanged cut out dimension for single unit only:  
24 1/8" x 24 1/8"

