

FEATURES

- Low profile, 3½" depth
- Choice of doors from steel to extruded aluminum, open from either side
- Diffuser easily removable for lamp access and cleaning
- Heavy gauge steel housing with embossments for added strength
- Mitered corners
- All parts are powder coated white and painted after fabrication
- Prismatic acrylic lens standard
- Spring loaded steel latches
- Available in pendant mount
- Damp label standard

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

HOUSING

Fixture and ballast cover are constructed of 22 gauge steel. Backpan is constructed of 20 gauge steel for added rigidity. All fixtures have center wireway access for wiring from the fixture center. Housing has mitered corners for a clean uninterrupted appearance. Fixture can be mounted to any commercial type ceiling. Fixture can be pendant mounted.

FINISH

All metal parts are finished with a high temperature baked white enamel after fabrication. All light reflecting surfaces shall have a minimum reflectance of 90%. Walnut or custom color trims are available. Please consult your Columbia Representative for availability.

BALLASTS

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, magnetic or electronic ballasts. CEE NEMA Premium compliant.

SHIELDING

Standard lens is a 100% acrylic pattern 12. Consult lens option sheet or your Columbia Representative for other available options. Door frame is available in die formed 20 gauge steel or extruded aluminum. Door opens from either side without the use of tools. Latches on doors are positive acting spring loaded steel latches that firmly hold the door in place.

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.

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 PM24-232-FSA12-EU

MODEL	NO. OF LAMPS	DOOR	VOLTAGE	OPTIONS
PM Specification Grade Surface Mount	2 Two 3 Three 4 Four	FS White Flush Steel FA White Flush Aluminum RA White Regressed Aluminum	U 120V-277V 347 347V	GLR Fast Blow Fuse EL Emergency Battery Pack NYC NYC Compliant NYCU NYC Compliant, Union Label
SIZE	LAMP TYPE	SHIELDING	BALLAST	
24 2' x 4'	28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5HO: 54 or 51 Watt	A12 Acrylic, Pattern 12 A12.187 Pattern 12 Acrylic, .187" Single or Twin Panels A19 Acrylic, Pattern 19 PC1 Polystyrene Silver Parabolic Louver ½" x ½" x ½" PC2 Polystyrene Silver Parabolic Louver 1½" x 1½" x 1"	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 T5HO or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start	

For others available, see Ballast Options.

PHOTOMETRIC DATA

Test I38116 Test Date 1/8/03

LUMINAIRE DATA

Luminaire	PM24-240-FSA12.125-LE PM Surface Mounted 2 x 4 2-L Surface Mount with .125 Nom. A-12 Lens
Ballast	446-L-SLH-TC-P
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3050
Watts	83
Shielding Angle	N/A
Spacing Criterion	0° = 1.24 90° = 1.43
Luminous Opening in Feet	Length: 3.82 Width: 1.83 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1450	23.8	32.2
0-40	2422	39.7	53.8
0-60	3913	64.2	86.9
0-90	4502	73.8	100.0
0-180	4502	73.8	100.0

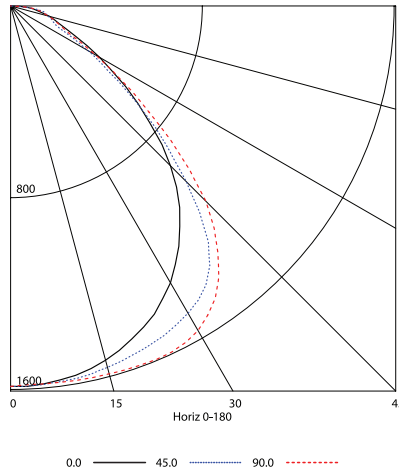
ENERGY DATA

Total Luminaire Efficiency	73.8%
Luminaire Efficacy Rating (LER)	52
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$4.62 based on 3000 hrs. and \$0.08 per KWH

COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80			70			50			0	
		70	50	30	10	70	50	30	10	50		30
1	81	78	75	72	79	76	74	71	73	71	69	63
2	74	69	64	61	73	68	63	60	65	62	58	54
3	69	61	56	52	67	60	55	51	58	54	50	47
4	63	55	49	44	62	54	48	44	42	47	44	41
5	58	50	43	39	57	49	43	39	47	42	38	36
6	54	45	39	34	53	44	38	34	43	38	34	32
7	50	41	35	30	49	40	34	30	39	34	30	28
8	47	37	31	27	46	37	31	27	36	31	27	25
9	44	34	29	25	43	34	28	25	33	28	24	23
10	41	32	26	22	40	31	26	22	31	26	22	21

INDOOR CANDELA PLOT



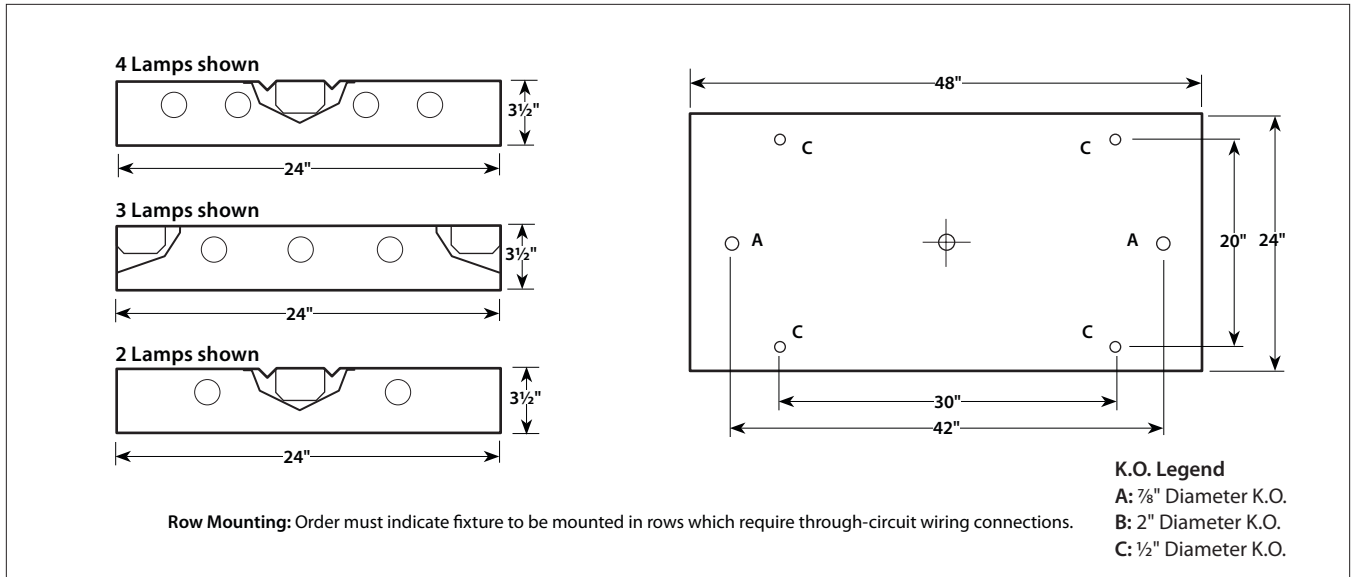
AVG. LUMINANCE (Candela/Sq. M.)

Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	2748	2748	2748	2748	2748
30	2667	2772	2960	3087	3127
40	2480	2679	2902	3031	3041
45	2310	2430	2543	2744	2822
50	2041	2096	2122	2280	2352
55	1769	1713	1664	1777	1855
60	1484	1337	1293	1337	1426
65	1224	1038	958	1049	1100
70	1094	1031	950	995	1053
75	1130	1101	1083	1113	1095
80	1135	1303	1410	1321	1250
85	1413	1449	1413	1555	1590

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

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.