



F4 Rear Access Series

FLUORESCENT | FLANGE **F**



2x TECHNISEAL® APPLICATIONS:

- UL/CUL Listed Wet Location
- Cleanroom (Classes 100-100,000; ISO Classes 5-9)
- UL/CUL Hazardous Location (Class I, Division 2; Groups A, B, C & D; Class II, Division 2; Groups F & G)
- NSF Certified Food Processing (Splash Zone, Food Zone)
- Industrial & Commercial
- Transit

BENEFITS:

- Luminaires adaptable to your specific needs
- Accessible from rear or front for servicing

FEATURES:

- Premium electronic ballast standard
- Available in stainless steel construction
- Every luminaire tested with lamps to assure customer satisfaction
- 5 year limited warranty
- Proudly made in **USA**

SPECIFICATIONS:

HOUSING:

Constructed of nominal 20GA (.036) zinc coated steel for unmatched corrosion protection. Two welded, tapered, threaded flanges on the top provide a sealed wireway access. All seams are sealed with a long life acrylic sealant.

REFLECTOR:

Fabricated of zinc coated steel, painted with a minimum reflectance of 88%.

LENS FRAME:

Exclusively designed, heavy duty, extruded, anodized aluminum with stainless steel captive screws used to hold the lens frame tight to the housing. The frame is hinged for support while servicing.

Food Zone: Lens frame and trim frame of stainless steel (S6 option std).

GASKETING:

An extruded, ribbed vinyl gasket seals the lens into the frame; with our exclusive, mechanically held, extruded, silicone gasket used to seal the frame to the housing.

Food Zone: Silicone sealant is used to seal the lens into the frame, with extruded EPDM sealing the frame to the housing.

FINISH:

Painted surfaces are two mil white polyester enamel, special colors available.

LENS:

.140 extruded prismatic acrylic with 50% DR content for durability, smooth side out.

Food Zone: .156 extruded prismatic polycarbonate, smooth side out.

ELECTRICAL:

All ballasts and lampholders are UL Listed.

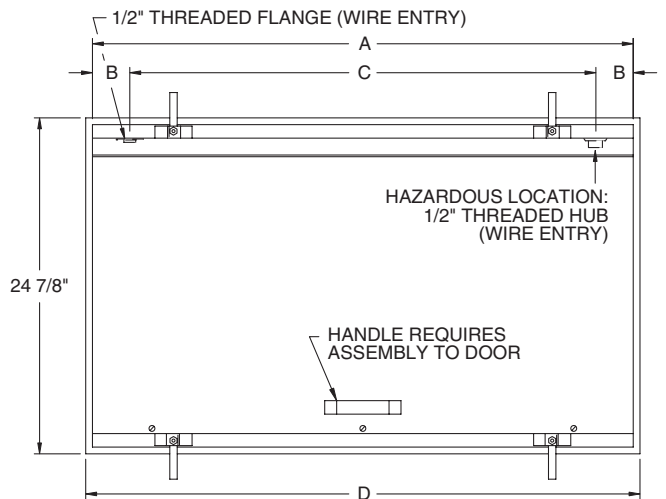
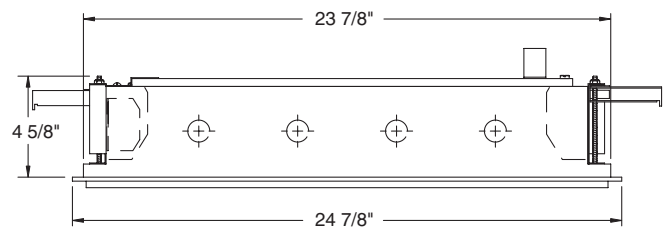
MOUNTING:

Flange or custom detail available.

TEMPERATURE CODE:

Class I, Div. 2= T5 (100°C); Class II, Div. 2= T5 (100°C)

(No fixture surface exposed to the hazardous atmosphere will exceed this temperature. Based on 40°C (104°F) ambient.)



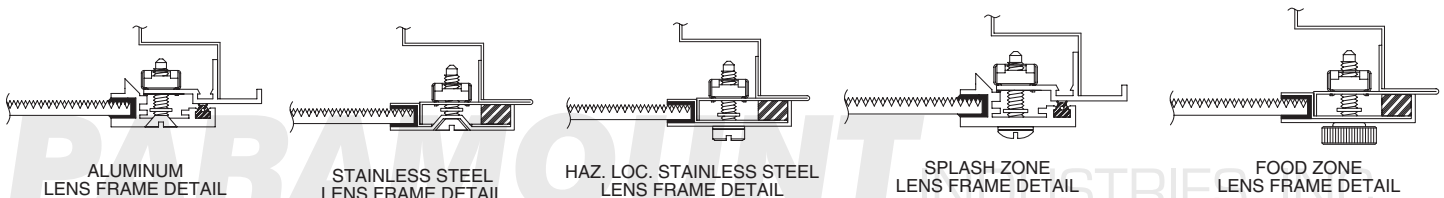
LENGTH	DIMENSIONS IN INCHES			
	A	B	C	D
2FT	23 29/32	1 15/16	20	24 7/8
3FT	35 15/16	2	32	37 3/16
4FT	47 15/16	2	44	49 1/16

CEILING CUT-OUT DIMENSIONS:

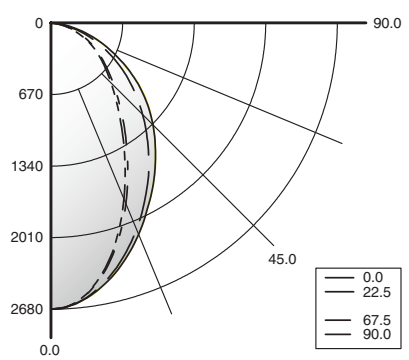
2FT: 24 1/4" x 24 1/4"

4FT: 24 1/4" x 48 1/4"

LENS FRAME DETAILS:



PHOTOMETRICS: For additional photometry, go to paramountlighting.com
 Model F44324-R5, 4FT, Specular Reflector and Prismatic Acrylic Lens, 4 32W T8 Fluorescent Lamps, Lamp Lumen Rating = 3050



Coefficients of Utilization, Zonal Cavity Method

Floor Cavity Reflectance: 20%

RC	.8				.7				.5				.3				.1				0								
	RW	.7	.5	.3	.1	.7	.5	.3	.1	.5	.3	.1	.5	.3	.1	.5	.3	.1	.5	.3	.1	.5	.3	.1	.5	.3	.1	.5	.3
R 0	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	75	75	75	75	75	75	75	75	75	75	75	75
C 1	83	80	77	74	81	78	75	73	75	73	71	72	70	68	69	68	66	65	65	65	65	65	65	65	65	65	65	65	65
R 2	76	70	65	61	74	69	64	61	66	62	59	64	61	58	61	59	57	55	55	55	55	55	55	55	55	55	55	55	55
3	70	62	57	52	68	61	56	51	59	54	51	57	53	50	55	52	49	47	47	47	47	47	47	47	47	47	47	47	47
4	64	56	49	45	63	55	49	44	53	48	44	51	47	43	49	46	43	41	41	41	41	41	41	41	41	41	41	41	41
5	59	50	44	39	58	49	43	39	48	42	38	46	42	38	45	41	38	36	36	36	36	36	36	36	36	36	36	36	36
6	55	45	39	34	54	45	39	34	43	38	34	42	37	34	41	37	33	32	32	32	32	32	32	32	32	32	32	32	32
7	51	41	35	31	50	41	35	31	40	34	30	39	34	30	38	33	30	29	29	29	29	29	29	29	29	29	29	29	29
8	48	38	32	28	47	38	32	28	37	31	27	36	31	27	35	30	27	26	26	26	26	26	26	26	26	26	26	26	26
9	45	35	29	25	44	35	29	25	34	29	25	33	28	25	32	28	25	23	23	23	23	23	23	23	23	23	23	23	23
10	42	33	27	23	41	32	27	23	31	26	23	31	26	23	30	26	23	21	21	21	21	21	21	21	21	21	21	21	21

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	3152	25.8	34.1
0-40	4815	39.5	52.1
0-60	7702	63.1	83.3
0-90	9243	75.8	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	9243	75.8	100

Total Luminaire Optical Efficiency = 75.8%
 Spacing Criterion: 0° = 1.07, 90° = 0.91

2x TECHNISEAL® REAR ACCESS FLANGE TROFFER ORDERING INFORMATION:

SERIES	LAMP QTY	LAMP TYPE	LENS	OPT MATERIAL	OPTIONS	VOLTAGE
F4 Wet Location Cleanroom	2*		2 .125 Clear Acrylic (No Pattern)		EM2 Bodine BDL700 WET/IOTA I-48-DL WET or similar	120V-277V/60Hz STD
HF4* Hazardous	3*		3 .125 White Acrylic		EM3 Bodine B50/IOTA I-320-DL or similar	347V/60Hz
SF4 Splash Zone	4* Standard		4 .140 Prismatic Acrylic (P12) (base)		EM4 Bodine BDL900 WET/IOTA I-40-DL WET or similar	50Hz & Other Voltages Available
FF4 Food Zone	6		6 .125 Clear Polycarbonate (No Pattern)		EM8 Bodine BHD65U T8 HAZ. LOC.	
			7 .125 White Polycarbonate		BALLASTS (SPECIFY VOLTAGE)	
			8 .156 Prismatic Polycarbonate (P12)		D1 Lutron Dimming ECO-10	
			9 .187 Tempered Glass (P62)		D2 Electronic Dimming	
					D4 < 10% THD (Consult Factory)	
					E0 Low Temp Electronic (N/A T12RS & VHO)	
					E2 2 Electronic Ballasts	
					E3 3 Electronic Ballasts	
					E4 4 Electronic Ballasts	
					E9 Rapid Start Electronic Ballast	
					FUSING	
					F1 GLR/HLR Fusing (Fast)	
					F2 GMF/HLR Fusing (Slow)	
					LENSING	
					H0 Special Lens (Specify)	
					H2 .150 Extra Heavy Clear Acrylic	
					H3 .150 Extra Heavy White Acrylic	
					H5 .156 C73 Tempered Glass	
					H6 .187 Clear Tempered Glass	
					J0 Lamp Sleeves (Specify Color)	
					J2 .060 Clear Acrylic Overlay	
					J4 .020 White Acrylic Overlay (Lamp Side)	
					J6 .080 Clear Polycarbonate Overlay	
					J7 Louver (Specify)	
					J9 RFI Lens (Specify Pattern)	
					K3 .187 KSH-12 Acri-Tuf Acrylic	
					K6 External Prisms (N/A Splash/Food Zones)	
					MISC	
					P1 Zinc Coated Steel Plaster Frame	
					P3 Stainless Steel Plaster Frame	
					P9 Special Paint Color (Provide Paint Code & Chip)	
					R5 Specular Aluminum Reflector (Consult Agent)	
					S1 Special Material (Consult Agent)	
					T3 Tamper Resistant (Hex w/pin STD, Others Avail)	
					V1 External Gasketing	
					V3 No Silicone Sealant Used	
					W4 Inboard Outboard Wiring (Dual Switching)	
					Y5 RFI Suppressors	

*** Lamp Type Available for Hazardous Location. Certain Lamps Require 6" Deep Housing**

LENSES AVAILABLE FOR FOOD ZONE

6 .125 Clear Polycarbonate (No Pattern)

7 .125 White Polycarbonate

8 .156 Prismatic Polycarbonate (P12) (base)

9 .187 Tempered Glass (P62)

Colored acrylic lens available, consult agent.

***S2** Stainless Steel Housing

***S3** Stainless Steel Exterior

***S5** Stainless Steel Lens Frame Only

***S6** SS Lens Frame & Trim Frame

* Note:
 If Stainless Steel is ordered, 304 SS Standard, 316 SS and other materials available, consult agent.

Other Wattages and Lengths Available, Consult Factory.
NSF Food Processing Note:
 Food Zone (F prefix) luminaires come in DIRECT CONTACT with food.
 Splash Zone (S prefix) units may become soiled, but are outside the danger of recontamination.

Information subject to change without notice. Lamps supplied by others.
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Hazardous Location: Food Processing:

Project Information: