

1x 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

FEATURES:

- Available with **IP 65 rating**, add -IP65 suffix (requires stainless steel lens frame)
- 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 hubs on the ends provide a sealed wireway access. All seams are sealed with a long life acrylic sealant.

Food Zone: All external metal components of stainless steel (S3 option std).

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 supported by two cables while servicing.

Food Zone: All external metal components of stainless steel (S3 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 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:

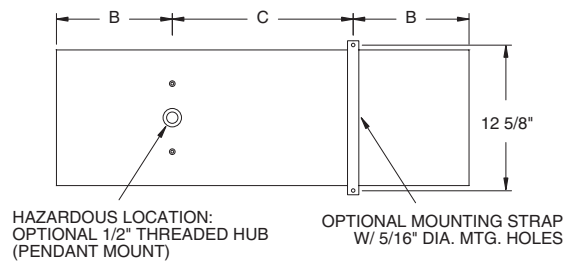
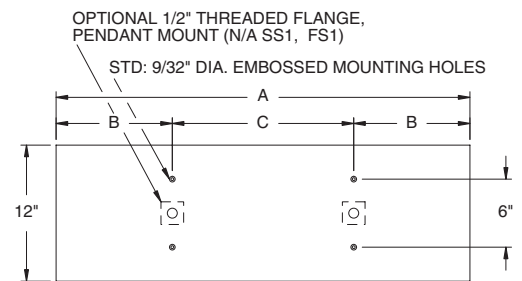
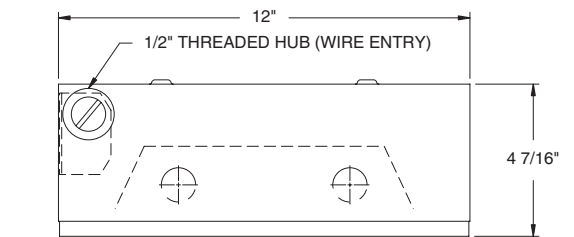
All ballasts and lampholders are UL Listed.

MOUNTING:

Surface or custom detail available for covered ceiling installations.

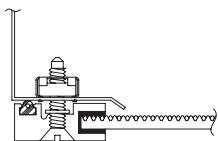
TEMPERATURE CODE:

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

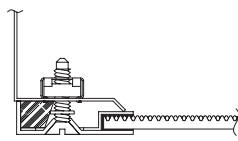


LENGTH	DIMENSIONS IN INCHES		
	A	B	C
1 FT	12 1/2	4 1/4	4
2 FT	24 1/2	4 1/4	16
3 FT	36 1/2	10 1/4	16
4 FT	48 1/2	8 1/4	32
6 FT	72 1/2	12 1/4	48
8 FT	96 1/2	16 1/4	64

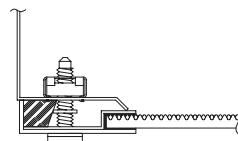
LENS FRAME DETAILS:



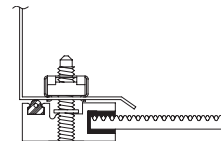
ALUMINUM LENS FRAME DETAIL



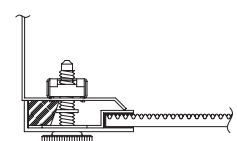
STAINLESS STEEL LENS FRAME DETAIL



HAZ. LOC. STAINLESS STEEL LENS FRAME DETAIL



SPLASH ZONE LENS FRAME DETAIL



FOOD ZONE LENS FRAME DETAIL



Hazardous Location:



Food Processing:

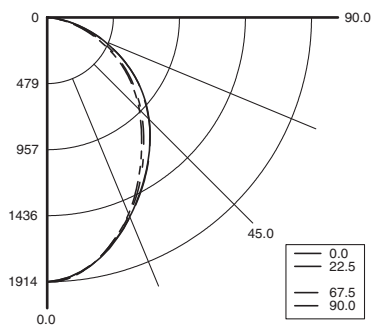


S1 Series



PHOTOMETRICS: For additional photometry, go to paramountlighting.com

Model S12324-R5, 4FT, Specular Reflector and Prismatic Acrylic Lens, 2 32W T8 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	0			
R 0	85	85	85	85	83	83	83	83	79	79	79	75	75	75	72	72	72	71
C 1	78	75	72	69	76	73	70	68	70	68	66	67	65	64	65	63	62	61
R 2	71	65	61	57	69	64	60	56	62	58	55	59	56	54	57	55	52	51
3	65	58	52	48	63	57	51	47	55	50	46	53	49	46	51	48	45	43
4	60	51	45	41	58	50	45	40	49	44	40	47	43	39	45	42	39	37
5	55	46	40	35	53	45	39	35	44	39	35	42	38	34	41	37	34	32
6	51	42	35	31	49	41	35	31	40	34	31	38	34	30	37	33	30	29
7	47	38	32	27	46	37	31	27	36	31	27	35	30	27	34	30	27	25
8	44	35	29	25	43	34	28	25	33	28	24	32	28	24	31	27	24	23
9	41	32	26	22	40	31	26	22	31	26	22	30	25	22	29	25	22	21
10	39	29	24	20	38	29	24	20	28	23	20	28	23	20	27	23	20	19

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1350	22.1	31
0-40	2128	34.9	48.9
0-60	3571	58.5	82.1
0-90	4348	71.3	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	4348	71.3	100

Total Luminaire Optical Efficiency = 71.3%
Spacing Criterion: 0° = 1.09, 90° = 1.05

1x TECHNISEAL® SURFACE TROFFER ORDERING INFORMATION:

SERIES	LAMP QTY	LAMP TYPE	LENS	OPT MATERIAL	OPTIONS	VOLTAGE
S1 Wet Location Cleanroom	1*		2 .125 Clear Acrylic (No Pattern)		EM2 Emergency (Specify Voltage)	120V-277V/60Hz STD
HS1* Hazardous	2* Standard		3 .125 White Acrylic		EM3 Bodine BDL700 WET/IOTA 1-48-DL WET or similar	347V/60Hz
SS1 Splash Zone	3*		4 .140 Prismatic Acrylic (P12) (base)		EM4 Bodine BDL900 WET/IOTA 1-40-DL WET or similar	50Hz & Other Voltages Available
FS1 Food Zone	T2 Tandem		6 .125 Clear Polycarbonate (No Pattern)		EM8 Bodine BHD65U HAZ. LOC.	
	T4 2 Tandem		7 .125 White Polycarbonate		BALLASTS (SPECIFY VOLTAGE)	
	T6 3 Tandem		8 .156 Prismatic Polycarbonate (P12)		D1 Lutron Dimming ECO-10	
			9 .187 Tempered Glass (P62)		D2 Electronic Dimming	
			LENSES AVAILABLE FOR FOOD ZONE		D4 < 10% THD (Consult Factory)	
18BX F18T5TT (13")	0°		6 .125 Clear Polycarbonate (No Pattern)		E0 Low-Temp Electronic (N/A T12 RS & VH0)	
26QD 26W G24Q 4PIN (1FT)	0°		7 .125 White Polycarbonate		E2 2 Electronic Ballasts	
40BX F40T5TT (2FT)	0°		8 .156 Prismatic Polycarbonate (P12) (base)		E9 Rapid Start Electronic Ballast	
50BX F50T5TT (2FT)	0°		9 .187 Tempered Glass (P62)		FUSING	
14T5 F14T5 (2FT)	0°		*S2 Stainless Steel Housing		F1 GLR/HLR Fusing (Fast)	
17* F17T8 (2FT)	0°		*S3 Stainless Steel Exterior		F2 GME/HLR Fusing (Slow)	
24T5H F24T5/HO (2FT)	0°		*S5 Stainless Steel Lens Frame Only		LENSING WET/HAZ	
25* F25T8 (3FT)	0°		Note:		H0 Special Lens (Specify)	MOUNTING
28T5 F28T5 (4FT)	0°		If Stainless Steel is ordered,		H2 .150 Extra Heavy Clear Acrylic	M0 Marine Mounting Straps
31U* FB31T8/U 1 5/8" (2FT) 2L	0°		304 SS Standard		H3 .150 Extra Heavy White Acrylic	M1 Pendant Mount (Pendants By Others)
31U6* FB31T8/U 6" (2FT) 1L	0°		316 SS and other materials		H5 .156 C73 Tempered Glass	M2 Mounting Bracket Kit (Surface / Chain)
32* F32T8 (4FT)	0°		available, consult agent.		H6 .187 Clear Tempered Glass	MISC
48H F48T12/HO (4FT)	-20°				J0 Lamp Sleeves (Specify Color)	IP65 IP rated (-S5 option required)
48T8H F48T8/HO (4FT)	-20°				J2 .060 Clear Acrylic Overlay	P9 Special Paint Color (Provide Paint Code & Chip)
54T5H F54T5/HO (4FT)	0°				J4 .020 White Acrylic Overlay (Lamp Side)	R5 Specular Aluminum Reflector
72H F72T12/HO (6FT)	-20°				J6 .080 Clear Polycarbonate Overlay	S1 Special Material (Consult Agent)
72T8H F72T8/HO (6FT)	-20°				J7 Louver (Specify)	T3 Tamper Resistant (Hex w/pin STD, Others Avail)
96H F96T12/HO (8FT)	-20°				J9 RFI Lens (Specify Pattern)	V1 External Gasketing
96T8 F96T8 (8FT) (59W)	50°				K3 .187 KSH-12 Acri-Tuf Acrylic External Prisms	V3 No Silicone Sealant Used
96T8H F96T8/HO (8FT)	-20°				LENSING FOOD ZONE ONLY	W4 Inboard Outboard Wiring (Dual Switching)
					H5 .156 C73 Tempered Glass	W5 Rear Wire Entry
					H6 .187 Clear Tempered Glass	Y5 RFI Suppressors
					J0 Lamp Sleeves (Specify Color)	
					J4 .020 White Acrylic Overlay (Lamp Side)	
					J6 .080 Clear Polycarbonate Overlay	

* Lamp Type Available for Hazardous Location.

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.

© 2010 Paramount Industries, Inc. P.O. Box 259 Crosswell, MI 48422

Project Information: