



L1 Series

FLUORESCENT | SURFACE **S**



TUFF LITE APPLICATIONS:

- UL/CUL Listed Wet Location
- Industrial & Commercial
- UL Listed Marine (Inside, Drip-Proof)
- Transit

BENEFITS:

- Luminaires adaptable to your specific needs

FEATURES:

- Premium electronic ballast standard
- Exterior fiberglass housing for corrosion protection
- Every luminaire tested with lamps to assure customer satisfaction
- IP65 Rating Standard
- 5 year limited warranty
- Proudly made in **USA**

SPECIFICATIONS:

HOUSING:

Exterior housing is one piece fiberglass construction with plugs on the ends to access the wireway.

Marine: Threaded hubs on the ends to access the wireway.

REFLECTOR:

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

GASKETING:

Thermoset polyurethane, foam in place.

LENS:

Crepe pattern clear acrylic with DR content for durability.

LATCHING:

Formed of white celcon. Polycarbonate or stainless steel are available.

Marine: Formed of stainless steel.

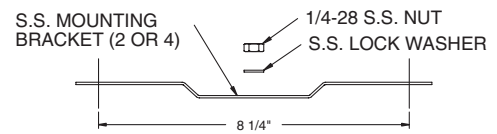
ELECTRICAL:

All ballasts and lampholders are UL Listed.

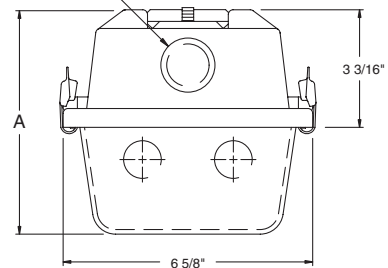
Marine: Utilizes a three gang terminal block for electrical connections.

MOUNTING:

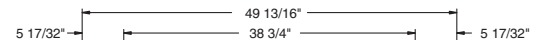
Surface, chain or custom detail available for covered ceiling installations. Chain option not available for marine application.



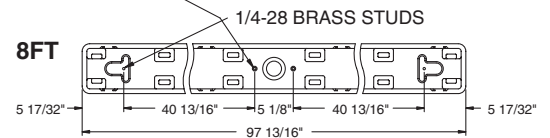
STD: 1 1/4" DIA. HOLE (WIRE ENTRY) W/ CAP PLUG



2FT



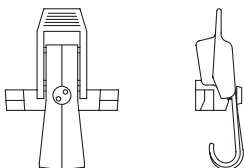
4FT



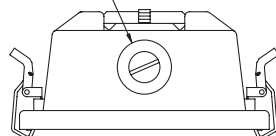
8FT

LENGTH	DIM IN INCHES A
2 FT	5
4 FT/8 FT	5 7/8

TAMPER-PROOF LATCH ASSEMBLY



ML1: 1/2" THREADED HUB (WIRE ENTRY)

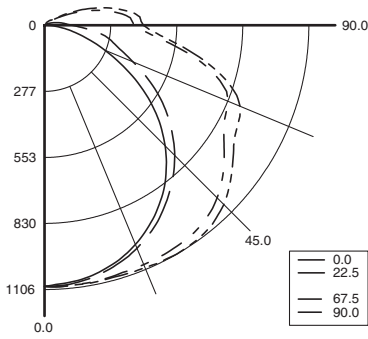




L1 Series

PHOTOMETRICS: For additional photometry, go to paramountlighting.com

Model L12324, 4FT, White Reflector and Crepe-pattern Acrylic Lens, 2 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	0
R 0	93	93	93	93	90	90	90	90	84	84	84	79	79	79	74	74	74	72			
C 1	82	78	73	69	79	75	71	67	70	67	64	65	63	60	61	59	57	55			
R 2	74	66	60	54	71	64	58	53	60	55	50	56	52	48	52	49	46	43			
3	67	57	50	44	64	55	48	43	51	46	41	48	43	39	45	41	37	35			
4	61	50	42	36	58	48	41	35	45	39	34	42	37	33	40	35	31	29			
5	55	44	36	31	53	43	35	30	40	34	29	38	32	28	35	31	27	25			
6	51	39	32	26	49	38	31	26	36	30	25	34	28	24	32	27	23	21			
7	47	35	28	23	45	34	27	22	32	26	22	31	25	21	29	24	20	18			
8	44	32	25	20	42	31	24	20	30	23	19	28	22	19	26	22	18	16			
9	41	29	22	18	39	29	22	18	27	21	17	26	20	17	24	19	16	14			
10	38	27	20	16	37	26	20	16	25	19	15	24	18	15	22	18	14	13			

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	886	14.5	18.1
0-40	1501	24.6	30.7
0-60	2882	47.2	58.9
0-90	4405	72.2	90
90-120	452	7.4	9.2
90-130	474	7.8	9.7
90-150	487	8	10
90-180	488	8	10
0-180	4892	80.2	100

Total Luminaire Optical Efficiency = 80.2%
Spacing Criterion: 0° = 1.25, 90° = 1.53

TUFF LITE ORDERING INFORMATION:

SERIES	LAMP QTY	LAMP TYPE	LENS	OPT MATERIAL	OPTIONS	VOLTAGE
L1 Wet Location	1		4 Crepe Pattern Acrylic (base)		EMERGENCY (SPECIFY VOLTAGE)	120V-277V/60Hz STD
RL1 Marine Inside	2		8 Prismatic Polycarbonate		EM2 Bodine BDL700 WET/IOTA I-48-DL WET or similar	347V/60Hz
ML1 Inside Drip-proof	T2 Tandem				EM3 Bodine BDL500 WET/IOTA I-320-DL WET or similar	50Hz & Other Voltages Available
	T4 2 Tandem				EM4 Bodine BDL900 WET/IOTA I-40-DL WET or similar	
					BALLASTS (SPECIFY VOLTAGE)	
					D1 Lutron Dimming ECO-10	
					D2 Electronic Dimming	
					D4 < 10% THD (Consult Factory)	
					E0 Low-Temp Electronic (N/A T12 RS & VH0)	
					E2 2 Electronic Ballasts	
					E9 Rapid Start Electronic Ballast	
					FUSING	
					F1 GLR/HLR Fusing (Fast)	
					F2 GMF/HLR Fusing (Slow)	
					LENSING	
					J0 Lamp Sleeves (Specify Color)	
					MOUNTING	
					M1 Pendant Mount (Pendants By Others)	
					M2 Mounting Bracket Kit (Surface / Chain)	
					MISC	
					T1 Stainless Steel Latches N/A 316SS	
					T3 Tamper Resistant Latches (Please Specify)	
					T4 Polycarbonate Latches	
					Add hyphens between options	

INDIVIDUAL UNITS STANDARD.
Other Wattages Available, Consult Factory.

Project Information:

Information subject to change without notice. Lamps supplied by others.

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