

**1 Lamp
T5 or High Output T5**

APPLICATION

- Patented (#5,921,666) luminaire provides high-impact lighting ideal for illuminating retail shelves, library stacks, corridors and other special applications.
- Optix reflector technology provides high horizontal and vertical illumination, making the luminaire suitable for area lighting as well as vertical illumination.
- Symmetric 1 lamp reflector creates a narrow light distribution to provide excellent horizontal illumination from the single lamp, as well as outstanding vertical illumination.
- 1 lamp 54wT5HO model emits as much light as a traditional 2 lamp 2x4 troffer, while consuming 85% less ceiling area.
- Narrow 3-1/2" aperture for use where aesthetics demand an architecturally clean ceiling.
- Narrow aperture consumes 85% less ceiling area than 2x4 luminaires and 71% less ceiling area than 2x2 or 1x4 luminaires.
- Suitable for individual or row mounting.
- Knockouts in ends allow through wiring for continuous row applications.
- Available for grid type (NEMA G) T-bar or flange type (NEMA F) drywall or plaster ceiling applications.

CONSTRUCTION/FINISH

- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Reflector is constructed from Miro® by Alanod, providing 95% minimum reflectance and high specularly.
- Two piece reflector allows removal through aperture and ballast access from below.
- Easy to attach grid clips are included for ease of installation on T-bar ceilings.
- Solid white architecturally shaped baffles are standard to provide longitudinal shielding.
- Flush, perforated and/or silver baffles are available to provide different architectural features.

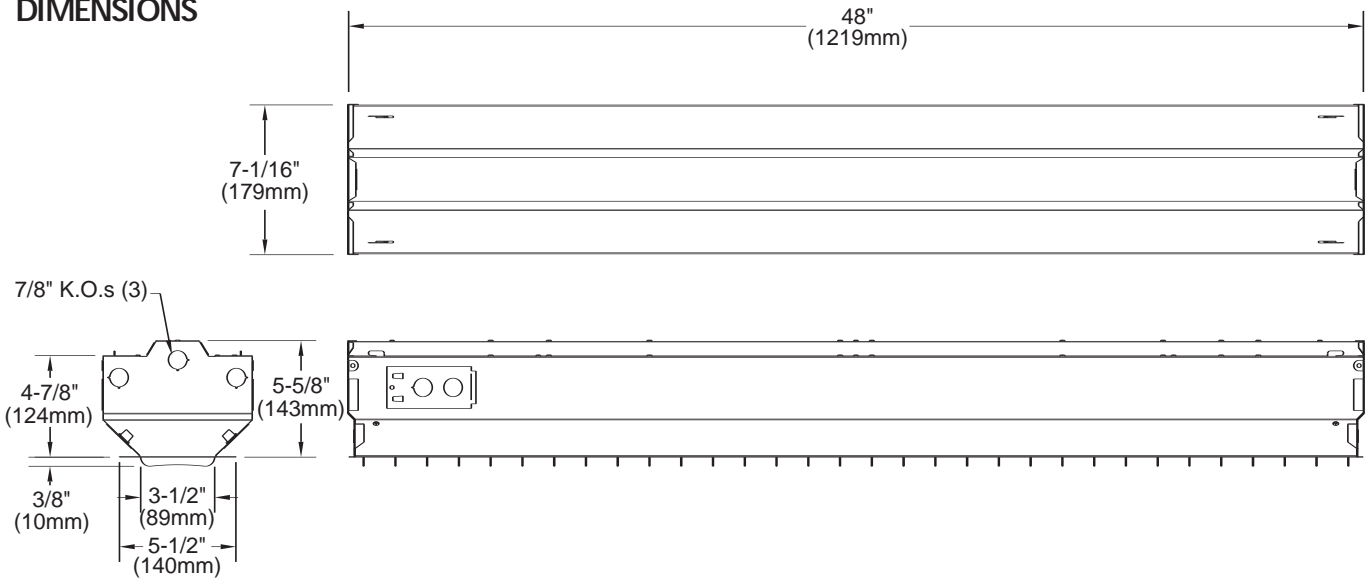
ELECTRICAL

- Class P, HPF ballasts comply with ©Federal Ballast Law (Public Law 100-357, 1988).
- UL listed for damp locations. Canadian model optional.
- Self contained fluorescent emergency power packs can be incorporated, UL listed for dry locations. Some models will require a secondary ballast enclosure on top, consult factory for details.
- Energy saving electronic ballast is standard.

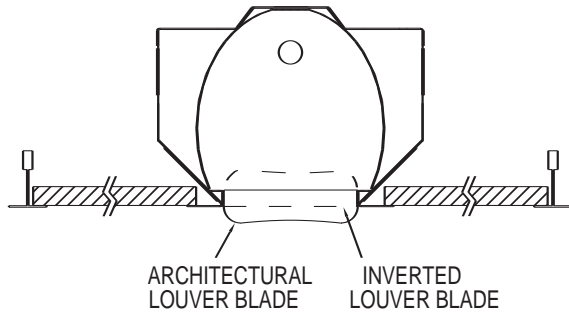
CATALOG NUMBER

MS		1					
FIXTURE FAMILY	CEILING TYPE	NO. OF LAMPS PER CROSS SECTION	LAMP TYPE/WATTAGE	LOUVER	VOLTAGE	BALLAST	OPTIONS
MS - Microslot	G - Grid F - Flange	1	(not included) 14 - 14wT5 (22") 24HO - 24wT5HO (22") 21 - 21wT5 (34") 39HO - 39wT5HO (34") 28 - 28wT5 (46") 54HO - 54wT5HO (46")	W - white solid architectural blades (standard) WF - white solid blades flush w/ceiling PW - white perforated architectural blades PWF - white perforated blades flush with ceiling S - silver solid architectural blades SF - silver solid blades flush w/ceiling PS - silver perforated architectural blades PSF - silver perforated architectural blades flush w/ceiling	120 277	Generic Electronic Ballasts (Brand selected by Day-Brite) Suffix Catalog # with - Ballast Quantity - / - EB Lamps Per Ballast.	CM - Canadian Market LPT830 - factory installed 85+ CRI 3000K lamp LPT835 - factory installed 85+ CRI 3500K lamp LPT841 - factory installed 85+ CRI 4100K lamp E500 - emergency ballast, not available with HO, 370-520 lumens (520 lumens with F28T5) E550 - emergency ballast, T5 or T5HO, 390-700 lumens (700 lumens with F28T5 or F54T5HO) E600 - emergency ballast, T5 or T5HO, 725-1325 lumens (1325 lumens with F28T5, 1250 lumens with F54T5 HO)
<p>Example: -1/1-EB = One 1 Lamp Electronic Ballast.</p>							

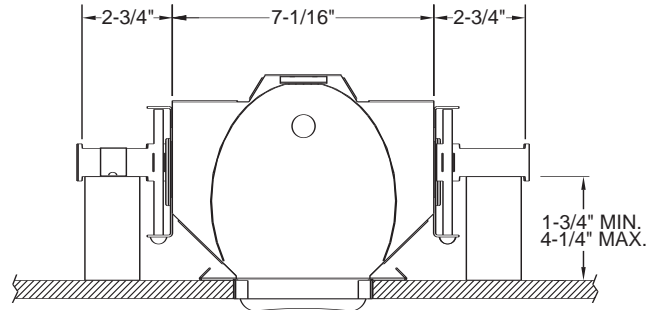
DIMENSIONS



CROSS SECTIONS



Grid Type



Flange Type

Due to the small aperture, flange option MicroSlot luminaires install much like downlights. The fixture must be installed into the plenum and anchored to a structural member before the plaster or drywall ceiling is constructed. After the ceiling is completed around the luminaire flange, the opening is finished by means of a "baffle trim" that snaps in from below.

Ceiling Opening Required	Trim Flange Dimension
2' 4" x 23-1/2"	4-7/16" x 24"
3' 4" x 35-1/2"	4-7/16" x 36"
4' 4" x 47-1/2"	4-7/16" x 48"

PHOTOMETRIC DATA

CATALOG # MSG128-W-1/1-EB
TEST #20277 SMH= 1.1

LAMPS = F28T5 INPUT WATTS = 30
BALLAST = ELECTRONIC BALLAST FACTOR = .94

LER = FL-73

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.29 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY = 80.4%

CANDLEPOWER				
Angle	End	45	Cross	
0	1130	1130	1130	
5	1129	1117	1118	
10	1091	1089	1102	
15	1038	1049	1139	
20	975	1032	1205	
25	893	1027	980	
30	806	928	779	
35	709	704	672	
40	606	571	552	
45	500	471	502	
50	397	369	499	
55	300	307	644	
60	209	258	506	
65	148	216	129	
70	112	126	51	
75	80	89	51	
80	50	60	32	
85	22	34	13	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.84 2900 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
4' 1 LAMP	5	-	69	41	-	-
	2	147	49	-	-	-
	1	111	37	-	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	6121	5766	6145
55	4527	4633	9719
65	3031	4424	2642
75	2676	2977	1706
85	2185	3377	1291

TYPICAL V.C.P.'s

Room Size	Mounting Height			
	Lengthwise		Crosswise	
	8.5	10	8.5	10
30x30	45	48	48	50
40x40	43	46	48	49
60x30	50	52	51	53
60x60	41	43	47	48
100x100	40	41	47	48

COEFFICIENT OF UTILIZATION

pfc	20					
	80			50		
pcc	70	50	30	70	50	30
RCR	70	50	30	70	50	30
0	95	95	95	93	93	93
1	89	84	81	85	82	81
2	81	76	70	80	73	69
3	75	68	61	72	66	60
4	68	60	54	68	59	54
5	64	55	47	63	54	47
6	59	50	42	57	48	42
7	56	45	39	54	45	39
8	52	41	34	51	40	34
9	48	39	32	47	38	32
10	46	35	29	45	34	28

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	854	29.4	36.6
0-40	1296	44.7	55.6
0-60	2028	69.9	87.0
0-90	2331	80.4	100.0
0-180	2331	80.4	100.0

LLF = .84 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.95 @ 40% RATED LAMP LIFE BF = 0.94 ELECTRONIC BALLAST & F28T5 LAMP (RELAMP AT 70% LAMP LIFE)

The photometric results were obtained in the Day-Brite Lighting Laboratory which is NVLAP accredited by the National Institute of Standards and Technology.



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