

PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

CONSTRUCTION

Extruded aluminum housing includes typical recycled content of 25%–30%. Diecast aluminum end caps.

LIGHT SEAL

Housing unions between all joints include upper formed light seal and aligner connectors to block light. End of row and single units feature unique optimized V-0 closed cell silicone gasket light seal at joints between extruded housing and die cast end cap.

CONNECTIONS

Secure, simple housing connections ensure row continuity. Standard lamp configuration features patent pending Ready Connect system for end cap connections.

MOUNTING

Microlyne® Cable Mount uses adjustable aircraft cable. Simple screw connection to housing provides quick, easy connection from the back of the housing. Does not require disassembly to install aircraft cable hanger.

REFLECTOR

High reflectance formed white reflector.

SHIELDING

Shielding is provided for single or continuous row. Options match across entire Microlyne® family.

OA - Opal Acrylic lens emphasizes the narrow rectilinear shape by creating a pleasant glow of white along the underside of the housing.

WCB - White Cross Baffle emphasizes linearity with a crisp, clean bladed appearance.

MA - Matte anodized louvers incorporate an attractive but subtle grain pattern which minimizes the visibility of fingerprints and construction dust without sacrifice to aesthetic qualities.

M4R - 95% Reflective Specular Aluminum louvers combine glare control and performance with a high tech, cubed aesthetic.

HEP - High efficiency specular parabolic louvers maximize downlight for enhanced efficiency where maximum light output is the primary concern

DISTRIBUTION

Symmetric downlight distribution is standard and used for general purpose lighting where uniform distribution is desired. Asymmetric downlight louver also available; see MA STG CM specification sheet.

FINISH

Matte White powder coat standard for end caps and housing. Zet Silver and additional colors and finishes optional.

ELECTRICAL

– Small case ballasts and emergency packs required

– UL 1598 or CUL labels.

– Prewired with electronic T5 or T5HO ballasts

– Quick connect plugs standard

– Damp label on most models

ORDERING INFORMATION

EXAMPLE: M-8-STG-CM48-OA-EPU-MW

M - - - STG - - - CM											
ROW LENGTH		LAMP STAGGER		SUSPENSION LENGTH (CM)		VOLTAGE		LIGHT MODULE ^{2,3}		# LIGHT MODULES ³	
4 4' Single		STG Staggered		18 18"		U 120V-277V		MR16D MR16 Downlight Module		1M One	
8 8' Single				48 48"		120 120V				2M Two	
12 12' Single				96 96"		277 277V				3M Three	
— Indicate row length in 4' increments. ¹				Other Specify		347 347V				4M Four	
MODEL		LAMP TYPE AND PROFILE		MOUNTING		BALLAST		OPTIONS		90° CORNER ³	
M Microlyne		1DT5 One T5 Lamp 2DT5 Two T5 Lamps		CM Adj. Aircraft Cable Mount		EP Electronic, Programmed Start (Std. for T5 & T5HO) ED Electronic, Dimming (Must Specify) ²		LR Left/Right Switching (2-Lamp only) EL 1 Emergency Battery Pack Per Row ^{2,3} EMC One Emergency Circuit ^{2,3,4} NL Night Light Circuit ^{2,3,4} GLR Fast Blow Fuse GMF Slow Blow Fuse TBAR T-Bar Mounting CSA UL listed or CSA certified for Canada DL Damp Label (Available on most models) WIH wiHUBB Enabled ⁵		90 One Unlit 90° 6"x6" One corner per row. Square equals 4 rows with one corner each.	
ROW PATTERN		1DT5HO One T5HO Lamp 2DT5HO Two T5HO Lamps		DOWNLIGHT SHIELDING		COLOR					
Blank Straight P Pattern (specify) Pattern layouts require factory approval drawings.				OA Opal Acrylic Lens WCB White Cross Baffle MA Matte Anodized Low Iridescent Semi-Specular Aluminum Louver (24 Cell) M4R 95% Reflective Specular Aluminum Louver (24 Cell) HEP High Efficiency Parabolic Specular Louver (15 Cell)		MW Matte White (Std.) ZT ZET Metallic Silver See MTX-1 for other color selections.					

¹ Rows over 12' will be configured by Alera. Example: 16' will be (2) 8'. For alternate configurations, contact factory.

² Specify dedicated voltage.

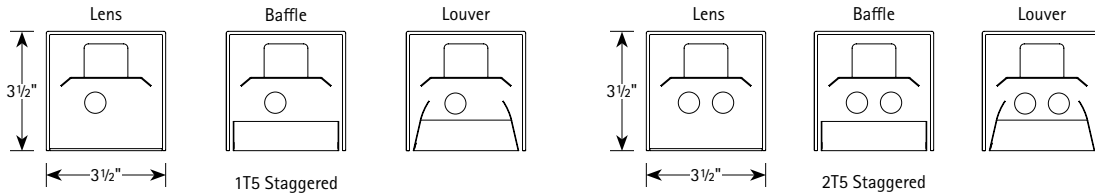
³ Not available with all configurations; some limitations apply.

⁴ Contact factory for details.

⁵ One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

⁶ For additional, specify quantity before nomenclature (Example: 2EL120, EMC277).

CROSS SECTION



PHOTOMETRIC DATA

LUMINAIRE DATA Test 14885

Luminaire	M-1T5-HEP-EP Microlyne® Beams 3.5" x 48" 1-Lamp with 15 Cell Louver
Ballast	ICN-2S28
Ballast Factor	1.04
Lamp	F28T5
Lumens per Lamp	2600
Watts	33
Shielding Angle	0° = 19 90° = 33

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	850	32.7	38.3
0-40	1388	53.4	62.5
0-60	2145	82.5	96.5
0-90	2222	85.5	100.0
0-180	2222	85.5	100.0

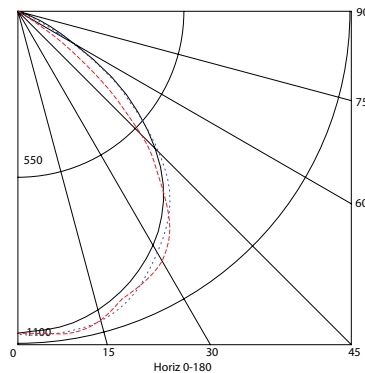
ENERGY DATA

Total Luminaire Efficiency	85.5%
Luminaire Efficacy Rating (LER)	70
IESNA RP-1-1993 Compliance	Yes - VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.43 based on 3000 hrs. and \$0.08 per KWH

COEFFICIENTS OF UTILIZATION (%)

RCR	RC 80				RC 70				RC 50				RC 0
	RW 70	50	30	10	70	50	30	10	50	30	10	0	
1	96	93	90	87	93	91	88	86	87	85	83	77	
2	89	83	79	75	87	82	78	74	79	76	73	68	
3	82	75	70	65	80	74	69	65	72	67	64	60	
4	76	68	62	57	75	67	61	57	65	60	56	53	
5	71	62	55	50	69	61	55	50	59	54	49	47	
6	66	56	49	45	64	55	49	44	54	48	44	42	
7	61	51	45	40	60	51	44	40	49	44	40	38	
8	57	47	41	36	56	46	40	36	45	40	36	34	
9	54	43	37	33	53	43	37	33	42	36	32	31	
10	50	40	34	30	49	40	34	30	39	33	30	28	

INDOOR CANDELA PLOT



AVERAGE LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	11474	11474	11474	11474	11474
30	11124	11522	11522	11845	11907
40	10524	10707	10890	10749	10454
45	9788	9940	9971	9210	8707
50	8674	8842	8473	6916	6263
55	7112	7169	6381	4204	3284
60	4629	4908	4026	1765	904
65	2980	2802	1808	484	127
70	1164	1039	661	126	63
75	42	42	208	42	42
80	0	0	0	0	0
85	0	0	0	0	0

RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

Test Date 2/5/08

	Microlyne® Staggered			
	1T5		2T5	
	Row Length	Lamp Configuration	Row Length	Lamp Configuration
4' (Non-STG)	4'	(1) 4'	4'	(2) 4'
8'	8'	(3) 3'	8'	(4) 4'
12'	12'	(1) 2' (3) 3' (1) 4'	12'	(6) 4'
16'	16'	(4) 3' (2) 4'	16'	(8) 4'
20'	20'	(1) 2' (5) 3' (2) 4'	20'	(10) 4'
24'	24'	(6) 3' (3) 4'	24'	(12) 4'
28'	28'	(1) 2' (7) 3' (3) 4'	28'	(14) 4'
32'	32'	(8) 3' (4) 4'	32'	(16) 4'
48'	48'	(12) 3' (6) 4'	48'	(24) 4'