

PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

CONSTRUCTION

Extruded aluminum housing includes typical recycled content of 25-30%.

END CAPS

Die cast flat end caps for standard lamp configuration. Both end caps feature silicone gasket to eliminate light leak, see Light Seal. Ships installed on fixture.

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® Wall Mount uses cleverly designed, ADA compliant, discreet wall brackets to create a floating appearance approximately 1/2" from the vertical wall surface. Brackets are made with heavy gauge galvanized steel.

REFLECTOR

High reflectance formed white reflector.

SHIELDING

Shielding is provided for single or continuous row.

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 WM specification sheet.

ELECTRICAL

Fixtures are pre-wired with electronic ballasts in 120V, 277V or 120V-277V (U). 347V available on some models; contact factory. Tandem and row configurations use quick-connect single or multi-circuit wiring between luminaires. Power feed locations as indicated on Technical Installation Data pages or project specific layouts. Night light, emergency circuits or factory installed battery packs must be specified as option.

FINISH

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

CERTIFICATION

All fixtures bear appropriate UL or C UL US labels.

ORDERING INFORMATION

EXAMPLE: M-16-STG-1DT5-WM-WCB-EP120-MW-EL

M - - - STG - - WM - - - - -		LAMP STAGGER		MOUNTING		VOLTAGE		COLOR		LIGHT MODULE ^{2,3}		# LIGHT MODULES ³
ROW LENGTH		STG Staggered		WM Wall Mount		U	MW	ZT	MR16D	MR16	Downlight Module	1M
4	4' Single					120V-277V	Matte White (Std.)	ZET Metallic Silver				One
8	8' Single					120V						Two
12	12' Single					277V						Three
—	Indicate row length in 4' increments. ¹					347V		See MTX-1 for other color selections.				Four
MODEL		LAMP TYPE AND PROFILE		DOWNLIGHT SHIELDING		BALLAST		OPTIONS				
M	Microlyne	1DT5	One T5 Lamp	OA	Opal Acrylic Lens	EP	Electronic, Programmed Start (Std. for T5 & T5HO)	LR	Left/Right Switching (2-Lamp only)			
		2DT5	Two T5 Lamps	WCB	White Cross Baffle	ED	Electronic, Dimming (Must Specify) ²	EL	1 Emergency Battery Pack Per Row ^{2,4,6}			
ROW PATTERN		1DT5HO	One T5HO Lamp	MA	Matte Anodized Low Iridescent Semi-Specular Aluminum Louver (24 Cell)			EMC	One Emergency Circuit			
Blank	Straight	2DT5HO	Two T5HO Lamps	M4R	95% Reflective Specular Aluminum Louver (24 Cell)			NL	Night Light Circuit ^{2,4,6}			
P	Pattern (specify)			HEP	High Efficiency Parabolic Specular Louver (15 Cell)			GLR	Fast Blow Fuse			
Pattern layouts require factory approval drawings.								GMF	Slow Blow Fuse			
								CSA	UL listed or CSA certified for Canada			
								DL	Damp Label (Available on most models)			
								WIH	wiHUBB Enabled ⁴			

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

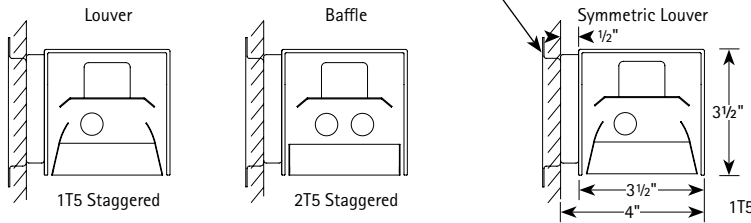
² Specify dedicated voltage.

³ Not available with all configurations; some limitations apply. Contact factory for details.

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

⁵ 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

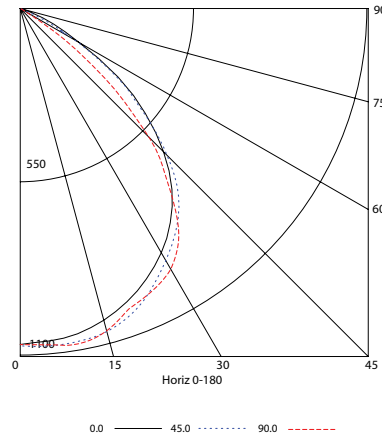
ENERGY DATA

Total Luminaire Efficiency	85.5%
Luminaire Efficacy Rating (LER)	70
IESNA RP-1-2004 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	80				70				50				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	77
2	89	83	79	75	87	82	78	74	79	76	73	68	68
3	82	75	70	65	80	74	69	65	72	67	64	60	60
4	76	68	62	57	75	67	61	57	65	60	56	53	53
5	71	62	55	50	69	61	55	50	59	54	49	47	47
6	66	56	49	45	64	55	49	44	54	48	44	42	42
7	61	51	45	40	60	51	44	40	49	44	40	38	38
8	57	47	41	36	56	46	40	36	45	40	36	34	34
9	54	43	37	33	53	43	37	33	42	36	32	31	31
10	50	40	34	30	49	40	34	30	39	33	30	28	28

INDOOR CANDELA PLOT



CANDELA SUMMARY

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'