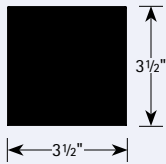



FEATURES

- 3 1/2" x 3 1/2" minimalist rectilinear shape
- 1 or 2 T5 or T5HO, 1T8
- Extensive aesthetic options
- Asymmetric distribution available; see MA SM specification sheet
- Straight runs, corners and light modules
- Full family including cable mount, wall mount, surface mount and recessed
- Companion fixtures include the 2 1/2" x 3 1/2" Microlyne® Mini and 3 1/2" x 5" Microlyne® Direct-Indirect
- Aesthetic continuity across family, shielding and options

SHAPE AND DIMENSIONS

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® Surface Mount can mount to T-Bar, drywall, wooden or drywall beams and other structural surfaces.

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 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 SM 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.

Name:	M-1T5-HEP-EP
Test #:	14885
Efficiency:	85.5%
LER:	70

ORDERING INFORMATION
EXAMPLE: M-16-1DT5-SM-WCB-EPU-MW

M		SM		VOLTAGE		LIGHT MODULE ^{4,5}		# LIGHT MODULES ⁵	
ROW LENGTH	LAMP TYPE AND PROFILE	MOUNTING		U	MR16D	MR16		1M	2M
4 4' Single	1DT5 One T5 Lamp ³	SM Surface Mount		120V-277V		Downlight Module		One	
8 8' Single	2DT5 Two T5 Lamps ³			120 120V				Two	
12 12' Single	1DT5HO One T5HO Lamp ³			277 277V				Three	
— Indicate row length in 4' increments. ^{1,2}	2DT5HO Two T5HO Lamps ³			347 347V				Four	
MODEL	DOWNLIGHT SHIELDING	BALLAST	OPTIONS		90° CORNER ³				
M Microlyne	OA Opal Acrylic Lens	E Electronic, Instant Start, (Std. for T8)	LR Left/Right Switching (2-Lamp only)	90 One Unlit 90° 6"x6"					
	WCB White Cross Baffle	EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)	EL 1 Emergency Battery Pack Per Row ^{4,5,7}	One corner per row. Square equals 4 rows with one corner each.					
	MA Matte Anodized Low Iridescent Semi-Specular Aluminum Louver (24 Cell)	ED Electronic, Dimming (Must Specify) ⁴	EMC One Emergency Circuit ^{4,5,6,7}						
	M4R 95% Reflective Specular Aluminum Louver (24 Cell)	ESD Electronic, Step Dimming (Contact factory) ⁴	NL Night Light Circuit ^{4,5,6,7}						
	HEP High Efficiency Parabolic Specular Louver (15 Cell)		GLR Fast Blow Fuse						
			GMF Slow Blow Fuse						
			CSA UL listed or CSA certified for Canada						
			DL Damp Label (Available on most models)						
ROW PATTERN	COLOR								
Blank Straight	MW Matte White (Std.)								
P Pattern (specify)	ZT ZET Metallic Silver								
Pattern layouts require factory approval drawings.	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 Shorter increments are available—contact factory.

³ Lamps may cause visible socket shadow in down light component.

⁴ Specify dedicated voltage.

⁵ Not available with all configurations; some limitations apply.

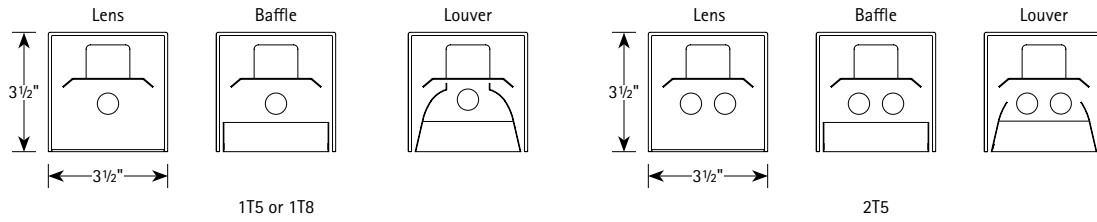
Contact factory for details.

⁶ One extra feed drop per row with through wiring.

(Standard is one 4ft lamp per circuit.)

⁷ 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

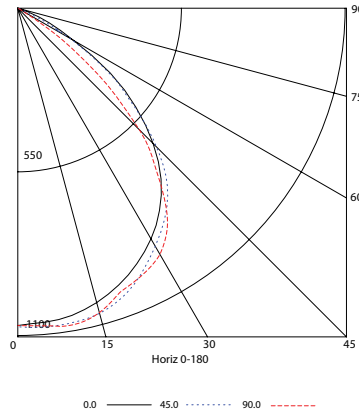
ENERGY DATA

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	RC	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		
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.)

Average Lumina	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® FAMILY QUICK REFERENCE PAGE FINDER										
	MR	MRA	MMR	MMRA	M	MA	MM	MMA	MDI	MDIA
SYMMETRIC	X		X		X		X		X	
ASYMMETRIC		X		X		X		X		X
GRID / SLOT GRID GRID FLANGE / SLOT GRID FLANGE	MRG MRSTGG	MRA G MRA STGG	MMR, MMRA G							
FLANGE	MRF MRSTGF	MRAF MRA STGF	MMR, MMRA F							
PLASTER	MRP MRSTGP	MRA P MRA STGP	MMR, MMRA P							
CABLE					MCM MSTGCM	MACM MASTGCM	MM, MMA CM		MDICM MDISTGCM	MDIACM MDIA STGCM
SURFACE					MSM MSTGSM	MASM MASTGSM	MM, MMA SM			
WALL					MWM MSTGWM	MAWM MASTGWM	MM, MMA WM		MDIWM MDISTGWM	MDIAWM MDIA STGWM