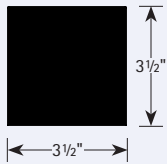



FEATURES

- 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 and corners
- 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
- Patented clips for louver retention (Patent #8,142,048)

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

—All luminaires are built to UL1598 standards and bear the appropriate cUL or CSA labels. Damp location listed.

—Quick connect plugs standard.

FINISH

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

CONTROLS COMPATIBILITY

Controls compatible. When used with occupancy sensors, most lamp vendors recommend program start ballasts (EP) to extend lamp life.

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

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

M -		SM -							
ROW LENGTH	LAMP TYPE AND PROFILE	MOUNTING		VOLTAGE	COLOR	OPTIONS			
4 4' Single	1DT5 One T5 Lamp ³	SM Surface Mount		U 120V-277V	MW Matte White (Std.)	LR Left/Right Switching (2-Lamp only)			
8 8' Single	2DT5 Two T5 Lamps ³			120 120V	ZT ZET Metallic Silver	EL 1 Emergency Battery Pack Per Row ^{4,5,7}			
12 12' Single	1DT5HO One T5HO Lamp ³			277 277V	See Color Selection Guide for other colors.	EMC One Emergency Circuit ^{4,5,6,7}			
— Indicate row length in 4' increments. ^{1,2}	2DT5HO Two T5HO Lamps ³			347 347V		NLC Night Light Circuit ^{4,5,6,7}			
	1DT8 One T8 Lamp ³					GLR Fast Blow Fuse			
						GMF Slow Blow Fuse			
MODEL		DOWNLIGHT SHIELDING		BALLAST					
M Microlyne		OA Opal Acrylic Lens		E Electronic, Instant Start, (Std. for T8)					
		WCB White Cross Baffle		EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)					
ROW PATTERN		MA Matte Anodized Low Iridescent Semi-Specular Aluminum Louver (24 Cell)		ED Electronic, Dimming (Must Specify) ⁴					
Blank Straight		M4R 95% Reflective Specular Aluminum Louver (24 Cell)		ESD Electronic, Step Dimming (Contact factory) ⁴					
P Pattern (specify)		HEP High Efficiency Parabolic Specular Louver (15 Cell)		Unless specified, Alera will use fewest ballasts possible.					
Pattern layouts require factory approval drawings.									
90° CORNER³									
90 One Unlit 90° 6" x 6"									
One corner per row. Square equals 4 rows with one corner each.									

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.

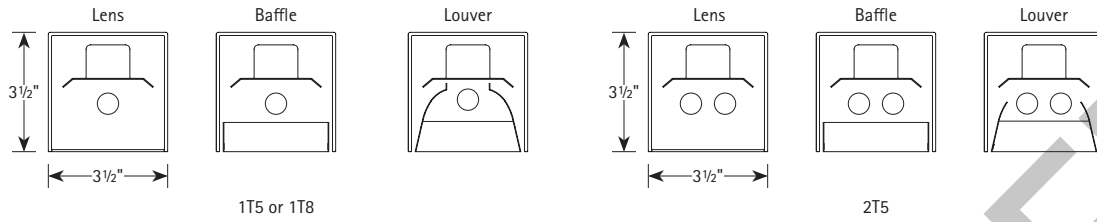
⁴ Specify dedicated voltage.

⁵ Not available with all configurations; some limitations apply. Contact factory for details.

⁶ One extra feed drop per EMC/NLC. For through wiring, contact factory.

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

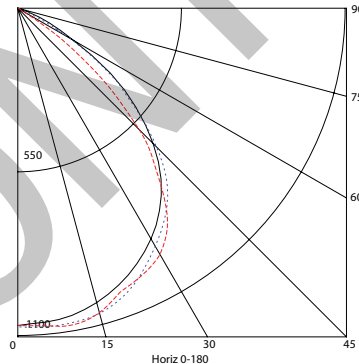
ENERGY DATA

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	80				70				50				0					
	RW	70	50	30	10	70	50	30	10	50	30	10	0	70	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 Luminance 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® 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	MRG	MRA G	MMR, MMRA G							
FLANGE	MR F	MRA F	MMR, MMRA F							
PLASTER	MR P	MRA P	MMR, MMRA P							
CABLE					MCM	MACM	MM, MMA CM		MDICM	MDIA CM
SURFACE					MSM	MASM	MM, MMASM			
WALL					MWM	MAWM	MM, MMA WM		MDIWM	MDIA WM