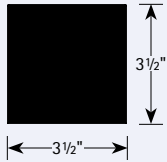




### FEATURES

- 3 1/2" x 3 1/2" minimalist rectilinear shape
- 1 or 2 T5 or T5HO, 1T8
- Unique asymmetric downlight louvers
- Asymmetric louvers appear identical to standard louvers
- Asymmetric louvers provide light to vertical surfaces or walls by placing light above traditional cut-off point
- Symmetric distribution available; see M SM specification sheet
- 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. Asymmetric louvers appear identical to standard louvers from below the fixture.

**M4R** - Asymmetric 95% Reflective Specular Aluminum louver combines glare control and performance with a high tech, cubed aesthetic.

**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.

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

### DISTRIBUTION

Asymmetric downlight louver lights vertical surfaces or walls by placing light above traditional cut-off point. Asymmetric louver appears identical to standard louver from below product for an exceptionally uniform appearance; no reflector hangs below housing into room space. Symmetric downlight distribution is standard and used for general purpose lighting where uniform distribution is desired; please see M 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 (MW) powder coat standard for end caps and housing. Zet Silver (ZET) and other additional colors and finishes optional.

### CERTIFICATION

All fixtures bear appropriate UL or C UL US labels.

<b>Name:</b>	MA-4-1T5-HEP-EP
<b>Test #:</b>	14895
<b>Efficiency:</b>	86.2%
<b>LER:</b>	70

### ORDERING INFORMATION

### EXAMPLE: MA-24-1DT5-SM-HEP-EPU-MW

M A - - - SM - - - - -		MOUNTING		VOLTAGE		COLOR		LIGHT MODULE <sup>4,5,7</sup>		# LIGHT MODULES <sup>5</sup>
ROW LENGTH	ROW PATTERN	SM Surface Mount		U 120V-277V	MW Matte White (Std.)	MR16D MR16 Downlight Module			1M One	
4 4' Single	Blank Straight			120 120V	ZT ZET Metallic Silver			2M Two		
8 8' Single	P Pattern (specify)			277 277V	See MTX-1 for other color selections.			3M Three		
12 12' Single	Pattern layouts require factory approval drawings.			347 347V				4M Four		
— Indicate row length in 4' increments. <sup>1,2</sup>										
SYM / ASYM	LAMP TYPE AND PROFILE	DOWNLIGHT SHIELDING	BALLAST	OPTIONS						
A Asymmetric Louver	1DT5 One T5 Lamp <sup>3</sup>	M4R 95% Reflective Specular Aluminum Louver (24 Cell)	E Electronic, Instant Start, (Std. for T8)	LR Left/Right Switching (2-Lamp only)						
	2DT5 Two T5 Lamps <sup>3</sup>	HEP High Efficiency Parabolic Specular Louver (15 Cell)	EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)	EL 1 Emergency Battery Pack Per Row <sup>4,5,7</sup>						
	1DT5HO One T5HO Lamp <sup>3</sup>	MA Matte Anodized Low Iridescent Semi-Specular Aluminum Louver (24 cell)	ED Electronic, Dimming (Must Specify) <sup>4</sup>	EMC One Emergency Circuit <sup>4,5,6,7</sup>						
	2DT5HO Two T5HO Lamps <sup>3</sup>		ESD Electronic, Step Dimming (Contact factory) <sup>4</sup>	NL Night Light Circuit <sup>4,5,6,7</sup>						
	1DT8 One T8 Lamp <sup>3</sup>			GLR Fast Blow Fuse						
MODEL				GMF Slow Blow Fuse						
M Microlyne				CSA UL listed or CSA certified for Canada						
				DL Damp Label (Available on most models)						

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

<sup>2</sup> Shorter increments are available—contact factory.

<sup>3</sup> Lamps may cause visible socket shadow in down light component.

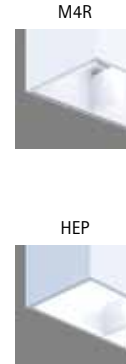
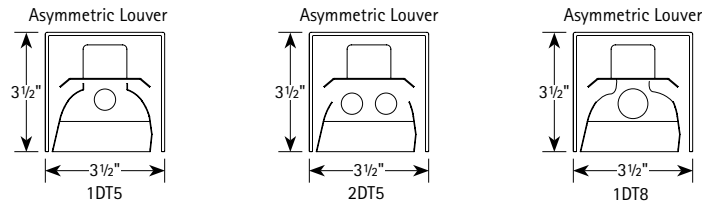
<sup>4</sup> Specify dedicated voltage.

<sup>5</sup> Not available with all configurations; some limitations apply. Contact factory for details.

<sup>6</sup> One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

<sup>7</sup> For additional, specify quantity before nomenclature (Example: 2EL120, EMC277).

### CROSS SECTION



### PHOTOMETRIC DATA

#### LUMINAIRE DATA Test 14895

Luminaire	MA-1DT5-HEP-EP Microlyne® Beams 3.5" x 48" 1-Lamp with 15 Cell 1WW Louver
Ballast	ICN-2S28
Ballast Factor	1.03
Lamp	F28T5
Lumens per Lamp	2600
Watts	33
Shielding Angle	0° = 19 90° = 33

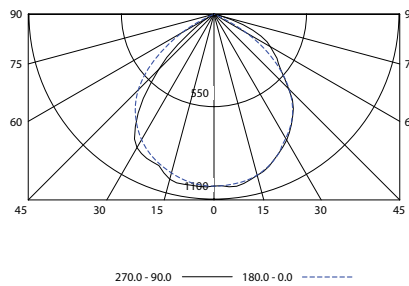
#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	807	31.0	36.0
0-40	1312	50.5	58.5
0-60	2081	80.0	92.8
0-90	2242	86.2	100.0
0-180	2242	86.2	100.0

#### ENERGY DATA

Total Luminaire Efficiency	86.2%
Luminaire Efficacy Rating (LER)	70
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.43 based on 3000 hrs. and \$0.08 per KWH

#### INDOOR CANDELA PLOT



#### CANDELA SUMMARY

	90.0	135.0	180.0	225.0	270.0
0.0	1022	1022	1022	1022	1022
7.5	1032	1027	1015	1024	1026
15.0	992	998	986	1010	1016
22.5	935	942	935	961	952
30.0	864	865	863	879	916
37.5	768	770	768	780	741
45.0	627	656	631	600	464
52.5	483	501	445	351	183
60.0	387	310	216	136	36
67.5	249	165	80	25	5
75.0	53	49	1	2	0
82.5	5	2	0	0	0
90.0	0	0	0	0	0

Test Date 2/14/08

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 MRASTGG	MMR, MMRA G							
FLANGE	MRF MRSTGF	MRAF MRASTGF	MMR, MMRAF							
PLASTER	MRP MRSTGP	MRAP MRASTGP	MMR, MMRA P							
CABLE					MCM MSTGCM	MACM MASTGCM	MM, MMA CM		MDICM MDISTGCM	MDIA CM MDIASTGCM
SURFACE					MSM MSTGSM	MASM MASTGSM	MM, MMA SM			
WALL					MWM MSTGWM	MAWM MASTGWM	MM, MMA WM		MDIWM MDISTGWM	MDIA WM MDIASTGWM