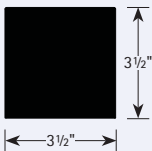




FEATURES

- Part of the A+CLASS™ energy management system
- A+CLASS™ compatible whiteboard lighting option
- 1T8 standard, T5 or T5HO options contact factory
- High efficiency HEP 15-cell louver standard. Optional euro-look 24-cell louver (M4R) available
- 3½" x 3½" minimalist rectilinear shape
- Asymmetric louvers provide light to whiteboards or teaching surfaces
- Full family including cable mount, wall mount, surface mount and recessed
- RAL colors available
- A+CLASS™ system includes lighting controls, switches and low voltage wiring
- See APCS controls submittal for additional details

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

A+CLASS

Compatible with the A+CLASS™ energy management system for use as whiteboard lighting.

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.

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. 5" steel canopy covers are provided standard for feed and non-feed locations. 2" canopies optional.

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.

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

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

DISTRIBUTION

Asymmetric downlight louver lights vertical whiteboards or teaching surfaces 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.

ELECTRICAL

Fixtures are pre-wired with electronic ballasts in 120V, 277V or 120V-277V (U). 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. Additional colors and finishes optional.

CERTIFICATION

All fixtures bear appropriate UL or C UL US labels.

Name:	MA-1T8-HEP-E
Test #:	14938
Efficiency:	68.1%
LER:	58

ORDERING INFORMATION

EXAMPLE: MA-16-1DT8-CM48-HEP-EPU-MW

MODEL	ROW LENGTH	LAMP TYPE AND PROFILE	SUSPENSION LENGTH (CM)	BALLAST	VOLTAGE	OPTIONS
M Microlyne® (3½") High Performance Lighting	4 4' Single 8 8' Single 12 12' Single — Indicate row length in 4' increments. ^{1,2}	1DT8 1 T8 Lamp Standard 1DT5 1 T5 Lamp ³ 1DT5HO 1 T5HO Lamp ³	48 48" 96 96"	EP Electronic, Programmed Start	U 120V-277V 120 120V 277 277V	EL 1 Emergency Battery Pack Per Row ^{4,5} 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)
SYM / ASYM	ROW PATTERN	MOUNTING	DOWNLIGHT SHIELDING	COLOR		
A Asymmetric Louver	Blank Straight	CM Adj. Aircraft Cable Mount	HEP High Efficiency Parabolic Specular Louver (15 Cell) Standard M4R 95% Reflective Specular Aluminum Louver (24 Cell) Optional	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 Shorter increments are available—contact factory.

³ T5/T5HO lamps may cause visible socket shadow in down light component.

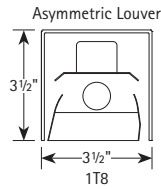
⁴ Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120, EMC277).

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

US Patent Pending.

Specifications subject to change without notice.

CROSS SECTION



Optional

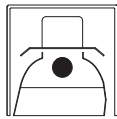


Standard

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14938

Luminaire	MA-1T8-HEP-EP Microlyne® Beams 3.5" x 48" 1-Lamp with 15 Cell 1WW Louvers
Ballast	REL-1P32-SC
Ballast Factor	0.92
Lamp	F32T8
Lumens per Lamp	2950
Watts	32
Shielding Angle	0° = 19 90° = 33



Tall Asymmetric Louver

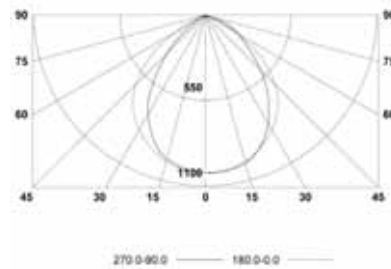
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	778	26.4	38.7
0-40	1234	41.8	61.4
0-60	1891	64.1	94.1
0-90	2010	68.1	100.0
0-180	2010	68.1	100.0

ENERGY DATA

Total Luminaire Efficiency	68.1%
Luminaire Efficacy Rating (LER)	58
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$4.14 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	1015	1015	1015	1015	1015
7.5	1012	1010	1005	997	998
15.0	988	985	976	964	957
22.5	919	933	923	902	871
30.0	805	841	853	798	735
37.5	662	715	761	646	555
45.0	503	561	632	470	345
52.5	347	393	452	279	153
60.0	244	229	229	121	32
67.5	142	109	82	25	4
75.0	23	28	1	3	0
82.5	2	1	0	0	0
90.0	0	0	0	0	0

Test Date 2/14/08