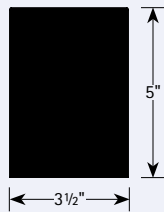




FEATURES

- 3 1/2" x 5" elegant geometric beam
- Uplight and Asymmetric Downlight
- Asymmetric downlight louver does not intrude below fixture housing
- Symmetric downlight available; see MDI STG CM specification sheet
- Up/Down switching available
- T5 or T5HO
- Extensive aesthetic and shielding options
- Staggered lamps for continuous light
- 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 3 1/2" Microlyne
- Aesthetic continuity across family, shielding and options

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

CONSTRUCTION

Extruded aluminum direct-indirect 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® Cable Mount uses adjustable aircraft cable. 5" steel canopy covers are provided standard for feed and non-feed locations. 2" canopies optional.

REFLECTOR

High reflectance formed white reflector.

DOWNLIGHT SHIELDING

Shielding is provided for single or continuous row. Asymmetric louvers appear identical to standard louvers from below the fixture. The asymmetric louver lights vertical surfaces by providing light to areas above typical cut-off.

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

HEP - High efficiency specular parabolic louvers

maximize downlight for enhanced efficiency where maximum light output is the primary concern.

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.

UPLIGHT SHIELDING

Uplight is open and free of shielding to allow maximum efficiency.

DISTRIBUTION

A wide range of symmetric up/asymmetric downlight distributions include combinations of uplight and downlight using one or more lamps in either the indirect or direct portion and combined with many types of downlight shielding. See ordering guide for additional options. Number of lamps in cross section will determine which options are available. Note that a wide range of symmetric downlight options can be found on MDI STG CM 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: MDIA-20-STG-1U1DT5-CM48-HEP-EPU-MW

MDI	A	-	STG	-	CM	-	-	-	-	-					
ROW LENGTH		LAMP STAGGER		MOUNTING		SUSPENSION LENGTH (CM)		DOWNLIGHT SHIELDING		VOLTAGE		COLOR			
4 4' Single		STG Staggered		CM Adj. Aircraft Cable Mount		18 18"		M4R 95% Reflective Specular Aluminum Louver (24 Cell)		U 120V-277V		MW Matte White (Std.)			
8 8' Single						48 48"		HEP High Efficiency Parabolic Specular Louver (15 Cell)		120 120V		ZT ZET Metallic Silver			
12 12' Single						96 96"		MA Matte Anodized Low Iridescent Semi-Specular Aluminum (24 Cell)		277 277V		See MTX-1 for other color selections.			
— Indicate row length in 4' increments. ¹						Other Specify				347 347V					
SYM / ASYM		ROW PATTERN		LAMP TYPE AND PROFILE				BALLAST		OPTIONS					
A Asymmetric Louver		Blank Straight P Pattern (specify)		1U1DT5 1 Lamp Up, 1 Lamp Down, T5 1U1DT5HO 1 Lamp Up, 1 Lamp Down, T5HO 1U2DT5 1 Lamp Up, 2 Lamps Down, T5 1U2DT5HO 1 Lamp Up, 2 Lamps Down, T5HO 2U1DT5 2 Lamps Up, 1 Lamp Down, T5 2U1DT5HO 2 Lamps Up, 1 Lamp Down, T5HO 2U2DT5 2 Lamps Up, 2 Lamps Down, T5 2U2DT5HO 2 Lamps Up, 2 Lamps Down, T5HO				EP Electronic, Programmed Start (Std. for T5 & T5HO) ED Electronic, Dimming (Must Specify) ²		DC Dust Cover (N/A with T5HO) LR Left/Right Switching (2-Lamp only) UB Upper/Lower Switching EL One Emergency Battery Pack Per Row ^{2,4,5} EMC One Emergency Circuit ^{2,3,4,5} NL Night Light Circuit ^{2,3,4,5} 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)					
MODEL		Pattern layouts require factory approval drawings.													
MDI Microlyne® Direct-Indirect															

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

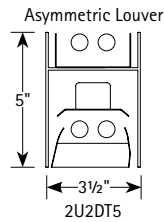
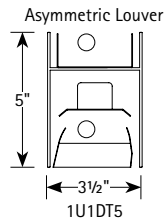
² Specify dedicated voltage.

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

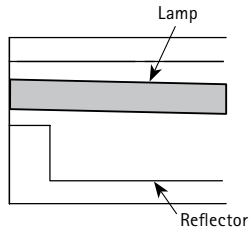
⁴ One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

⁵ For additional, specify quantity before nomenclature (Example: 2EL120, EMC277).

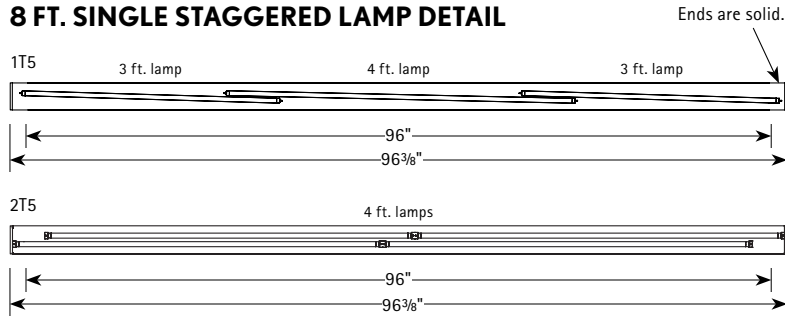
CROSS SECTION



STAGGERED END DETAIL



8 FT. SINGLE STAGGERED LAMP DETAIL



Staggered in downlight component only.

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14954

Luminaire	MDIA-1T5-HEP-EP Microlyne® Beams 3.5" x 48" 2-Lamp with 1 x 15 Cell HEP Wall Wash Louver
Ballast	ICN-2S28
Ballast Factor	1.03
Lamp	F28T5
Lumens per Lamp	2600
Watts	64
Shielding Angle	0° = 19 90° = 33

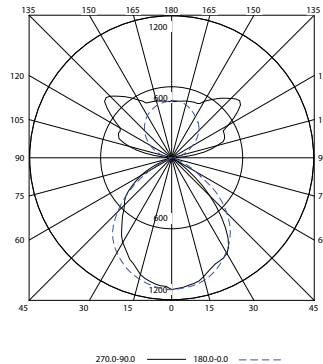
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	843	16.2	18.4
0-40	1354	26.0	29.6
0-60	2096	40.3	45.8
0-90	2216	42.6	48.4
90-120	790	15.2	17.3
90-130	1238	23.8	27.1
90-150	1954	37.6	42.7
90-180	2358	45.4	51.6
0-180	4575	88.0	100.0

ENERGY DATA

Total Luminaire Efficiency	88.0%
Luminaire Efficacy Rating (LER)	74
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.24 based on 3000 hrs. and \$0.08 per KWH

INDOOR CANDELA PLOT



CANDELA SUMMARY

Angle	90.0	135.0	180.0	225.0	270.0
0.0	1113	1113	1113	1113	1113
15.0	1040	1075	1067	1056	1021
30.0	934	908	923	863	826
45.0	461	622	657	604	565
60.0	20	148	207	265	302
75.0	3	6	0	16	12
90.0	0	0	0	0	0
105.0	396	333	85	322	371
120.0	551	574	209	550	503
135.0	709	529	320	534	736
150.0	551	481	408	476	564
165.0	496	488	463	487	496
180.0	482	482	482	482	482

Test Date 4/4/08

MICROLYNE® STAGGERED

	1T5		2T5	
	ROW LENGTH	LAMP CONFIGURATION	ROW LENGTH	LAMP CONFIGURATION
4' (Non-STG)	4' 3/8"	(1) 4'	4' 3/8"	(2) 4'
8'	8' 4 3/8"	(2) 3' (1) 4'	8' 4 3/8"	(4) 4'
12'	12' 4 3/8"	(2) 3' (2) 4'	12' 4 3/8"	(6) 4'
16'	16' 4 3/8"	(4) 3' (2) 4'	16' 4 3/8"	(8) 4'
20'	20' 4 3/8"	(4) 3' (3) 4'	20' 4 3/8"	(10) 4'
24'	24' 4 3/8"	(6) 3' (3) 4'	24' 4 3/8"	(12) 4'
28'	28' 4 3/8"	(6) 3' (4) 4'	28' 4 3/8"	(14) 4'
32'	32' 4 3/8"	(8) 3' (3) 4'	32' 4 3/8"	(16) 4'
48'	48' 4 3/8"	(12) 3' (6) 4'	48' 4 3/8"	(24) 4'