







ORDERING INFORMATION

SERIES MRGAL

SECURITY LEVEL

H Heavy (14 gauge)M Medium (16 gauge)L Light (18 gauge)

NOMINAL LENGTH

*Minimum of 2ft and maximum of 8ft (If not standard 4ft, contact manufacture for shop drawing and lumen outputs)

Number of feet (length)

MOUNTING

F Flange

LUMENS

50 500 Lumens Per Fo

T-Bar

 50
 500 Lumens Per Foot

 75
 750 Lumens Per Foot

 100
 1000 Lumens Per Foot

 150
 1500 Lumens Per Foot

*Other lumen packages available

CRI

TW

BLANK 80 CRI **9** 90 CRI

KELVIN 30 3000K 35 3500K 40 4000K 50 5000K

Tunable White

VOLTAGE

A- 47.75 B- 46.57

MV 120-277 **347** 347V

DIFFUSER

White Opal FlexilumeA1 Acrylic K12 (1/8")L1 Frosted Acrylic (1/8")

SECURITY LENS (NOMINAL THICKNESS)

M1 Clear Polycarbonate (1/8")
M3 Clear Polycarbonate (3/16")
M4 Clear Polycarbonate (1/4")
M5 Clear Polycarbonate (3/8")
M6 Clear Polycarbonate (1/2")

OPTIONS

AM Anti-Microbial Paint

EM Emergency Power Pack

CC COI Compliant

NLA Amber LED night light (500 lumens)

NLR Red LED night light (500 lumens)

SD Stainless Steel Door

CONTROLS
BLANK None

Click on the following link for control options: https://bit.ly/2KzMuAx

DRIVER

BLANK Non-dimming applications

DM 0-10V Dimming

DA DALI Driver

Click on the following link for special driver options:

https://bit.ly/2FqZ6qU

FEATURES

- Specification-grade patient room LED luminaire for anti-vandal behavioral healthcare applications
- Features modern rectangle lens with rounded edges for visual comfort and efficiency
- Robust design with security lens tightly secured by double-frame fastened internally with multiple screws
- > Door frame fastened with TORX tamper resistant screws
- Welded housing for additional structural strength
 Minimum 80 CRI; color range 3000K 5000K available
- > 90 CRI Optional
- > Anti-microbial paint optional
- · Multiple dimming protocols available
- IP65 for recessed applications*
- > Anti-ligature
- > 100% made in Canada

Faceplate is sealed with multiple gaskets and luminaire is IP65 certified as providing protection against dust and water entering the luminaire through the faceplate in a recessed application. Note that the housing (which is designed to be recessed into ceiling and is not visible once installed) does not provide ingress protection against dust and water entering the luminaire from the plenum.

APPLICATIONS

- > Hospitals
- > Behavioral Healthcare Facilities
- Rehabilitation Centers



LED

FIXTURE PERFORMANCE DATA

SPECIFICATIONS

Housing – Precision die-formed 14, 16 or 18-gauge C.R.S. with continuously welded end plates

Door Frame – Single piece precision 14-gauge die formed frame with tamper-resistant fasteners that secure door frame to housing

Security Lens – Variety of robust polycarbonate lenses available. Secured with internal frame that is fastened internally to door frame with multiple screws

Finish – Baked white enamel powder finish applied post production on all surfaces for smooth edges and safe handling. Anti-microbial finish optional.

Electrical – High quality mid-power LED boards. L85 >50,000 hours.

Mounting – Recessed (plaster or T-Bar ceiling). We stronlgy recommend to add wire hangers on each earthquake clips/brackets (see fixture details)

Listings -

- IP65
- cUL certified as luminaire suitable for dry or damp locations.

Warranty - 5-year limited warranty

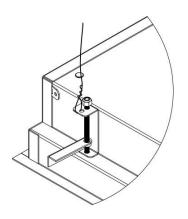
LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)			
4 FT						
500 lm / ft	2,151	18	120			
1000 lm / ft	4,050	41	99			
1500 lm / ft	6,066	59	103			

^{*}Results based on 4000K, 80 CRI, M4 (0.250" clear poly lens) and H5 white opal diffuser

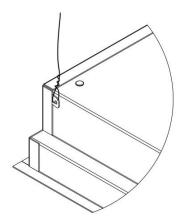
MULTIPLIER TABLE	
COLOR TEMPERATURE	
CCT/CRI	CONVERSION FACTOR
3000K / 80 CRI	0.95
3500K / 80 CRI	0.97
4000K / 80 CRI	1
5000K / 80 CRI	1.03

FIXTURE DETAILS

Hanging brackets to secure housing to structure (wires not supplied by PA-CO)



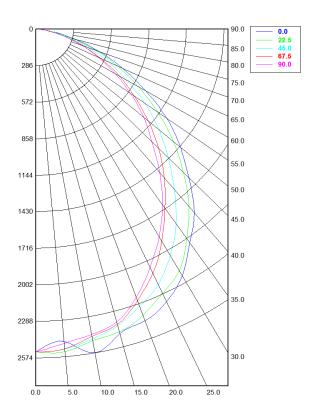




T-Bar



MRGAL-M-4F-T-150-40-MV-H5-M4T, Total Luminaire Output: 6,066 lumens; 59 watts



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	2,526.90	2,526.90	2,526.90	2,526.90	2,526.90
5.00°	2,454.99	2,534.48	2,515.90	2,511.99	2,469.43
10.00°	2,573.91	2,477.98	2,462.06	2,443.98	2,428.49
15.00°	2,467.37	2,453.73	2,403.88	2,391.76	2,372.87
20.00°	2,429.44	2,381.74	2,307.94	2,260.63	2,233.12
25.00°	2,354.28	2,281.80	2,204.49	2,103.81	2,054.34
30.00°	2,230.50	2,184.84	2,045.32	1,917.49	1,874.12
35.00°	2,042.18	2,002.48	1,861.38	1,712.97	1,684.45
40.00°	1,877.59	1,813.08	1,639.52	1,521.33	1,464.50
45.00°	1,646.68	1,589.75	1,428.67	1,317.09	1,244.63
50.00°	1,436.47	1,369.15	1,221.54	1,110.35	1,069.63
55.00°	1,216.11	1,130.09	1,005.03	908.41	875.16
60.00°	958.68	894.86	793.02	727.04	692.14
65.00°	727.75	680.15	605.49	540.53	520.18
70.00°	508.98	473.73	416.11	376.35	364.86
75.00°	310.23	284.09	254.11	226.10	214.91
80.00°	150.09	139.01	121.55	113.78	106.72
85.00°	46.07	47.40	42.14	39.81	40.66
90.00°	7.16	9.24	7.90	8.73	9.07

Spacing Criterion:

Two luminaires, plane 0°	1.29
Two luminaires, plane 90°	1.11
Four luminaires	1.27

Zonal Lumen Summary

Zone	Lumens	% Fixture
0.00° - 10.00°	252.45	4.16%
10.00° - 20.00°	678.07	11.18%
20.00° - 30.00°	1,007.74	16.61%
30.00° - 40.00°	1,158.37	19.09%
40.00° - 50.00°	1,112.87	18.34%
50.00° - 60.00°	911.32	15.02%
60.00° - 70.00°	606.22	9.99%
70.00° - 80.00°	279.50	4.61%
80.00° - 90.00°	59.83	0.99%
90.00° - 100.00°	2.33	0.04%
100.00° - 110.00°	0.00	0.00%
110.00° - 120.00°	0.00	0.00%
120.00° - 130.00°	0.00	0.00%
130,00° - 140.00°	0.00	0.00%
140.00° - 150.00°	0.00	0.00%
150.00° - 160.00°	0.00	0.00%
160.00° - 170.00°	0.00	0.00%
170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	6,066.37	100.00%
90.00° - 180.00°	2.33	0.04%
0.00° - 180.00°	6,066.37	100.00%

