

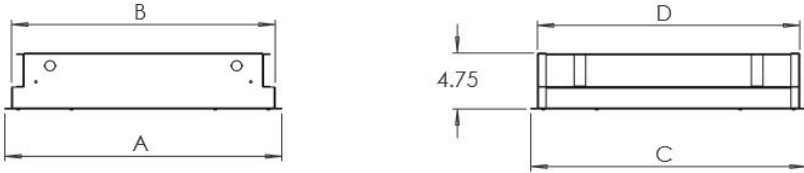
PROJECT:

NOTES:

ORDERING INFORMATION:

EXAMPLE MRPA2- M - T - R2 - A4 - E3 - PB - M4 - MV - AM - D
 SERIES SECURITY MOUNTING READING AMBIENT EXAM DIFFUSER LENS VOLTAGE OPTIONS DRIVER

SHOP DRAWINGS



2x4
 A - 23.75"
 B - 22.65"
 C - 47.75"
 D - 46.57"



ORDERING INFORMATION

SERIES
 MRPA2

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

MOUNTING
 T T-Bar
 F Flange

READING (Lumens, TempK, CRI)
 See page 2 and use code to specify the ambient compartment.
 Ex: R2 = 1500 lm, 3500K, 80 CRI

AMBIENT (Lumens, TempK, CRI)
 See page 2 and use code to specify the ambient compartment.
 Ex: A1 = 3000 lm, 3000K, 80 CRI

EXAM (Lumens, TempK, CRI)
 See page 2 and use code to specify the ambient compartment.
 Ex: E6 = 8000 lm, 5000K, 90 CRI

DIFFUSER (Center ambient)
 BLANK Acrylic Ribbed Lens
 PB Perforated Basket

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")

VOLTAGE
 MV 120-277V
 347 347V

OPTIONS
 AM Anti-Microbial Paint
 EM Emergency Power Pack
 CC COI Compliant
 SD Stainless Steel Door
 NLA Amber LED night light (500 lumens)
 NLR Red LED night light (500 lumens)
 NL White LED night light (500 lumens)*
 *Confirm TempK with manufacture

DRIVERS
 ND Non-dimming applications
 D 0-10V dimming
 DA DALI driver

FEATURES

- > Specification-grade patient room LED luminaire for anti-vandal behavioral healthcare applications
- > Features ambient, exam and reading light compartments
- > 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*
- > Optional COI compliant

* 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

LUMEN PACKAGES

| READING | | | |
|---------|---------------------|--------|-----|
| CODE | LUMENS | TEMP K | CRI |
| R1 | 1,500 | 3,000 | 80 |
| R2 | 1,500 | 3,500 | 80 |
| R3 | 1,500 | 4,000 | 80 |
| R4 | 1,500 | 3,000 | 90 |
| R5 | 1,500 | 3,500 | 90 |
| R6 | 1,500 | 4,000 | 90 |
| R7 | 2,500 | 3,000 | 80 |
| R8 | 2,500 | 3,500 | 80 |
| R9 | 2,500 | 4,000 | 80 |
| R10 | 2,500 | 3,000 | 90 |
| R11 | 2,500 | 3,500 | 90 |
| R12 | 2,500 | 4,000 | 90 |
| C | CUSTOM LED PACKAGES | | |

| AMBIENT | | | |
|---------|---------------------|--------|-----|
| CODE | LUMENS | TEMP K | CRI |
| A1 | 3,000 | 3,000 | 80 |
| A2 | 3,000 | 3,500 | 80 |
| A3 | 3,000 | 4,000 | 80 |
| A4 | 3,000 | 3,000 | 90 |
| A5 | 3,000 | 3,500 | 90 |
| A6 | 3,000 | 4,000 | 90 |
| A7 | 4,000 | 3,000 | 80 |
| A8 | 4,000 | 3,500 | 80 |
| A9 | 4,000 | 4,000 | 80 |
| A10 | 4,000 | 3,000 | 90 |
| A11 | 4,000 | 3,500 | 90 |
| A12 | 4,000 | 4,000 | 90 |
| TW* | TUNABLE WHITE | | |
| C | CUSTOM LED PACKAGES | | |

*Confirm protocol the TW will be controlled with

| EXAM | | | |
|------|-------------------|--------|-----|
| CODE | LUMENS | TEMP K | CRI |
| E1 | 8,000 | 3,500 | 80 |
| E2 | 8,000 | 4,000 | 80 |
| E3 | 8,000 | 5,000 | 80 |
| E4 | 8,000 | 3,500 | 90 |
| E5 | 8,000 | 4,000 | 90 |
| E6 | 8,000 | 5,000 | 90 |
| E7 | 9,000 | 3,500 | 80 |
| E8 | 9,000 | 4,000 | 80 |
| E9 | 9,000 | 5,000 | 80 |
| E10 | 9,000 | 3,500 | 90 |
| E11 | 9,000 | 4,000 | 90 |
| E12 | 9,000 | 5,000 | 90 |
| C | CUSTOM LED BOARDS | | |

ÉCLAIRAGES

PACO
LIGHTING

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 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. L70 >72,000 hours reported / 95,140 hours calculated. L85 >50,000 hours.

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

Listings –
 ■ IP65 certified.
 ■ cUL certified

Warranty – 5-year limited warranty

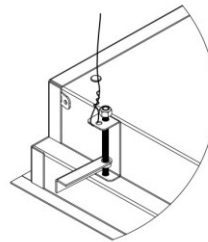
| LED PACKAGE | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|----------------------|------------------|---------|-----------------|
| 24" x 48" | | | |
| READING (1,000 lm) | 915 | 9 | 102 |
| AMBIENT (3,000 lm) | 2,899 | 24 | 121 |
| EXAM (8,000 lm) | 8,243 | 86 | 96 |
| READING/AMBIENT/EXAM | 12,045 | 119 | 101 |
| 24" x 48" | | | |
| READING (1,500 lm) | 1,537 | 18 | 85 |
| AMBIENT (4,000 lm) | 3,970 | 35 | 113 |
| EXAM (9,000 lm) | 9,265 | 92 | 101 |
| READING/AMBIENT/EXAM | 14,765 | 145 | 102 |

*Results based on 4000K, 80 CRI, M4 Lens

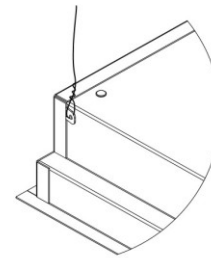
| MULTIPLIER TABLE | |
|-------------------|-------------------|
| COLOR TEMPERATURE | |
| CCT/CRI | CONVERSION FACTOR |
| 3000K / 80 CRI | 0.95 |
| 3500K / 80 CRI | 0.97 |
| 4000K / 80 CRI | 1 |
| 5000K / 80 CRI | 1.03 |

FIXTURE DETAILS

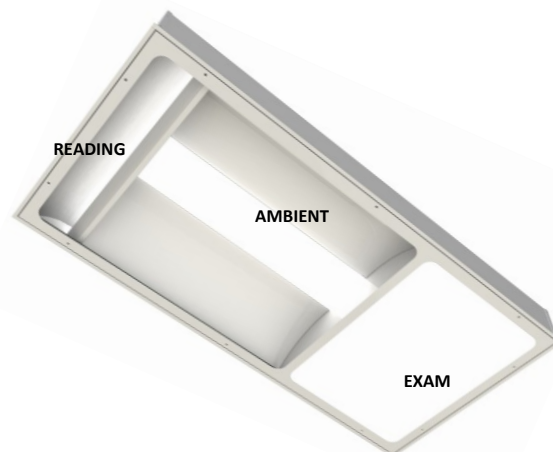
Hanging brackets to secure housing to structure (wires not supplied by PA-CO)



Plaster ceiling / Flange

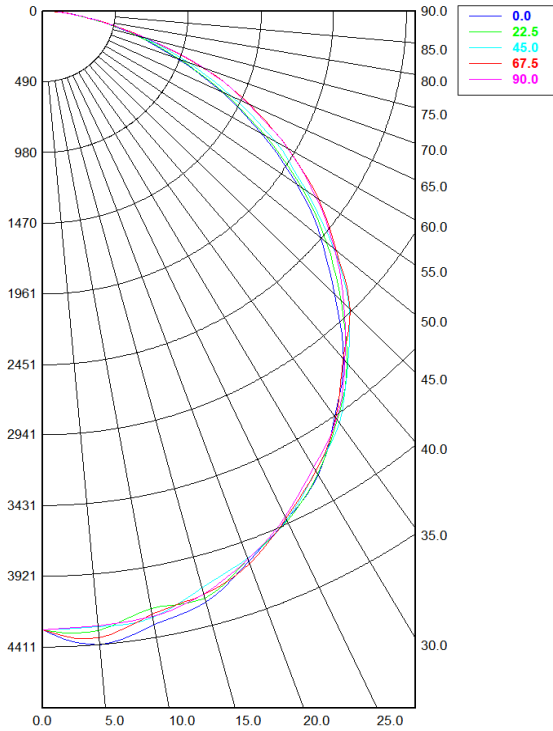


T-Bar



PHOTOMETRY

MRPA2-H-T-R3-A3-E2-40-M4-MV Total Luminaire Output: 12,045 lumens; 101 Watts



Candela Distribution

| | 0.00° | 22.50° | 45.00° | 67.50° | 90.00° |
|--------|----------|----------|----------|----------|----------|
| 0.00° | 4,292.15 | 4,292.15 | 4,292.15 | 4,292.15 | 4,292.15 |
| 5.00° | 4,411.23 | 4,313.03 | 4,288.14 | 4,363.77 | 4,279.34 |
| 10.00° | 4,322.16 | 4,209.91 | 4,271.19 | 4,248.18 | 4,262.68 |
| 15.00° | 4,245.79 | 4,215.80 | 4,141.93 | 4,191.27 | 4,186.17 |
| 20.00° | 4,059.74 | 4,044.94 | 4,037.45 | 4,076.75 | 4,046.02 |
| 25.00° | 3,892.65 | 3,904.02 | 3,894.92 | 3,882.24 | 3,869.73 |
| 30.00° | 3,718.93 | 3,708.43 | 3,685.08 | 3,687.31 | 3,655.27 |
| 35.00° | 3,437.03 | 3,464.17 | 3,486.63 | 3,446.80 | 3,456.56 |
| 40.00° | 3,158.33 | 3,193.74 | 3,196.61 | 3,151.51 | 3,168.81 |
| 45.00° | 2,783.94 | 2,843.91 | 2,921.33 | 2,929.90 | 2,874.13 |
| 50.00° | 2,450.03 | 2,500.94 | 2,565.15 | 2,584.67 | 2,569.69 |
| 55.00° | 2,096.66 | 2,133.58 | 2,166.93 | 2,269.54 | 2,252.45 |
| 60.00° | 1,696.48 | 1,730.31 | 1,806.45 | 1,911.21 | 1,904.43 |
| 65.00° | 1,331.54 | 1,348.36 | 1,404.30 | 1,537.90 | 1,528.27 |
| 70.00° | 962.95 | 981.68 | 1,047.10 | 1,151.83 | 1,156.61 |
| 75.00° | 651.36 | 657.46 | 691.51 | 709.48 | 712.96 |
| 80.00° | 372.48 | 376.92 | 366.50 | 367.11 | 374.44 |
| 85.00° | 155.81 | 149.63 | 148.61 | 154.71 | 144.67 |
| 90.00° | 22.45 | 22.48 | 23.08 | 22.17 | 28.54 |

Spacing Criterion:

| | |
|---------------------------|------|
| Two luminaires, plane 0° | 1.27 |
| Two luminaires, plane 90° | 1.26 |
| Four luminaires | 1.38 |

Zonal Lumen Summary

| Zone | Lumens | % Fixture |
|-------------------|-----------|-----------|
| 0.00° - 10.00° | 434.93 | 3.61% |
| 10.00° - 20.00° | 1,177.04 | 9.77% |
| 20.00° - 30.00° | 1,787.11 | 14.84% |
| 30.00° - 40.00° | 2,153.67 | 17.88% |
| 40.00° - 50.00° | 2,209.54 | 18.34% |
| 50.00° - 60.00° | 1,945.01 | 16.15% |
| 60.00° - 70.00° | 1,413.58 | 11.74% |
| 70.00° - 80.00° | 735.91 | 6.11% |
| 80.00° - 90.00° | 188.87 | 1.57% |
| 90.00° - 100.00° | 6.39 | 0.05% |
| 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° | 12,045.66 | 100.00% |
| 90.00° - 180.00° | 6.39 | 0.05% |
| 0.00° - 180.00° | 12,045.66 | 100.00% |