

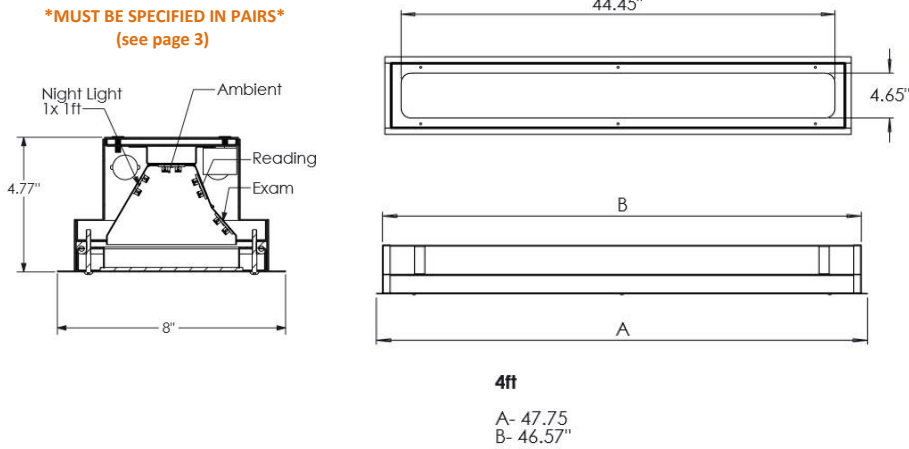
PROJECT:

NOTES:

ORDERING INFORMATION:

**EXAMPLE** MRPA5- M - T - R3 - A2 - E7 - M4 - MV - NL - D  
 SERIES SECURITY MOUNTING READING AMBIENT EXAM LENS VOLTAGE OPTIONS DRIVER

SHOP DRAWINGS



ORDERING INFORMATION

**SERIES**  
MRPA5

**SECURITY LEVEL**

H	14-Ga CRS (painted white)
M	16-Ga CRS (painted white)
L	18-Ga CRS (painted white)
HS	14-Ga SS (painted white)*
MS	16-Ga SS (painted white)*
LS	18-Ga SS (painted white)*
HB	14-Ga SS (brushed)*
MB	16-Ga SS (brushed)*
LB	18-Ga SS (brushed)*

\*Overlapping floor in SS and housing is CRS

**MOUNTING**

T	T-Bar
F	Flange

**READING (Lumens, TempK, CRI)**  
 See page 2 and use code to specify the ambient compartment.  
 Ex: R7 = 3000 lm, 3000K, 80 CRI

**AMBIENT (Lumens, TempK, CRI)**  
 See page 2 and use code to specify the ambient compartment.  
 Ex: A7 = 6000 lm, 3000K, 80 CRI

**EXAM (Lumens, TempK, CRI)**  
 See page 2 and use code to specify the ambient compartment.  
 Ex: E11 = 12000 lm, 3500K, 90 CRI

**DIFFUSER**  
 BLANK Frosted Inner Diffuser (L1)

**SECURITY LENS (NOMINAL THICKNESS)**

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

**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 sections
- > Robust design with polycarbonate lens tightly secured by internal angle frame fastened internally with TORX screws
- > Minimum 80 CRI; color range 3000K - 5000K available
- > IP65 for recessed applications\*
- > Optional 90 CRI
- > Optional COI Compliant
- > Optional anti-microbial paint
- > Multiple dimming protocols available
- > Fully gasketed fixture
- > Optional amber or red LED night light (500 lumens)
- > Gasketed stainless steel screws
- > Optional LED night light

\* 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 Facilities
- > Rehabilitation Centers



## LUMEN PACKAGES PER PAIR OF LUMINAIRES

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

AMBIENT			
CODE	LUMENS	TEMP K	CRI
A1	4,000	3,000	80
A2	4,000	3,500	80
A3	4,000	4,000	80
A4	4,000	3,000	90
A5	4,000	3,500	90
A6	4,000	4,000	90
A7	6,000	3,000	80
A8	6,000	3,500	80
A9	6,000	4,000	80
A10	6,000	3,000	90
A11	6,000	3,500	90
A12	6,000	4,000	90
TW	TUNABLE WHITE		
CA	CUSTOM LED PACKAGES		

EXAM			
CODE	LUMENS	TEMP K	CRI
E1	8,000	3,000	80
E2	8,000	3,500	80
E3	8,000	4,000	80
E4	8,000	3,000	90
E5	8,000	3,500	90
E6	8,000	4,000	90
E7	12,000	3,000	80
E8	12,000	3,500	80
E9	12,000	4,000	80
E10	12,000	3,000	90
E11	12,000	3,500	90
E12	12,000	4,000	90
CE	CUSTOM LED PACKAGES		

## LED

## FIXTURE PERFORMANCE DATA

## SPECIFICATIONS

**Housing** – Precision die-formed 14, 16, 18-gauge C.R.S. or stainless steel housing

**Door Frame** – Single piece precision 14-gauge die formed frame with 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 TORX 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 / 129,200 calculated at maximum allowable output current. 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

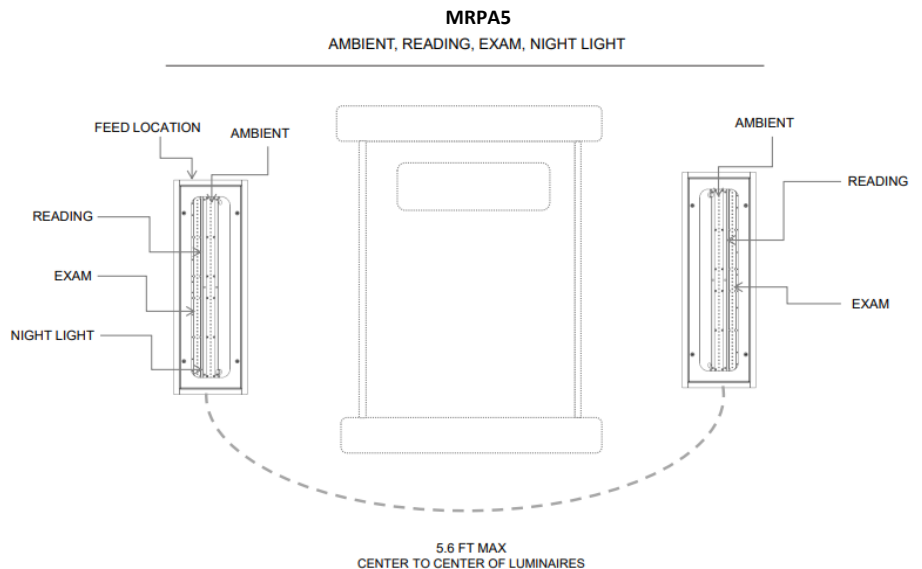
**Warranty** – 5-year limited warranty

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
MRPA5 (pair of luminaires)			
READING (2,000 lm / pair)	1,940	20	97
READING (3,000 lm / pair)	2,788	30	93
AMBIENT (4,000 lm / pair)	4,206	34	123
AMBIENT (6,000 lm / pair)	5,974	52	115
EXAM (8,000 lm / pair)	8,114	78	104
EXAM (12,000 lm / pair)	12,026	116	104

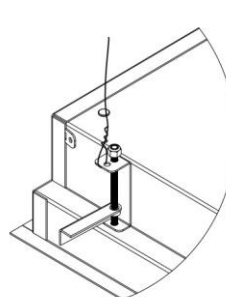
\*Results based on 4000K, 80 CRI

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

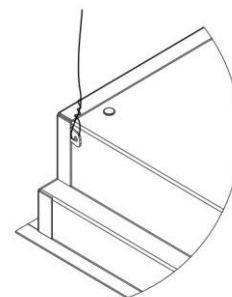
## FIXTURE DETAILS



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



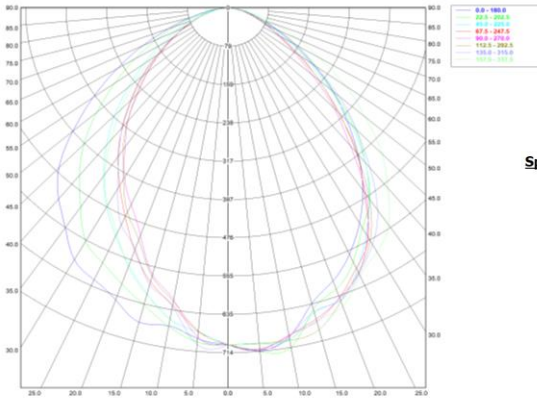
Plaster ceiling / Flange



T-Bar

PHOTOMETRY (1 Luminaire)

READING (1500 lumens / 4000K)



Spacing Criterion:

Table with 2 columns: Configuration and Spacing Criterion value. Values: Two luminaires, plane 0° (1.11), Two luminaires, plane 90° (1.17), Four luminaires (1.18).

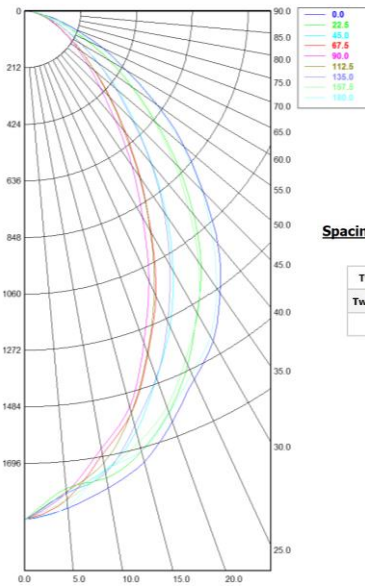
Candela Distribution

Candela distribution table for 1500 lumens / 4000K with columns for angles (0.00° to 180.00°) and rows for beam widths (0.00° to 90.00°).

Zonal Lumen Summary

Zonal lumen summary table for 1500 lumens / 4000K showing Zone, Lumens, and % Fixture for various beam angles.

AMBIENT (3000 lumens / 4000K)



Spacing Criterion:

Table with 2 columns: Configuration and Spacing Criterion value. Values: Two luminaires, plane 0° (1.12), Two luminaires, plane 90° (0.83), Four luminaires (1.02).

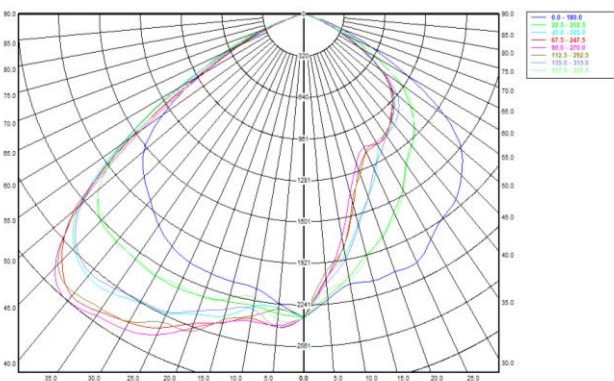
Candela Distribution

Candela distribution table for 3000 lumens / 4000K with columns for angles (0.00° to 180.00°) and rows for beam widths (0.00° to 90.00°).

Zonal Lumen Summary

Zonal lumen summary table for 3000 lumens / 4000K showing Zone, Lumens, and % Fixture for various beam angles.

EXAM (6000 lumens / 4000K)



Spacing Criterion:

Table with 2 columns: Configuration and Spacing Criterion value. Values: Two luminaires, plane 0° (1.27), Two luminaires, plane 90° (0.61), Four luminaires (1.46).

Candela Distribution

Candela distribution table for 6000 lumens / 4000K with columns for angles (0.00° to 180.00°) and rows for beam widths (0.00° to 90.00°).

Zonal Lumen Summary

Zonal lumen summary table for 6000 lumens / 4000K showing Zone, Lumens, and % Fixture for various beam angles.