

PROJECT:

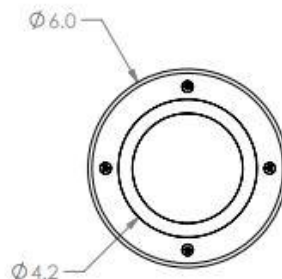
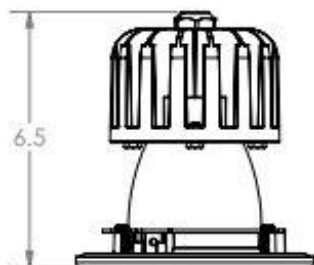
NOTES:

ORDERING INFORMATION:

**EXAMPLE** MDA4 - W20 - 9 - 35 - SS - MW - M4 - 120 - EM - D

SERIES LUMENS CRI KELVIN REFLECTOR TRIM LENS VOLTAGE OPTIONS DRIVER

## SHOP DRAWINGS



## ORDERING INFORMATION

## SERIES

MDA4

## LUMENS\*

W5	500 lm
W10	1000 lm
W20	2000 lm
W30	3000 lm
W20A3	2000 lm (White), 300 lm (Amber)**
A3	300 lm (Amber)

\*Other lumen packages available.

\*\*2 circuits

## CRI

BLANK	80 CRI
9	90 CRI

## KELVIN

27	2700K
30	3000K
35	3500K
40	4000K
50	5000K
TW	Tunable White

## REFLECTOR

MW	Matte White
SS	Semi Specular
CS	Clear Specular

## TRIM FINISH

WH	Matte White
BR	Brushed
AM	Antimicrobial White
BK	Textured Black

## SECURITY LENS (NOMINAL THICKNESS)

M1	Clear Polycarbonate (1/8")
M4	Clear Polycarbonate (1/4")

## VOLTAGE

120	120V
277	277V
347	347V

## OPTIONS

EM	Emergency Power Pack
FU	Fuse and Holder

## DRIVER

ND	Non-dimming applications
D	0-10V Dimming
D1	0-10V Dimming to 1%
DA	DALI Driver



## FEATURES

- > 4" inch diameter LED downlight for anti-vandal and anti-ligature behavioral healthcare applications.
- > Minimum 80 CRI; color range 2700K - 5000K available
- > Multiple dimming protocols available
- > Tunable White option available
- > Colored LED boards optional (white, red, amber)
- > IP65 for recessed applications
- > Security lens tightly secured fastened internally with multiple screws
- > IK10 rated
- > Anti-ligature
- > Operating temperature (-30 to 45 Celsius / -22 to 113 Fahrenheit)

## APPLICATIONS

- > Hospitals
- > Rehabilitation Centers
- > Behavioral Healthcare Facilities
- > Canopies

ÉCLAIRAGES

**PACO**  
LIGHTING

## FIXTURE PERFORMANCE DATA

## SPECIFICATIONS

**Reflector**– Clear-specular, semi-specular or white spun aluminum reflector. Other finishes available on request.

**Lens** – Flush 1/8" or 1/4" high impact Polycarbonate lens for high abuse retained by screws on trim. Other lens thicknesses available on request.

**Finish** – Baked white matte powder finish or brushed finish on trim. Antimicrobial matte white paint available.

**Electrical** – High quality high-power LED board. L80 >50,000 hours..

**Mounting** – Recessed

**Listings** –

- cUL certified for non-IC installations
- IP65 certified

**Warranty** – 5-year limited warranty

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
W5 (semi-specular)	558	8	70
W10 (semi-specular)	1,116	16	70
W20 (semi-specular)	2,232	31	72
W30 (semi-specular)	3,240	45	72
W5 (matte white)	496	7	70
W10 (matte white)	1,001	15	67
W20 (matte white)	1,989	32	62
W30 (matte white)	2,887	45	64

\*Results based on 4000K, 80 CRI, M1 lens (1/8")

\*\*Luminaire is available in all wattages ranging from 3 watts to 53 watts.

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

## PLASTER FRAME DIMENSIONS

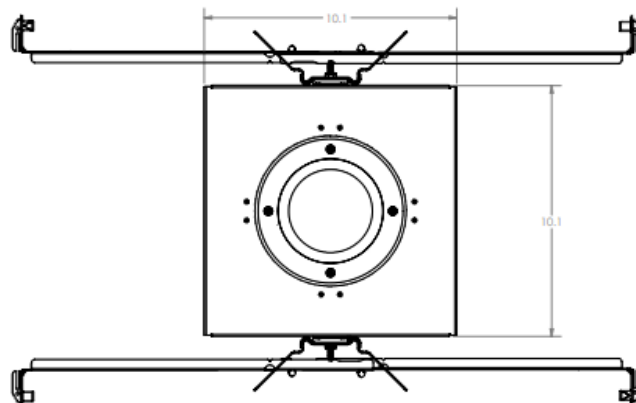
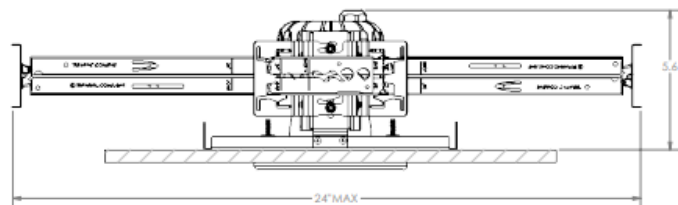
## NEW CONSTRUCTION PLASTER FRAME KIT FOR NON-IC

Plaster frame with hanger bars system for new construction installations.

Suitable for insulated ceiling applications.

Plaster frame can be shipped separately.

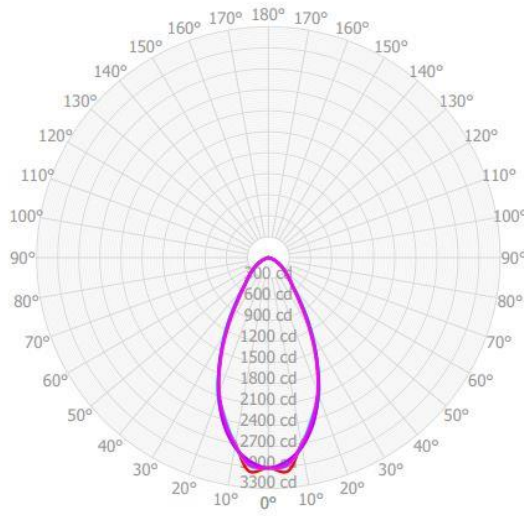
Ceiling thickness: 1/8" - 1 1/8" (3 - 35mm) Weight: 10.77 lbs



PHOTOMETRY

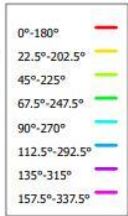
MDA4-W30-940-MW-M1 Total Luminaire Output: 2,887 lumens; 53 Watts

**Candela Polar Plot**



**Full Beam Angle**

0° - 180°	51.65°
90° - 270°	52.78°

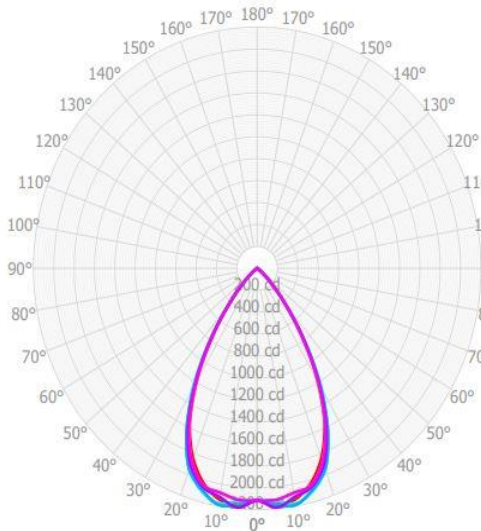


**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	3008.07	3008.07	3008.07	3008.07	3008.07
5.00°	<b>3072.11</b>	2983.68	2927.72	2970.65	2997.29
10.00°	2700.82	2724.09	2749.78	2747.73	2713.23
15.00°	2424.04	2403.50	2462.63	2443.79	2375.92
20.00°	2067.98	2051.15	2069.70	2093.78	2079.05
25.00°	1610.19	1622.07	1638.45	1631.72	1655.14
30.00°	1161.95	1178.27	1186.09	1220.18	1226.19
35.00°	769.31	778.56	802.35	837.88	830.24
40.00°	523.32	540.61	543.71	546.18	551.51
45.00°	417.28	409.01	410.10	407.13	411.43
50.00°	315.89	320.10	314.20	308.32	317.09
55.00°	237.52	236.26	239.09	240.47	236.62
60.00°	168.58	170.28	169.83	173.08	169.07
65.00°	108.56	114.46	109.75	111.74	105.71
70.00°	60.64	60.39	58.80	60.90	61.77
75.00°	25.32	26.25	23.44	25.36	24.77
80.00°	8.88	9.40	8.66	8.77	8.62
85.00°	3.83	3.41	3.36	3.33	2.71
90.00°	0.55	0.52	0.43	0.75	0.92

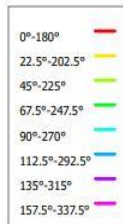
MDA4-W20-940-SS-M1 Total Luminaire Output: 2,232 lumens; 36 Watts

**Candela Polar Plot**



**Full Beam Angle**

0° - 180°	62.33°
90° - 270°	63.88°



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	2119.09	2119.09	2119.09	2119.09	2119.09
5.00°	2163.00	2119.85	2189.01	2167.94	2128.02
10.00°	2140.33	2078.94	2119.17	<b>2189.20</b>	2177.58
15.00°	2031.88	2050.41	2066.18	2094.73	2105.33
20.00°	1845.02	1879.03	1914.36	1953.80	1952.86
25.00°	1569.27	1585.42	1609.86	1647.70	1624.50
30.00°	1187.35	1209.27	1219.97	1242.38	1269.56
35.00°	789.31	779.39	805.68	818.78	818.17
40.00°	436.45	443.93	443.73	446.43	437.43
45.00°	212.46	211.34	211.01	208.96	207.46
50.00°	81.45	82.49	82.93	82.72	86.00
55.00°	31.07	32.13	31.08	33.03	33.43
60.00°	13.92	13.33	14.83	13.87	13.95
65.00°	7.51	6.77	7.34	7.22	6.93
70.00°	3.91	3.39	3.46	3.82	4.31
75.00°	1.77	1.97	2.24	2.27	1.76
80.00°	0.90	0.74	0.82	0.85	0.59
85.00°	0.08	0.06	0.08	0.02	0.06
90.00°	0.05	0.02	0.07	0.04	0.09