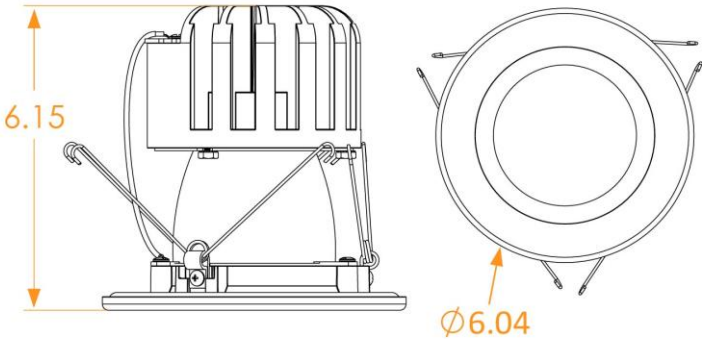


PROJECT:

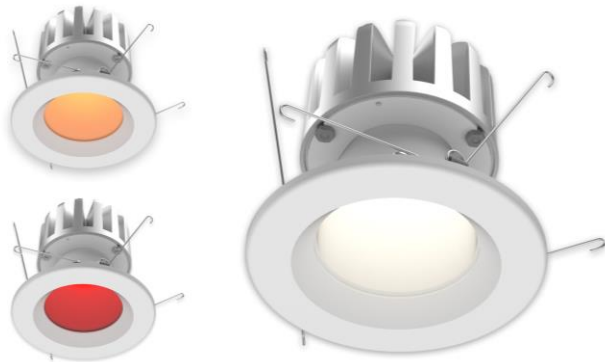
NOTES:

ORDERING INFORMATION:

SHOP DRAWINGS



SANTE SERIES



Optional

ORDERING INFORMATION

SERIES
MD4

LUMENS*
W5 500 lm (White)
W10 1000 lm (White)
W20 2000 lm (White)
W30 3000 lm (White)
W20A3 2000 lm (White), 300 lm (Amber)**
A3 300 lm (Amber)
W20R2 2000 lm (White), 200 lm (Red)**
R2 200 lm (Red)

*Other lumen packages available.

**2 circuits

CRI
8 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

OPTIC
SY Symmetric Distribution
WW Asymmetric Wall washer*

*Only available with FL 2000 lm max

LENS
RL Regressed Lens
FL Flush Lens (NSF)*

* Needed for FED-STD-209E/Class 100 (ISO5-9) suitable

TRIM FINISH
WH Matte White
BR Brushed
AM Antimicrobial Matte White
BK Textured Black

VOLTAGE
120 120V
277 277V
347 347V

OPTIONS
EM Emergency Power Pack
FU Fuse and Holder
IC Sealed IC Box*
CH Chicago Plenum Optional

* Needed for FED-STD-209E/Class 100 (ISO5-9) suitable

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

FEATURES

- > 4" inch diameter specification grade LED downlight for medical 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 (flush and regressed lens)
- > NSF Certified for Splash Zone Installations (flush lens only)
- > Operating temperature (-40 to 45 Celsius / -22 to 113 Fahrenheit)
- > FED-STD-209E/Class 100 (ISO5-9) suitable (IC Box and Flus Lens needed)

APPLICATIONS

- > Hospitals
- > Nursing Homes
- > Medical Clinics
- > Patient Rooms
- > Laboratories
- > Canopies

PACO

LED

SPECIFICATIONS

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

Lens – Flush lens or regressed lens available.

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

Electrical – High-quality mid-power LED boards. L80 >50,000 hours.

Mounting – Mounted on a plaster frame using a strong clips system to secure it.

- Listings** –
- cUL certified for non-IC installations
 - IP65 certified
 - NSF certified for splash zone installations.

Warranty – 5-year limited warranty

FIXTURE PERFORMANCE DATA

LED PACKAGE	DELIVERED LUMENS	WATTAGE
5 (semi-specular)	429 lm	7W
10 (semi-specular)	858 lm	13W
20 (semi-specular)	1717 lm	26W
30 (semi-specular)	2575 lm	40W
40 (semi-specular)	3433 lm	53W
5 (matte white)	412 lm	7 W
10 (matte white)	825 lm	13W
20 (matte white)	1650 lm	26W
30 (matte white)	2475 lm	40W
40 (matte white)	3300 lm	53W
5 (clear-specular)	474 lm	7W
10 (clear-specular)	947 lm	13W
20 (clear-specular)	1894 lm	26W
30 (clear-specular)	2841 lm	40W
40 (clear-specular)	3789 lm	53W

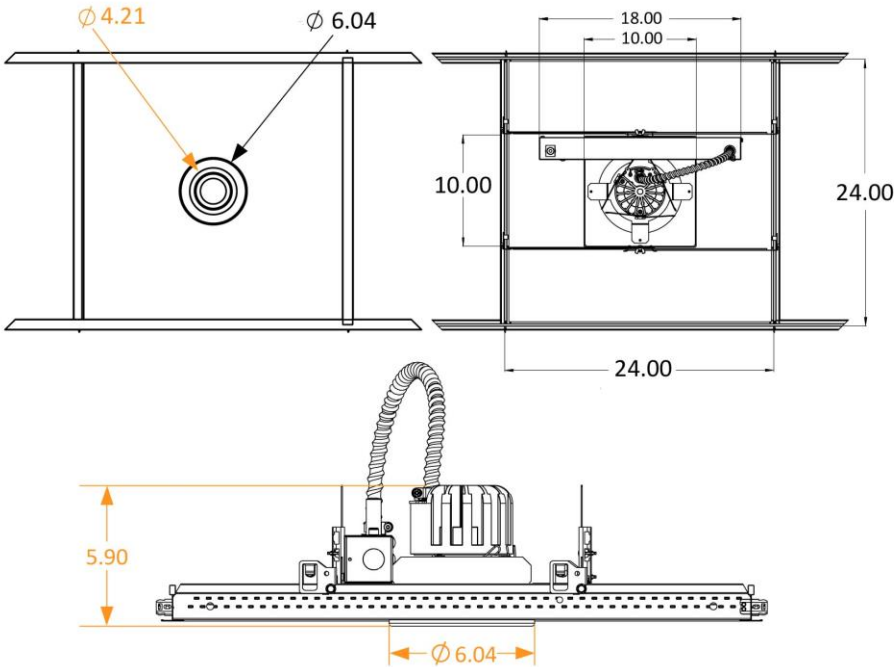
*Results based on 4000K, 80 CRI, flush lens
**Luminaire is available in all wattages ranging from 7 watts to 53 watts.

Approximate CCT Multiplier	80 CRI	90 CRI
2700K	0.9	0.75
3000K	0.95	0.8
3500K	0.97	0.82
4000K	1	0.85
5000K	1.03	0.88

INSTALLATION OPTIONS

NEW CONSTRUCTION PLASTER FRAME KIT FOR NON IC

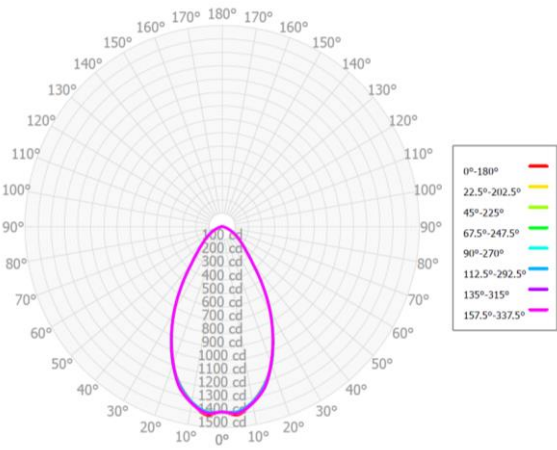
Plaster frame with hanger bars system for new construction installations.
Suitable for non-IC applications.
Plaster frame can be shipped separately.
Ceiling thickness: ½"-1" (13mm - 25mm)
Weight of MD4/plaster frame/driver: 10.73 lbs
Ceiling Aperture: 5"



PHOTOMETRIC REPORT

MD4-W20-40-MW-FL Total Luminaire Output: 1,650 lm lumens; 37 Watts

CANDELA POLAR PLOT



FULL BEAM ANGLE

0° - 180°	61.08°
90° - 270°	61.3°

OUTPUT

Total Output Luminous flux	1650 lm
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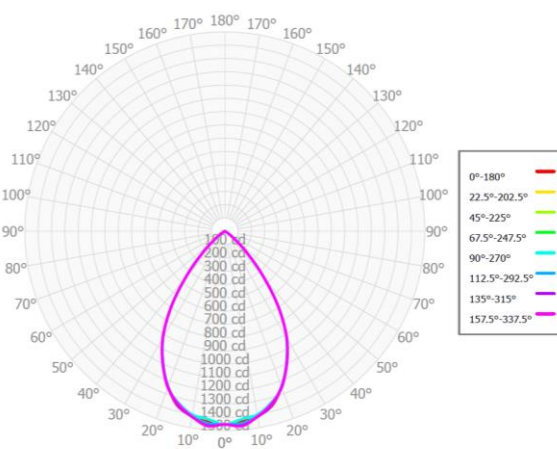
CANDELA DISTRIBUTION

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	1385.48	1385.48	1385.48	1385.48	1385.48
5.00°	1412.70	1400.90	1397.76	1386.90	1394.16
10.00°	1330.31	1341.30	1337.81	1332.09	1328.69
15.00°	1228.59	1247.95	1248.52	1233.02	1248.08
20.00°	1093.72	1085.11	1094.44	1092.66	1090.38
25.00°	919.33	910.14	912.58	916.88	908.37
30.00°	727.18	725.95	731.30	730.28	731.64
35.00°	534.03	534.85	536.60	538.30	536.74
40.00°	359.11	361.93	365.68	362.10	360.56
45.00°	260.99	258.61	256.90	260.23	261.71
50.00°	191.05	192.53	192.34	193.65	192.51
55.00°	143.71	145.26	145.54	145.21	144.84
60.00°	102.42	103.64	103.55	104.36	103.58
65.00°	67.87	67.78	68.25	67.46	67.42
70.00°	36.98	36.49	37.24	36.71	36.69
75.00°	13.60	13.62	13.84	13.52	13.94
80.00°	4.80	4.62	4.62	4.96	5.18
85.00°	1.88	2.04	1.92	2.08	2.10
90.00°	0.31	0.26	0.48	0.35	0.49

PHOTOMETRIC REPORT

MD4-W20-40-SS-FL Total Luminaire Output: 1,717 lm lumens; 26 Watts

CANDELA POLAR PLOT



FULL BEAM ANGLE

0° - 180°	68.91°
90° - 270°	68.92°

OUTPUT

Total Output Luminous flux	1717 lm
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CANDELA DISTRIBUTION

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	1453.89	1453.89	1453.88	1453.88	1453.89
5.00°	1437.49	1472.67	1467.84	1452.35	1419.81
10.00°	1414.36	1415.45	1418.38	1414.03	1400.86
15.00°	1363.41	1345.61	1357.29	1351.51	1336.27
20.00°	1248.13	1250.95	1246.55	1243.96	1253.70
25.00°	1092.45	1099.70	1102.70	1095.75	1092.02
30.00°	935.31	930.51	931.65	927.07	924.23
35.00°	712.02	707.34	708.38	709.76	713.47
40.00°	461.28	461.32	460.68	460.61	466.97
45.00°	253.15	252.10	253.04	252.94	252.37
50.00°	114.17	114.46	114.74	115.72	115.80
55.00°	47.40	46.87	46.17	46.20	47.22
60.00°	18.94	18.45	18.48	19.32	18.81
65.00°	8.07	8.19	7.71	8.02	7.66
70.00°	3.79	3.86	3.88	3.94	3.83
75.00°	1.91	1.74	1.65	1.72	1.97
80.00°	0.56	0.60	0.54	0.51	0.67
85.00°	0.31	0.22	0.17	0.23	0.21
90.00°	0.08	0.09	0.04	0.09	0.05

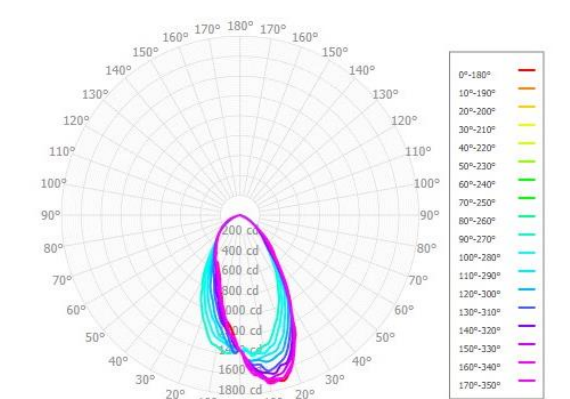
PHOTOMETRIC REPORT

MD4-W20-40-MW-WW-FL Total Luminaire Output: 1,819 lm lumens; 48 Watts

CANDELA POLAR PLOT

FULL BEAM ANGLE

CANDELA DISTRIBUTION



0° - 180°	45.33°
90° - 270°	53.34°

OUTPUT

Total Output Luminous flux	1819 lm
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	0.00°	10.00°	20.00°	30.00°	40.00°	50.00°	60.00°	70.00°	80.00°	90.00°
0.00°	1381.41	1381.41	1381.41	1381.41	1381.41	1381.41	1381.41	1381.41	1381.41	1381.41
2.50°	1498.74	1515.94	1448.47	1504.45	1448.93	1445.04	1453.03	1404.23	1342.40	1370.52
5.00°	1836.78	1808.47	1884.78	1871.82	1837.51	1811.88	1470.50	1487.48	1422.82	1304.54
7.50°	1801.71	1835.27	1852.08	1813.91	1800.82	1818.95	1470.44	1459.80	1365.10	1377.10
10.00°	1858.82	1719.01	1881.21	1873.21	1811.44	1800.43	1487.88	1438.58	1408.72	1340.84
12.50°	1701.90	1712.18	1886.50	1886.70	1829.28	1875.45	1490.18	1425.82	1389.81	1320.07
15.00°	1721.14	1862.83	1862.31	1842.88	1800.58	1838.59	1459.38	1409.25	1338.91	1249.42
17.50°	1888.86	1880.88	1827.33	1881.00	1857.80	1497.20	1429.28	1342.07	1244.40	1181.83
20.00°	1882.23	1863.30	1889.81	1818.45	1479.87	1412.80	1339.27	1272.88	1187.30	1085.91
22.50°	1413.29	1430.31	1434.79	1409.87	1388.04	1309.80	1248.74	1185.04	1081.08	1007.43
25.00°	1322.37	1287.22	1301.08	1285.95	1283.07	1215.04	1148.17	1078.21	987.22	931.07
27.50°	1132.27	1143.70	1128.78	1129.48	1128.81	1105.70	1051.58	988.88	895.32	825.39
30.00°	1011.81	988.82	992.40	984.11	1005.01	984.14	947.14	888.34	813.09	749.45
32.50°	880.88	885.91	878.03	842.39	837.83	840.44	814.81	788.85	727.31	685.85
35.00°	785.80	770.82	758.44	728.89	693.85	690.20	693.79	651.10	610.97	571.83
37.50°	680.20	682.10	635.31	602.59	588.28	587.01	584.17	551.85	521.20	480.89
40.00°	584.78	548.73	532.14	502.91	483.87	431.59	437.88	438.25	432.37	423.33
42.50°	484.48	481.37	483.84	435.50	382.91	388.02	384.30	377.35	387.99	384.80
45.00°	438.17	428.35	407.49	378.88	345.24	321.81	321.58	325.95	332.07	328.43
47.50°	387.45	388.37	342.80	325.85	301.30	278.12	271.93	288.05	288.88	288.08
50.00°	303.38	298.82	288.31	273.83	253.84	242.82	236.47	247.85	258.08	258.80
52.50°	238.44	233.22	228.72	228.32	210.09	211.08	202.77	214.81	221.59	227.89
55.00°	188.84	188.88	182.15	178.71	174.73	188.48	170.25	184.32	192.89	201.35
57.50°	138.13	138.50	138.78	138.35	138.87	143.48	143.29	148.85	161.79	170.89
60.00°	101.40	101.10	100.88	103.74	108.38	111.05	115.18	120.82	130.83	141.88

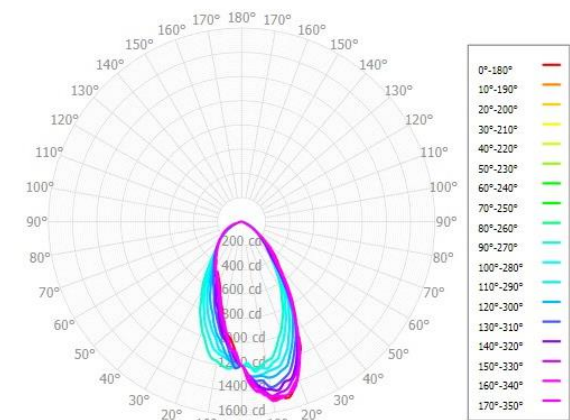
PHOTOMETRIC REPORT

MD4-W20-950-MW-WW-FL Total Luminaire Output: 1,591 lm lumens; 42 Watts

CANDELA POLAR PLOT

FULL BEAM ANGLE

CANDELA DISTRIBUTION



0° - 180°	45.33°
90° - 270°	53.34°

OUTPUT

Total Output Luminous flux	1591 lm
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	0.00°	10.00°	20.00°	30.00°	40.00°	50.00°	60.00°	70.00°	80.00°	90.00°
0.00°	1190.91	1190.91	1190.91	1190.91	1190.91	1190.91	1190.91	1190.91	1190.91	1190.91
2.50°	1309.29	1328.88	1285.31	1318.03	1287.48	1284.08	1271.05	1280.84	1174.35	1188.87
5.00°	1344.29	1407.89	1388.80	1374.96	1344.85	1322.35	1288.33	1283.90	1244.71	1218.88
7.50°	1401.11	1430.48	1445.14	1411.78	1390.79	1328.87	1288.28	1274.44	1220.38	1204.83
10.00°	1483.25	1503.71	1470.85	1483.88	1409.81	1381.24	1310.11	1258.39	1232.29	1172.73
12.50°	1488.78	1487.71	1474.41	1448.34	1425.21	1378.13	1303.88	1248.98	1195.48	1154.74
15.00°	1505.58	1480.84	1480.38	1458.93	1373.00	1345.90	1278.80	1232.75	1189.47	1092.94
17.50°	1449.20	1482.88	1423.82	1382.99	1382.70	1308.88	1260.25	1173.88	1088.82	1018.41
20.00°	1387.83	1387.81	1384.48	1328.27	1283.83	1238.80	1171.83	1113.55	1021.10	958.91
22.50°	1238.28	1281.17	1285.08	1233.38	1198.70	1145.88	1092.35	1018.13	945.88	881.28
25.00°	1188.75	1128.01	1138.13	1107.40	1098.13	1082.88	1002.82	941.42	872.32	814.48
27.50°	980.48	1000.48	987.38	988.38	985.51	987.22	918.88	848.41	783.19	722.02
30.00°	884.82	884.28	888.11	880.88	878.14	880.88	828.81	777.09	711.28	655.58
32.50°	778.30	783.71	789.48	788.88	732.72	735.18	712.78	672.88	638.22	582.28
35.00°	682.80	674.37	684.33	637.80	608.95	603.78	608.80	588.88	534.45	500.30
37.50°	688.77	670.43	685.78	627.12	485.34	487.25	483.51	482.74	485.82	428.41
40.00°	488.28	478.28	485.48	436.82	408.77	377.54	383.11	384.25	378.22	370.31
42.50°	432.55	421.08	405.75	380.88	343.70	321.88	318.87	330.09	321.80	318.84
45.00°	381.58	372.85	388.45	328.88	302.88	281.81	281.11	285.13	290.48	287.28
47.50°	321.43	314.38	288.88	285.04	283.88	244.18	237.87	251.97	253.40	280.78
50.00°	288.38	289.47	288.45	238.83	221.78	212.15	208.88	218.80	225.75	228.21
52.50°	208.48	204.81	200.88	197.10	183.78	184.82	177.37	187.80	193.84	188.88
55.00°	183.28	188.31	188.33	184.88	182.88	148.82	148.83	181.23	188.88	178.14
57.50°	128.83	119.40	118.83	118.40	122.18	125.48	125.35	130.29	141.83	148.48
60.00°	88.70	88.48	87.88	90.75	94.80	97.15	100.78	105.88	119.82	123.83