

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1498152

Luminaire Tested: MAE-G-2-120-1LO-HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1LO-HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

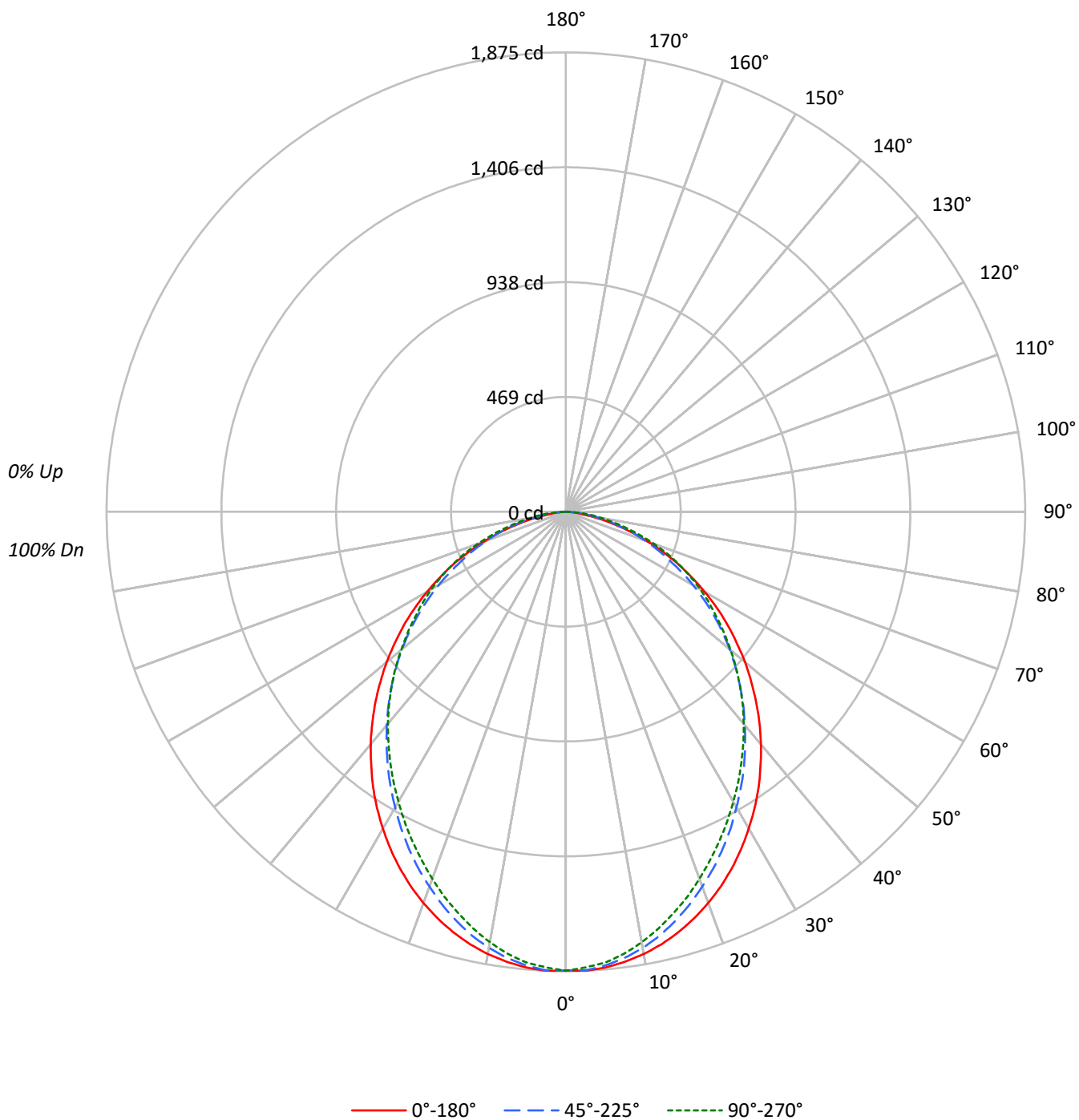
Lumens per Lamp: N/A
Luminaire Lumens: 4429.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1498152

CATALOG NUMBER: MAE-G-2-120-1LO-HI-35-90

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	56		64
5	77	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5040	5040	5040
5°	5043	5021	4989
10°	5009	4940	4876
15°	4949	4815	4725
20°	4867	4663	4565
25°	4763	4503	4403
30°	4641	4328	4247
35°	4507	4164	4104
40°	4353	3994	3968
45°	4182	3828	3823
50°	3998	3653	3673
55°	3784	3456	3527
60°	3524	3231	3416
65°	3217	2959	3249
70°	2802	2703	3009
75°	2249	2382	2646
80°	1570	1951	2266
85°	886	1565	2109

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4182 cd/sqm

TEST NUMBER: P1498152

CATALOG NUMBER: MAE-G-2-120-1LO-HI-35-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	4.0
10°-20°	487.3	11.0
20°-30°	703.9	15.9
30°-40°	805.8	18.2
40°-50°	793.7	17.9
50°-60°	677.1	15.3
60°-70°	481.9	10.9
70°-80°	245.7	5.5
80°-90°	58.1	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1366.8	30.9
0°-40°	2172.6	49.1
0°-60°	3643.3	82.3
0°-90°	4429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1873	1873	1873	1873	1873	
5°	1867	1866	1859	1843	1847	177
15°	1776	1764	1728	1695	1696	501
25°	1604	1574	1517	1483	1483	738
35°	1372	1329	1267	1247	1249	857
45°	1099	1057	1006	1001	1005	847
55°	807	768	737	742	752	720
65°	505	474	465	496	510	500
75°	216	203	229	250	254	233
85°	29	36	51	63	68	40
90°	0	0	0	0	0	

TEST NUMBER: P1498152

CATALOG NUMBER: MAE-G-2-120-1LO-HI-35-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1873.1	1873.1	1873.1	1873.1	1873.1
2.5°	1875.1	1877.0	1873.1	1857.7	1861.3
5°	1867.0	1865.7	1858.8	1842.6	1847.1
7.5°	1852.4	1849.3	1837.0	1817.2	1819.9
10°	1833.0	1826.7	1807.8	1782.7	1784.3
12.5°	1807.7	1798.7	1771.6	1742.0	1743.2
15°	1776.3	1763.6	1728.2	1695.4	1696.0
17.5°	1740.3	1724.5	1681.1	1645.3	1648.1
20°	1699.6	1678.8	1628.3	1592.7	1594.1
22.5°	1654.2	1628.8	1574.6	1538.9	1538.4
25°	1604.3	1573.8	1516.6	1483.1	1482.9
27.5°	1550.8	1516.8	1456.4	1424.4	1425.7
30°	1493.5	1456.5	1393.0	1365.5	1366.9
32.5°	1434.3	1394.5	1331.2	1307.2	1308.7
35°	1372.0	1328.9	1267.4	1246.7	1249.2
37.5°	1305.4	1263.3	1201.8	1187.7	1189.4
40°	1239.1	1195.6	1137.0	1126.3	1129.6
42.5°	1170.1	1127.4	1072.1	1064.0	1068.2
45°	1098.8	1056.6	1005.8	1001.1	1004.6
47.5°	1026.6	985.4	940.0	937.2	942.7
50°	955.0	914.6	872.7	873.3	877.3
52.5°	879.1	840.9	805.6	807.3	815.1
55°	806.6	767.8	736.7	742.2	751.8
57.5°	731.1	697.1	669.0	680.1	693.8
60°	654.7	621.7	600.3	620.0	634.7
62.5°	579.3	547.4	531.5	559.4	572.7
65°	505.3	474.4	464.7	496.3	510.3
67.5°	430.9	403.4	403.9	438.0	448.6
70°	356.1	331.1	343.6	374.6	382.4
72.5°	284.9	264.6	286.3	312.2	316.9
75°	216.3	202.8	229.1	250.1	254.5
77.5°	155.2	148.2	174.8	192.4	197.4
80°	101.3	103.4	125.9	141.1	146.2
82.5°	59.4	65.6	83.9	100.2	105.6
85°	28.7	36.1	50.7	62.9	68.3
87.5°	9.8	14.7	21.5	23.9	23.2
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.46	18.05	16.83	18.36	18.68	16.27	17.85	16.63	18.16	18.48
	3H	17.94	19.37	18.32	19.69	20.05	18.02	19.45	18.40	19.78	20.14
	4H	18.38	19.72	18.78	20.07	20.45	18.63	19.97	19.02	20.31	20.69
	6H	18.61	19.85	19.02	20.22	20.61	19.03	20.27	19.44	20.64	21.03
	8H	18.65	19.84	19.08	20.22	20.62	19.16	20.35	19.59	20.74	21.14
	12H	18.66	19.79	19.09	20.17	20.60	19.26	20.39	19.69	20.77	21.20
4H	2H	16.95	18.29	17.34	18.63	19.01	16.78	18.12	17.18	18.47	18.85
	3H	18.61	19.73	19.02	20.13	20.53	18.75	19.87	19.16	20.27	20.67
	4H	19.14	20.15	19.57	20.56	21.00	19.48	20.49	19.91	20.90	21.34
	6H	19.46	20.34	19.92	20.78	21.24	20.01	20.88	20.46	21.33	21.78
	8H	19.52	20.34	19.98	20.79	21.25	20.18	21.00	20.64	21.45	21.91
	12H	19.55	20.29	20.03	20.76	21.23	20.32	21.06	20.80	21.54	22.01
8H	4H	19.38	20.20	19.84	20.65	21.11	19.69	20.51	20.15	20.95	21.42
	6H	19.78	20.46	20.27	20.94	21.42	20.31	20.99	20.81	21.48	21.96
	8H	19.88	20.48	20.39	20.99	21.48	20.56	21.17	21.07	21.67	22.16
	12H	19.94	20.47	20.44	20.97	21.53	20.77	21.31	21.28	21.80	22.36
12H	4H	19.40	20.14	19.89	20.62	21.09	19.69	20.43	20.17	20.90	21.37
	6H	19.81	20.42	20.32	20.93	21.42	20.33	20.94	20.84	21.45	21.93
	8H	19.96	20.49	20.46	20.98	21.55	20.62	21.16	21.13	21.65	22.21