

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: P1498167

Luminaire Tested: MAE-G-2-120-1LO-HI-50

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498167
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-50
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

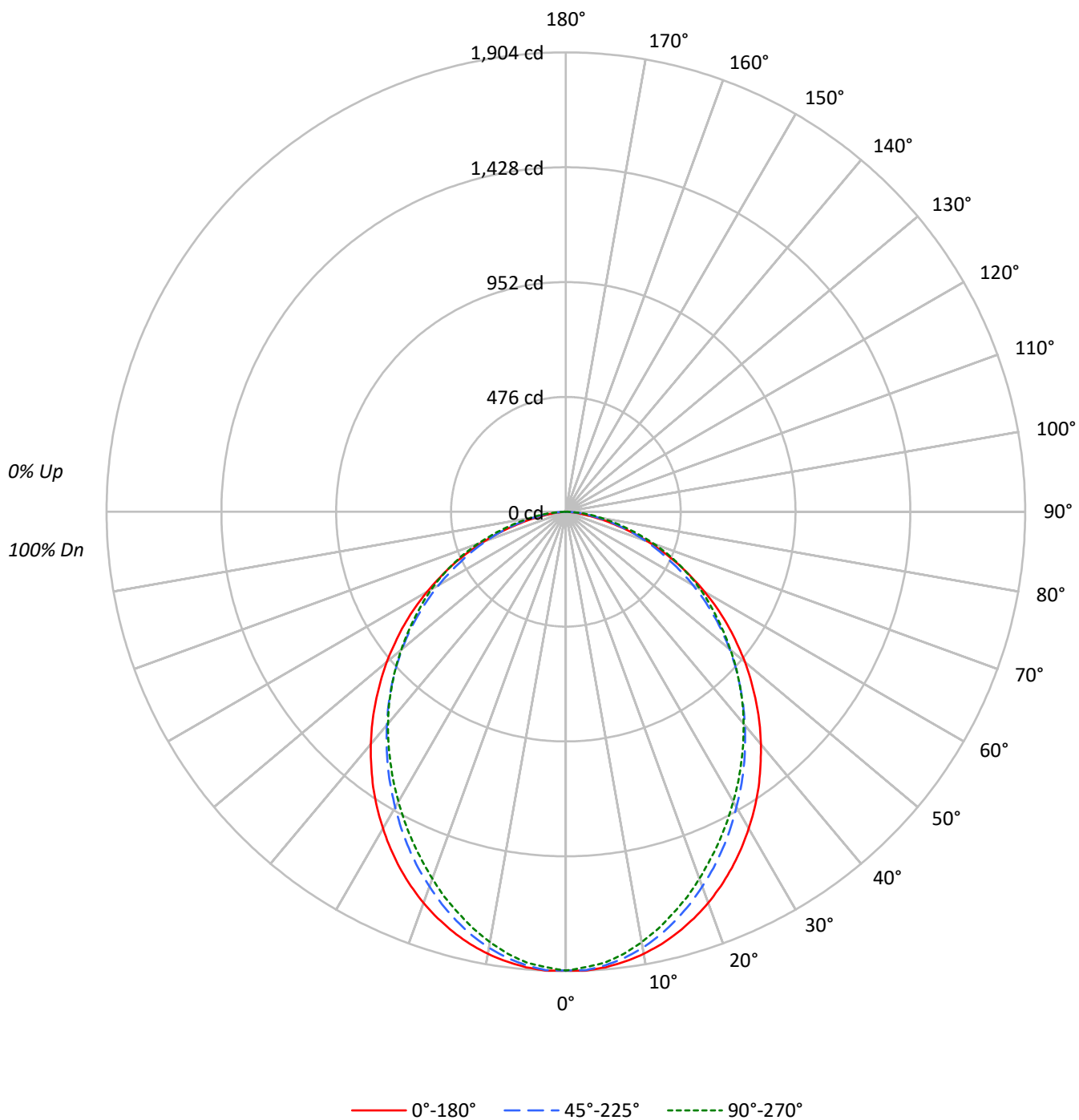
Lumens per Lamp: N/A
Luminaire Lumens: 4496.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	5117	5117	5117
5°	5119	5097	5065
10°	5085	5015	4949
15°	5023	4888	4796
20°	4940	4733	4634
25°	4835	4571	4470
30°	4711	4394	4312
35°	4575	4226	4166
40°	4419	4055	4028
45°	4245	3886	3881
50°	4059	3709	3728
55°	3841	3508	3581
60°	3577	3280	3468
65°	3266	3004	3298
70°	2844	2744	3054
75°	2283	2417	2686
80°	1595	1982	2300
85°	898	1587	2140

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	4.0
10°-20°	494.6	11.0
20°-30°	714.5	15.9
30°-40°	818.0	18.2
40°-50°	805.7	17.9
50°-60°	687.3	15.3
60°-70°	489.2	10.9
70°-80°	249.4	5.5
80°-90°	58.9	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°	1387.4	30.9
0°-40°	2205.4	49.1
0°-60°	3698.5	82.3
0°-90°	4496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1895	1894	1887	1870	1875	180
15°	1803	1790	1754	1721	1722	508
25°	1628	1598	1540	1506	1505	750
35°	1393	1349	1286	1266	1268	870
45°	1116	1073	1021	1016	1020	860
55°	819	779	748	754	763	731
65°	513	482	472	504	518	507
75°	220	206	232	254	258	237
85°	29	37	51	64	69	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1901.5	1901.5	1901.5	1901.5	1901.5
2.5°	1903.5	1905.5	1901.5	1885.8	1889.4
5°	1895.2	1893.9	1886.9	1870.5	1875.1
7.5°	1880.4	1877.2	1864.7	1844.7	1847.4
10°	1860.8	1854.4	1835.2	1809.7	1811.3
12.5°	1835.1	1825.8	1798.4	1768.3	1769.6
15°	1803.1	1790.2	1754.4	1721.1	1721.6
17.5°	1766.6	1750.7	1706.6	1670.1	1673.1
20°	1725.2	1704.3	1652.9	1616.9	1618.2
22.5°	1679.1	1653.4	1598.4	1562.2	1561.7
25°	1628.5	1597.6	1539.5	1505.6	1505.4
27.5°	1574.3	1539.8	1478.4	1446.0	1447.4
30°	1516.1	1478.5	1414.1	1386.1	1387.6
32.5°	1455.9	1415.7	1351.3	1327.0	1328.5
35°	1392.7	1349.0	1286.5	1265.6	1268.1
37.5°	1325.1	1282.4	1219.9	1205.6	1207.4
40°	1257.9	1213.7	1154.3	1143.3	1146.6
42.5°	1187.8	1144.5	1088.3	1080.2	1084.4
45°	1115.5	1072.6	1021.1	1016.2	1019.8
47.5°	1042.1	1000.3	954.2	951.4	957.0
50°	969.5	928.4	886.0	886.5	890.5
52.5°	892.4	853.5	817.7	819.5	827.4
55°	818.7	779.4	747.7	753.5	763.2
57.5°	742.1	707.6	679.2	690.5	704.3
60°	664.6	631.2	609.4	629.4	644.3
62.5°	588.1	555.7	539.5	567.9	581.4
65°	513.0	481.5	471.7	503.8	518.0
67.5°	437.4	409.5	410.0	444.6	455.3
70°	361.5	336.1	348.8	380.3	388.2
72.5°	289.2	268.6	290.6	316.9	321.7
75°	219.6	205.8	232.5	253.9	258.3
77.5°	157.6	150.4	177.5	195.3	200.4
80°	102.9	105.0	127.9	143.2	148.4
82.5°	60.3	66.5	85.2	101.8	107.1
85°	29.1	36.6	51.4	63.8	69.3
87.5°	9.9	14.9	21.8	24.3	23.6
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	16.52	18.10	16.88	18.41	18.73	16.32	17.90	16.69	18.22	18.53
	3H	17.99	19.42	18.37	19.74	20.10	18.08	19.50	18.45	19.83	20.19
	4H	18.43	19.77	18.83	20.12	20.50	18.68	20.02	19.08	20.37	20.74
	6H	18.67	19.91	19.08	20.27	20.66	19.08	20.32	19.50	20.69	21.08
	8H	18.70	19.89	19.13	20.28	20.68	19.22	20.40	19.64	20.79	21.19
	12H	18.71	19.85	19.14	20.23	20.66	19.31	20.45	19.74	20.83	21.26
4H	2H	17.00	18.34	17.40	18.69	19.06	16.84	18.18	17.24	18.53	18.90
	3H	18.67	19.78	19.08	20.18	20.58	18.81	19.92	19.22	20.32	20.72
	4H	19.19	20.20	19.63	20.62	21.05	19.53	20.54	19.96	20.95	21.39
	6H	19.51	20.39	19.97	20.83	21.29	20.06	20.94	20.51	21.38	21.84
	8H	19.58	20.40	20.04	20.84	21.31	20.24	21.06	20.70	21.50	21.97
	12H	19.60	20.34	20.08	20.81	21.28	20.38	21.11	20.86	21.59	22.06
8H	4H	19.44	20.26	19.90	20.70	21.16	19.74	20.56	20.20	21.00	21.47
	6H	19.83	20.51	20.32	21.00	21.47	20.37	21.05	20.86	21.54	22.01
	8H	19.93	20.54	20.44	21.04	21.53	20.61	21.22	21.12	21.73	22.21
	12H	19.99	20.53	20.50	21.02	21.58	20.82	21.36	21.33	21.85	22.42
12H	4H	19.46	20.19	19.94	20.67	21.14	19.74	20.48	20.22	20.95	21.42
	6H	19.86	20.47	20.37	20.98	21.47	20.38	20.99	20.89	21.50	21.98
	8H	20.01	20.55	20.52	21.04	21.60	20.67	21.21	21.18	21.70	22.26