

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: P1498449

Luminaire Tested: MAE-G-2-120-2LO-HI-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-HI-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

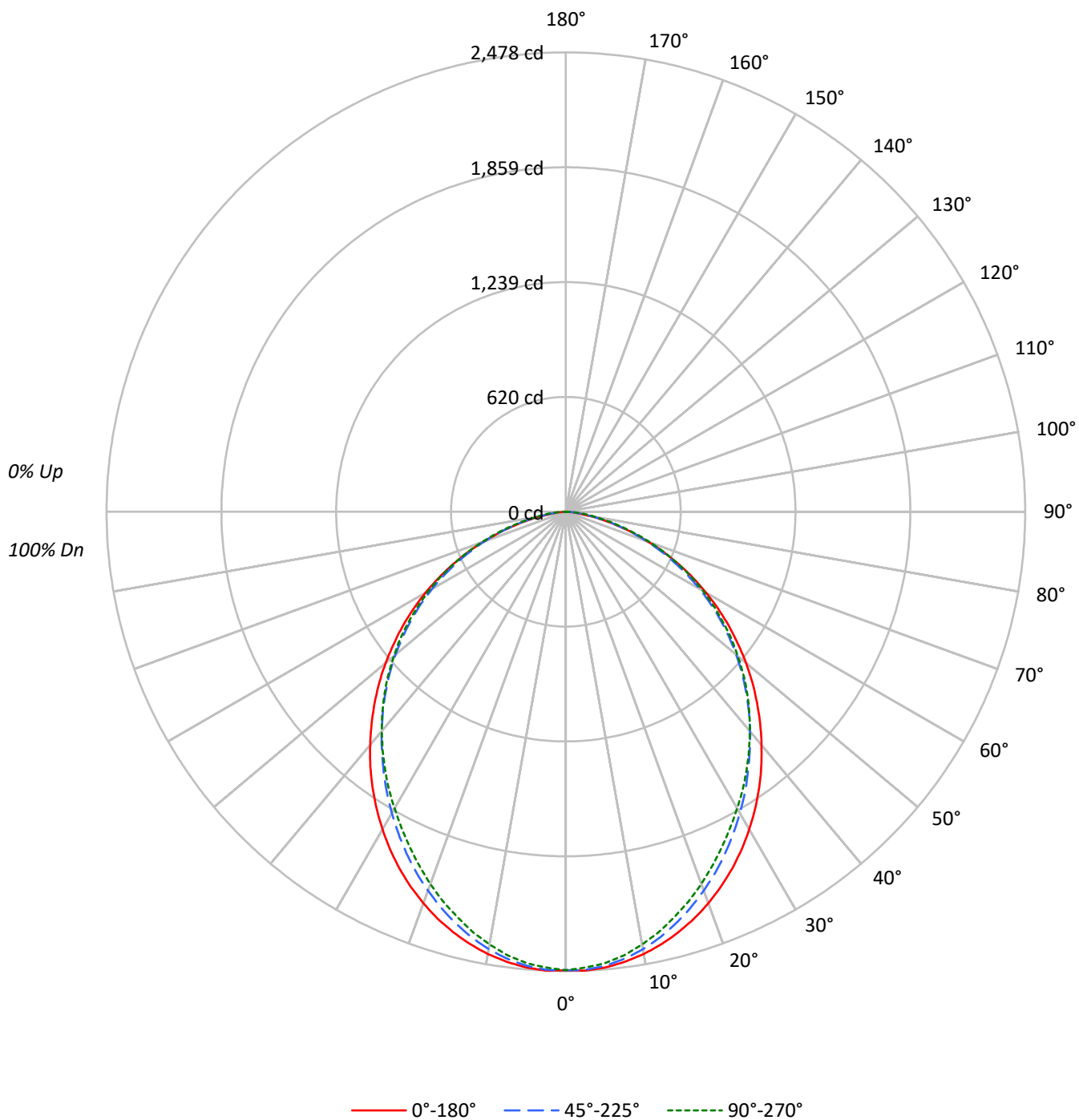
Lumens per Lamp: N/A
Luminaire Lumens: 5941.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67
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	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	56		64
5	78	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6655	6655	6655
5°	6664	6639	6601
10°	6619	6547	6476
15°	6540	6402	6304
20°	6437	6227	6118
25°	6304	6038	5921
30°	6148	5834	5741
35°	5972	5627	5583
40°	5769	5430	5425
45°	5551	5232	5262
50°	5312	5022	5068
55°	5035	4778	4851
60°	4704	4484	4603
65°	4290	4114	4268
70°	3718	3659	3819
75°	2977	3082	3224
80°	2042	2318	2528
85°	1081	1695	2251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5551 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	3.9
10°-20°	647.4	10.9
20°-30°	941.2	15.8
30°-40°	1085.3	18.3
40°-50°	1077.3	18.1
50°-60°	924.3	15.6
60°-70°	650.9	11.0
70°-80°	316.0	5.3
80°-90°	66.4	1.1
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°	1820.8	30.6
0°-40°	2906.1	48.9
0°-60°	4907.7	82.6
0°-90°	5941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2473	2473	2473	2473	2473	
5°	2467	2460	2458	2440	2444	234
15°	2348	2329	2298	2263	2263	662
25°	2123	2090	2033	1995	1994	977
35°	1818	1773	1713	1694	1700	1136
45°	1459	1415	1375	1376	1383	1125
55°	1073	1037	1018	1028	1034	958
65°	674	649	646	662	670	666
75°	286	277	296	306	310	308
85°	35	41	55	67	73	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2473.1	2473.1	2473.1	2473.1	2473.1
2.5°	2477.5	2472.1	2473.1	2459.0	2460.5
5°	2467.0	2460.0	2457.6	2439.6	2443.8
7.5°	2448.2	2439.0	2431.3	2409.9	2413.0
10°	2422.4	2409.8	2395.8	2368.8	2370.0
12.5°	2388.9	2373.5	2351.5	2319.6	2321.0
15°	2347.5	2329.1	2298.1	2262.9	2262.8
17.5°	2301.6	2280.1	2239.2	2201.1	2203.3
20°	2247.7	2222.7	2174.5	2135.1	2136.5
22.5°	2187.8	2158.6	2107.1	2067.1	2065.8
25°	2123.3	2090.1	2033.4	1995.2	1994.1
27.5°	2053.7	2016.5	1956.8	1920.7	1921.1
30°	1978.7	1938.8	1877.4	1846.1	1847.7
32.5°	1899.9	1857.9	1797.0	1771.8	1776.2
35°	1817.9	1773.0	1713.0	1694.5	1699.5
37.5°	1732.2	1687.7	1629.9	1618.0	1623.0
40°	1642.3	1598.8	1545.9	1538.4	1544.4
42.5°	1551.4	1508.5	1461.2	1458.4	1464.9
45°	1458.6	1415.4	1374.8	1375.7	1382.6
47.5°	1365.4	1322.9	1288.7	1292.3	1298.6
50°	1268.9	1228.6	1199.5	1205.7	1210.6
52.5°	1169.6	1132.1	1109.7	1117.8	1126.4
55°	1073.3	1036.7	1018.5	1027.8	1034.0
57.5°	973.5	941.6	927.2	937.2	944.4
60°	874.1	844.1	833.1	846.3	855.2
62.5°	773.5	745.8	740.0	754.8	763.3
65°	673.7	649.3	646.1	661.7	670.3
67.5°	574.1	552.5	555.2	574.2	579.4
70°	472.5	454.8	465.1	481.3	485.4
72.5°	377.8	362.9	378.3	392.1	394.5
75°	286.3	276.6	296.4	306.4	310.1
77.5°	203.2	200.5	217.8	227.8	232.2
80°	131.8	135.7	149.6	160.9	163.1
82.5°	75.2	81.0	94.0	109.1	115.0
85°	35.0	41.4	54.9	67.4	72.9
87.5°	11.8	16.4	23.3	25.5	24.4
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	17.52	19.10	17.88	19.41	19.73	17.45	19.04	17.82	19.35	19.67
	3H	19.00	20.42	19.37	20.75	21.11	19.04	20.47	19.42	20.79	21.15
	4H	19.43	20.77	19.83	21.12	21.50	19.54	20.88	19.94	21.23	21.61
	6H	19.65	20.89	20.06	21.26	21.65	19.85	21.09	20.26	21.45	21.84
	8H	19.69	20.87	20.11	21.26	21.66	19.93	21.12	20.36	21.50	21.90
	12H	19.69	20.82	20.12	21.20	21.63	19.99	21.12	20.42	21.51	21.93
4H	2H	18.04	19.38	18.44	19.73	20.10	17.99	19.33	18.39	19.68	20.05
	3H	19.70	20.82	20.11	21.22	21.62	19.77	20.88	20.18	21.28	21.68
	4H	20.23	21.23	20.66	21.65	22.08	20.38	21.39	20.81	21.80	22.24
	6H	20.53	21.40	20.98	21.85	22.30	20.78	21.66	21.24	22.10	22.56
	8H	20.58	21.40	21.04	21.84	22.31	20.90	21.72	21.36	22.16	22.63
	12H	20.60	21.33	21.08	21.81	22.28	20.99	21.73	21.47	22.20	22.67
8H	4H	20.44	21.25	20.90	21.70	22.16	20.57	21.39	21.04	21.83	22.30
	6H	20.80	21.48	21.30	21.97	22.44	21.06	21.73	21.55	22.22	22.70
	8H	20.88	21.49	21.40	22.00	22.48	21.22	21.83	21.74	22.34	22.82
	12H	20.93	21.46	21.44	21.95	22.52	21.37	21.91	21.88	22.40	22.96
12H	4H	20.44	21.18	20.93	21.65	22.12	20.58	21.31	21.06	21.78	22.25
	6H	20.82	21.42	21.33	21.93	22.42	21.06	21.67	21.57	22.18	22.66
	8H	20.94	21.47	21.45	21.96	22.53	21.27	21.81	21.78	22.30	22.86