

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: P1499283

Luminaire Tested: MAE-G-4-120-2LO-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499283
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-4-120-2LO-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

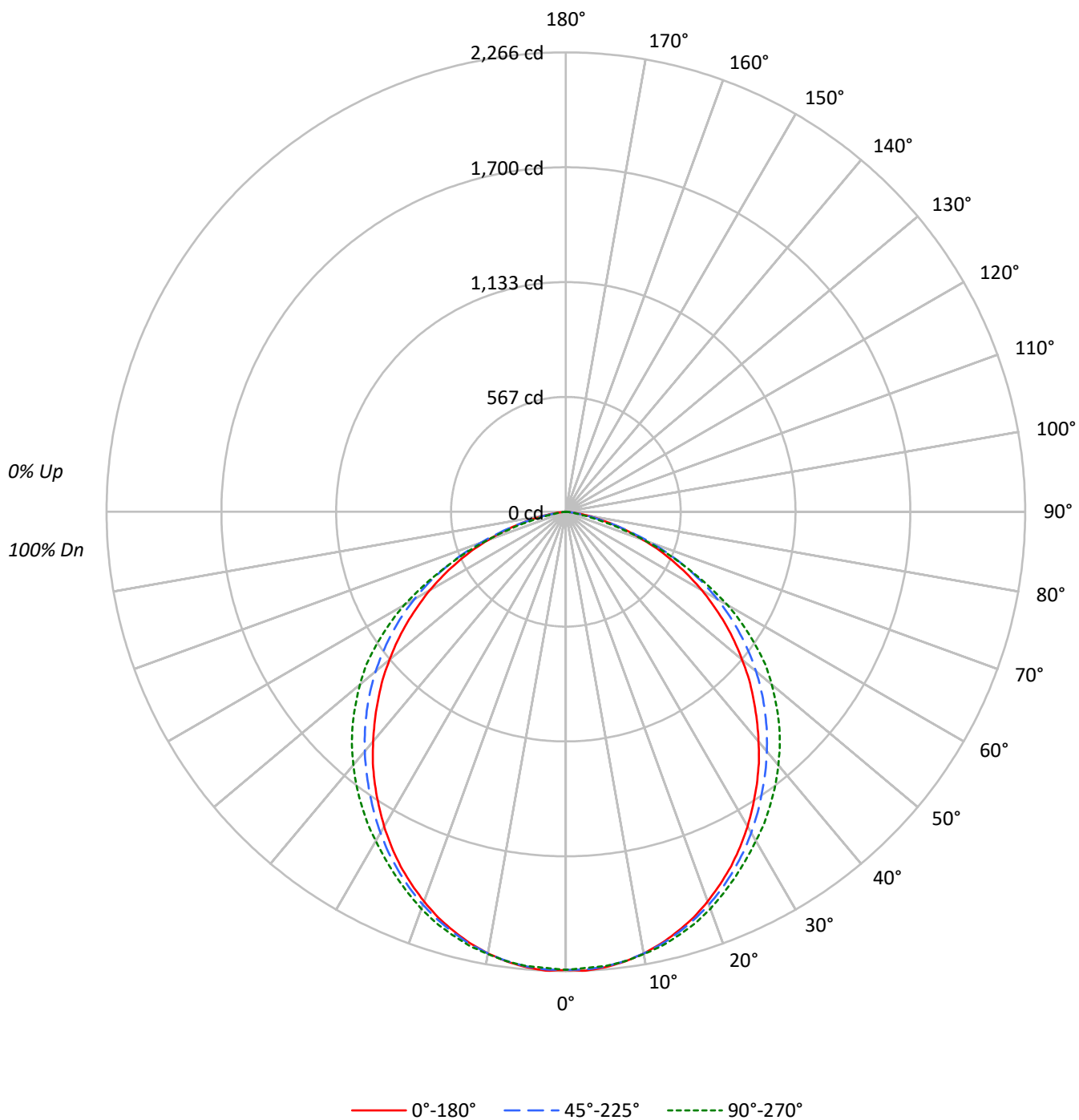
Lumens per Lamp: N/A
Luminaire Lumens: 5704.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62			
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46			
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41			
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36			
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3040	3040	3040
5°	3046	3041	3038
10°	3022	3022	3027
15°	2982	2993	3011
20°	2929	2953	2984
25°	2864	2901	2945
30°	2785	2842	2914
35°	2697	2773	2891
40°	2597	2710	2864
45°	2491	2643	2832
50°	2376	2563	2775
55°	2244	2460	2671
60°	2086	2323	2480
65°	1881	2110	2123
70°	1606	1757	1642
75°	1261	1272	1025
80°	820	655	393
85°	380	249	202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2832 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	3.7
10°-20°	605.3	10.6
20°-30°	899.2	15.8
30°-40°	1059.2	18.6
40°-50°	1073.0	18.8
50°-60°	934.0	16.4
60°-70°	636.4	11.2
70°-80°	254.4	4.5
80°-90°	29.1	0.5
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°	1717.9	30.1
0°-40°	2777.1	48.7
0°-60°	4784.1	83.9
0°-90°	5704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2255	2242	2251	2248	2249	214
15°	2141	2132	2148	2156	2161	603
25°	1929	1930	1954	1970	1984	888
35°	1642	1650	1688	1732	1760	1026
45°	1309	1325	1389	1454	1488	1010
55°	957	978	1049	1115	1139	855
65°	591	618	663	664	667	586
75°	242	257	245	210	197	261
85°	25	22	16	15	13	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2259.6	2259.6	2259.6	2259.6	2259.6
2.5°	2265.9	2251.3	2259.6	2258.1	2252.0
5°	2255.1	2242.0	2251.3	2248.3	2249.0
7.5°	2237.4	2225.2	2235.2	2234.4	2236.7
10°	2212.1	2199.9	2212.1	2212.8	2215.2
12.5°	2180.6	2169.9	2184.5	2187.6	2193.0
15°	2140.8	2131.6	2148.4	2156.2	2161.4
17.5°	2097.8	2091.7	2108.5	2118.5	2127.0
20°	2045.6	2042.6	2062.6	2072.4	2083.9
22.5°	1988.8	1987.3	2011.2	2023.4	2034.9
25°	1928.9	1929.8	1954.4	1970.5	1983.5
27.5°	1863.0	1864.5	1894.5	1913.7	1929.8
30°	1792.4	1796.3	1829.2	1855.3	1875.3
32.5°	1718.0	1724.9	1760.2	1796.3	1821.6
35°	1642.0	1649.8	1688.1	1732.5	1760.2
37.5°	1563.8	1572.3	1616.7	1668.9	1698.1
40°	1478.7	1491.6	1543.1	1600.6	1630.5
42.5°	1394.9	1409.5	1467.1	1530.1	1562.3
45°	1309.1	1325.2	1388.8	1454.1	1488.5
47.5°	1226.1	1239.9	1308.2	1376.6	1407.3
50°	1134.9	1153.2	1224.6	1293.0	1325.9
52.5°	1047.4	1065.0	1138.0	1207.7	1241.6
55°	956.8	977.5	1048.9	1114.9	1138.6
57.5°	865.6	889.3	958.4	1012.8	1033.5
60°	775.0	798.8	863.2	906.1	921.6
62.5°	683.6	708.2	765.0	791.1	794.2
65°	590.9	618.5	662.9	663.8	666.8
67.5°	502.7	525.6	557.8	548.6	544.0
70°	408.2	433.5	446.5	428.2	417.4
72.5°	324.6	342.9	340.7	313.7	300.9
75°	242.5	257.1	244.7	210.3	197.2
77.5°	168.1	180.3	155.7	123.5	110.6
80°	105.8	111.3	84.5	59.9	50.7
82.5°	56.8	56.0	36.1	29.8	27.6
85°	24.6	22.2	16.1	14.6	13.1
87.5°	8.5	7.6	6.1	5.4	4.6
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	14.78	16.36	15.14	16.68	16.99	15.74	17.32	16.11	17.64	17.95
	3H	16.20	17.62	16.58	17.95	18.31	16.93	18.35	17.31	18.68	19.04
	4H	16.59	17.93	16.99	18.27	18.65	17.15	18.48	17.54	18.83	19.20
	6H	16.77	18.00	17.18	18.36	18.76	17.16	18.39	17.57	18.76	19.15
	8H	16.78	17.95	17.21	18.34	18.74	17.14	18.31	17.56	18.70	19.10
	12H	16.77	17.89	17.20	18.28	18.70	17.11	18.24	17.54	18.62	19.05
4H	2H	15.44	16.77	15.84	17.12	17.50	16.21	17.55	16.61	17.89	18.27
	3H	17.02	18.12	17.43	18.52	18.92	17.56	18.67	17.97	19.07	19.47
	4H	17.49	18.49	17.93	18.90	19.34	17.83	18.82	18.26	19.24	19.68
	6H	17.73	18.60	18.19	19.04	19.50	17.88	18.74	18.34	19.19	19.64
	8H	17.76	18.56	18.22	19.00	19.47	17.86	18.66	18.32	19.11	19.57
	12H	17.76	18.47	18.24	18.95	19.42	17.84	18.56	18.32	19.03	19.50
8H	4H	17.63	18.43	18.09	18.88	19.34	17.95	18.75	18.41	19.19	19.66
	6H	17.91	18.57	18.40	19.06	19.53	18.01	18.67	18.50	19.16	19.63
	8H	17.94	18.54	18.46	19.04	19.53	17.98	18.57	18.50	19.08	19.57
	12H	17.96	18.48	18.47	18.97	19.53	17.97	18.49	18.48	18.98	19.54
12H	4H	17.61	18.33	18.09	18.81	19.28	17.94	18.65	18.42	19.13	19.60
	6H	17.88	18.47	18.39	18.98	19.46	17.98	18.57	18.50	19.08	19.57
	8H	17.94	18.46	18.45	18.95	19.52	17.98	18.50	18.49	19.00	19.56