

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: P1499379

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499379
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-4-120-2STD-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

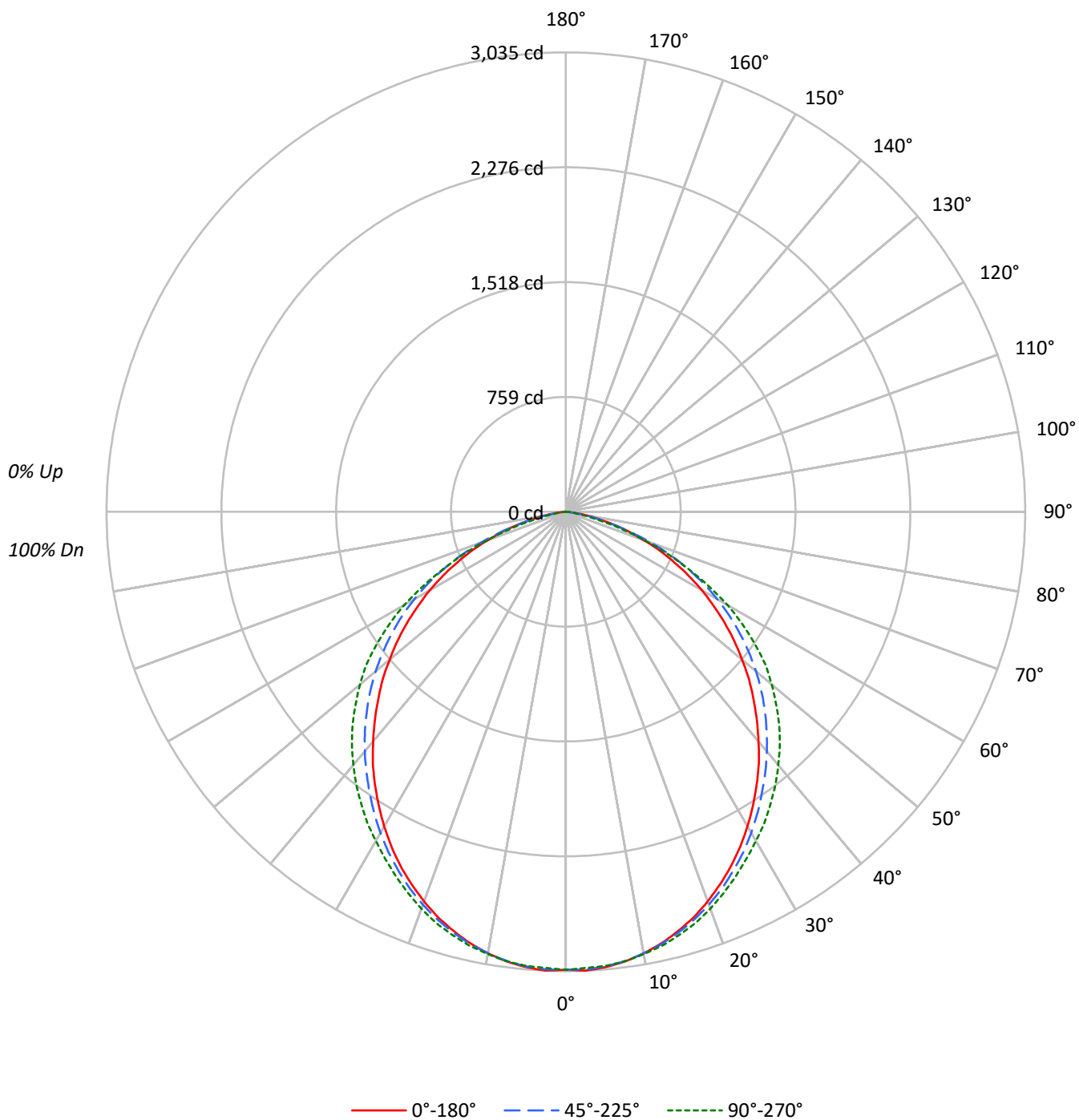
Lumens per Lamp: N/A
Luminaire Lumens: 7639.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4072	4072	4072
5°	4079	4072	4068
10°	4048	4048	4053
15°	3994	4008	4032
20°	3923	3955	3996
25°	3835	3886	3944
30°	3730	3806	3902
35°	3612	3713	3872
40°	3478	3630	3835
45°	3336	3539	3793
50°	3181	3433	3717
55°	3006	3295	3577
60°	2793	3111	3321
65°	2519	2826	2843
70°	2151	2353	2199
75°	1688	1704	1373
80°	1098	876	526
85°	508	333	270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3793 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	3.7
10°-20°	810.7	10.6
20°-30°	1204.3	15.8
30°-40°	1418.5	18.6
40°-50°	1437.0	18.8
50°-60°	1250.8	16.4
60°-70°	852.3	11.2
70°-80°	340.7	4.5
80°-90°	39.0	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°	2300.7	30.1
0°-40°	3719.2	48.7
0°-60°	6407.0	83.9
0°-90°	7639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3026	3026	3026	3026	3026	
5°	3020	3003	3015	3011	3012	286
15°	2867	2855	2877	2888	2895	808
25°	2583	2584	2617	2639	2656	1189
35°	2199	2210	2261	2320	2357	1374
45°	1753	1775	1860	1947	1994	1353
55°	1281	1309	1405	1493	1525	1145
65°	791	828	888	889	893	784
75°	325	344	328	282	264	350
85°	33	30	22	20	18	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3026.2	3026.2	3026.2	3026.2	3026.2
2.5°	3034.6	3015.1	3026.2	3024.1	3016.0
5°	3020.1	3002.6	3015.1	3011.0	3011.9
7.5°	2996.4	2980.1	2993.5	2992.3	2995.5
10°	2962.6	2946.2	2962.6	2963.5	2966.7
12.5°	2920.3	2906.0	2925.6	2929.7	2936.9
15°	2867.0	2854.7	2877.2	2887.6	2894.7
17.5°	2809.5	2801.3	2823.8	2837.2	2848.6
20°	2739.6	2735.5	2762.3	2775.4	2790.9
22.5°	2663.5	2661.4	2693.4	2709.8	2725.2
25°	2583.3	2584.4	2617.4	2638.9	2656.4
27.5°	2494.9	2497.0	2537.2	2562.9	2584.4
30°	2400.5	2405.7	2449.7	2484.7	2511.5
32.5°	2300.8	2310.1	2357.3	2405.7	2439.5
35°	2199.0	2209.5	2260.8	2320.3	2357.3
37.5°	2094.3	2105.7	2165.2	2235.1	2274.2
40°	1980.3	1997.5	2066.6	2143.6	2183.6
42.5°	1868.1	1887.6	1964.8	2049.1	2092.3
45°	1753.2	1774.7	1859.9	1947.4	1993.5
47.5°	1642.1	1660.5	1752.0	1843.6	1884.7
50°	1519.9	1544.4	1640.1	1731.6	1775.6
52.5°	1402.7	1426.3	1524.0	1617.3	1662.8
55°	1281.4	1309.1	1404.8	1493.1	1524.9
57.5°	1159.2	1191.0	1283.5	1356.4	1384.1
60°	1038.0	1069.7	1156.1	1213.5	1234.2
62.5°	915.5	948.5	1024.6	1059.5	1063.6
65°	791.3	828.3	887.8	889.0	893.0
67.5°	673.2	703.9	747.0	734.7	728.6
70°	546.7	580.5	598.0	573.5	558.9
72.5°	434.7	459.2	456.3	420.2	402.9
75°	324.8	344.3	327.7	281.6	264.1
77.5°	225.1	241.4	208.5	165.3	148.1
80°	141.7	149.0	113.1	80.2	67.9
82.5°	76.1	75.0	48.4	40.0	37.0
85°	32.9	29.8	21.6	19.5	17.5
87.5°	11.4	10.2	8.2	7.3	6.1
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	15.79	17.38	16.16	17.69	18.00	16.76	18.34	17.12	18.65	18.97
	3H	17.22	18.64	17.59	18.96	19.32	17.94	19.37	18.32	19.69	20.05
	4H	17.61	18.94	18.01	19.29	19.67	18.16	19.49	18.56	19.84	20.22
	6H	17.78	19.01	18.19	19.38	19.77	18.18	19.41	18.59	19.77	20.17
	8H	17.80	18.97	18.22	19.36	19.76	18.15	19.33	18.58	19.72	20.12
	12H	17.79	18.91	18.22	19.29	19.72	18.13	19.25	18.56	19.63	20.06
4H	2H	16.46	17.79	16.85	18.14	18.51	17.23	18.56	17.63	18.91	19.29
	3H	18.03	19.14	18.44	19.54	19.94	18.58	19.68	18.99	20.08	20.48
	4H	18.51	19.50	18.94	19.92	20.35	18.85	19.84	19.28	20.25	20.69
	6H	18.75	19.61	19.20	20.05	20.51	18.90	19.76	19.35	20.20	20.66
	8H	18.77	19.57	19.23	20.02	20.48	18.87	19.68	19.34	20.12	20.59
	12H	18.77	19.49	19.25	19.96	20.44	18.85	19.57	19.33	20.05	20.52
8H	4H	18.65	19.45	19.11	19.89	20.36	18.96	19.76	19.42	20.21	20.67
	6H	18.92	19.58	19.42	20.07	20.55	19.02	19.68	19.52	20.17	20.65
	8H	18.96	19.55	19.47	20.06	20.55	19.00	19.59	19.51	20.10	20.59
	12H	18.97	19.49	19.48	19.98	20.55	18.98	19.50	19.49	19.99	20.56
12H	4H	18.63	19.34	19.11	19.82	20.29	18.95	19.67	19.43	20.15	20.62
	6H	18.89	19.48	19.40	19.99	20.48	19.00	19.59	19.51	20.10	20.59
	8H	18.95	19.47	19.46	19.97	20.53	19.00	19.52	19.51	20.01	20.57