

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: P1498863

Luminaire Tested: MAE-G-2-120-3STD-LO-50

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3STD-LO-50
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

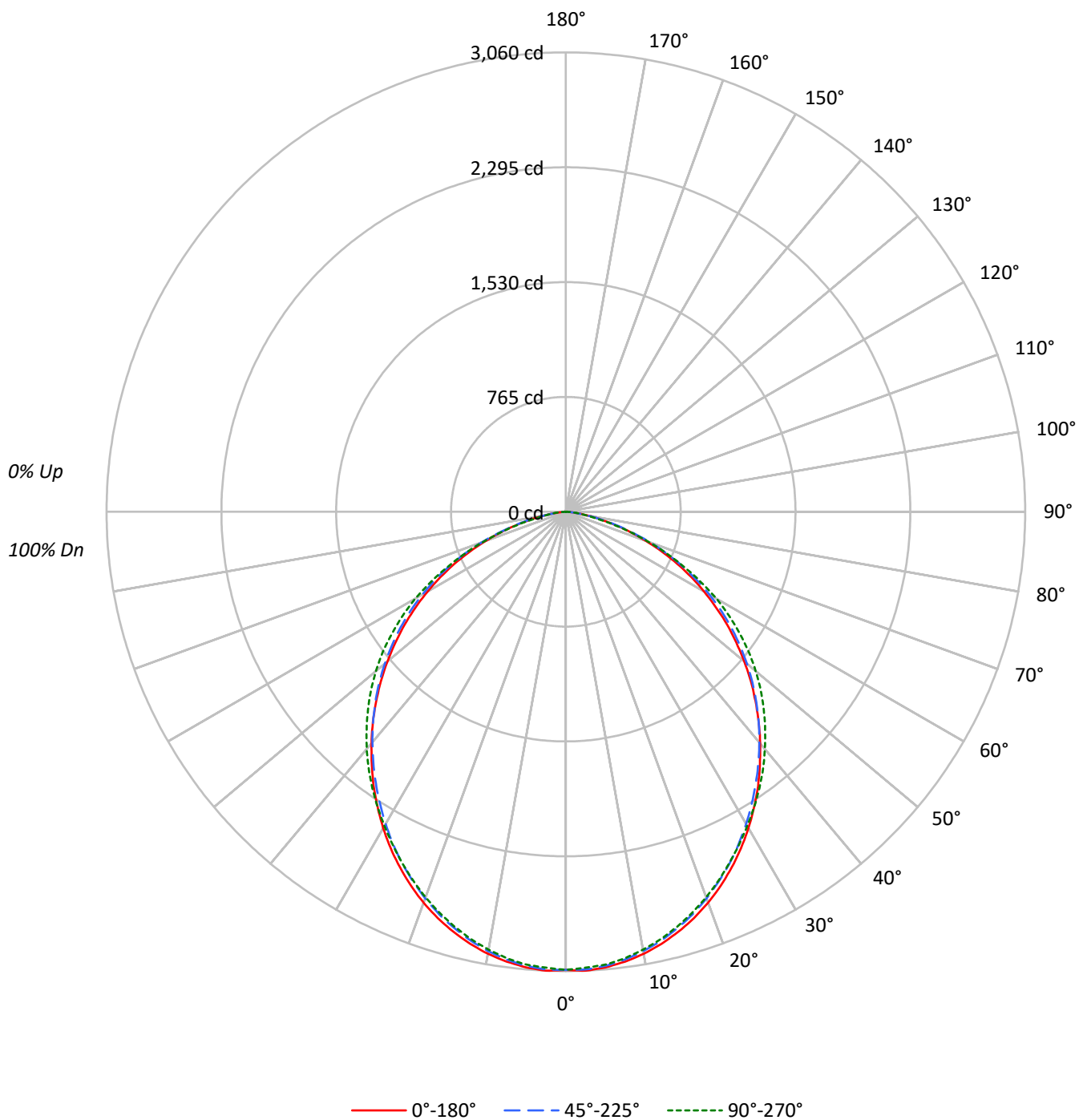
Lumens per Lamp: N/A
Luminaire Lumens: 7544.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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	98	107	103	99	96	99	96	93		95	93	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	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	44	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	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8212	8212	8212
5°	8228	8203	8179
10°	8170	8123	8092
15°	8070	8000	7972
20°	7937	7848	7825
25°	7762	7668	7662
30°	7561	7461	7510
35°	7334	7250	7384
40°	7077	7043	7247
45°	6799	6831	7094
50°	6495	6589	6912
55°	6153	6306	6631
60°	5728	5941	6241
65°	5198	5438	5543
70°	4472	4699	4617
75°	3546	3685	3361
80°	2376	2338	2078
85°	1210	1402	1658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7094 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	3.8
10°-20°	809.1	10.7
20°-30°	1190.5	15.8
30°-40°	1388.6	18.4
40°-50°	1394.2	18.5
50°-60°	1206.4	16.0
60°-70°	837.2	11.1
70°-80°	369.7	4.9
80°-90°	61.0	0.8
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°	2287.0	30.3
0°-40°	3675.6	48.7
0°-60°	6276.2	83.2
0°-90°	7544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3052	3052	3052	3052	3052	
5°	3046	3032	3037	3024	3028	289
15°	2897	2879	2872	2856	2862	816
25°	2614	2594	2582	2568	2580	1204
35°	2232	2210	2207	2223	2248	1395
45°	1786	1773	1795	1838	1864	1378
55°	1312	1303	1344	1396	1413	1171
65°	816	820	854	868	871	807
75°	341	347	354	336	323	366
85°	39	41	45	51	54	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3051.8	3051.8	3051.8	3051.8	3051.8
2.5°	3059.8	3046.1	3051.8	3042.2	3039.2
5°	3046.0	3032.1	3036.7	3024.2	3028.0
7.5°	3022.3	3008.0	3009.6	2996.5	3000.2
10°	2990.0	2973.6	2972.9	2958.4	2961.5
12.5°	2947.2	2930.8	2927.0	2910.9	2916.3
15°	2896.8	2879.2	2871.5	2856.5	2861.6
17.5°	2838.5	2819.6	2810.5	2792.8	2800.8
20°	2771.6	2751.7	2740.7	2721.7	2732.6
22.5°	2696.7	2676.4	2663.2	2647.2	2658.4
25°	2614.1	2594.3	2582.5	2568.5	2580.4
27.5°	2527.3	2505.3	2494.2	2486.2	2499.3
30°	2433.4	2411.0	2401.3	2398.7	2416.9
32.5°	2334.1	2312.7	2305.5	2312.6	2333.4
35°	2232.4	2210.0	2206.8	2223.4	2247.6
37.5°	2122.9	2105.4	2107.2	2133.4	2158.0
40°	2014.6	1996.2	2005.0	2037.5	2063.1
42.5°	1902.6	1887.2	1901.2	1941.0	1965.2
45°	1786.5	1773.0	1795.0	1837.9	1864.2
47.5°	1672.9	1658.5	1686.4	1732.7	1760.8
50°	1551.4	1541.1	1573.9	1624.8	1651.1
52.5°	1431.5	1421.5	1459.8	1513.0	1538.0
55°	1311.5	1303.3	1344.2	1395.5	1413.4
57.5°	1187.6	1185.5	1226.7	1271.2	1289.4
60°	1064.3	1063.1	1103.8	1143.9	1159.6
62.5°	940.9	942.7	980.4	1011.4	1015.6
65°	816.4	819.8	854.0	868.4	870.6
67.5°	690.8	697.2	726.9	731.7	730.1
70°	568.4	572.7	597.3	595.4	586.8
72.5°	449.3	456.4	470.1	461.8	449.1
75°	341.1	346.9	354.4	335.7	323.3
77.5°	240.3	244.4	244.7	224.8	216.4
80°	153.3	158.2	150.9	139.7	134.1
82.5°	85.3	89.5	83.2	87.6	89.7
85°	39.2	41.1	45.4	51.4	53.7
87.5°	13.4	15.4	18.5	19.5	18.1
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	18.25	19.83	18.61	20.14	20.46	18.75	20.33	19.11	20.65	20.96
	3H	19.69	21.11	20.07	21.44	21.80	20.12	21.55	20.50	21.87	22.24
	4H	20.10	21.44	20.50	21.79	22.16	20.46	21.80	20.86	22.15	22.53
	6H	20.30	21.53	20.71	21.90	22.29	20.59	21.83	21.00	22.19	22.58
	8H	20.32	21.50	20.75	21.89	22.29	20.61	21.78	21.03	22.17	22.57
	12H	20.32	21.45	20.75	21.83	22.26	20.61	21.74	21.04	22.12	22.55
4H	2H	18.85	20.18	19.25	20.53	20.91	19.25	20.59	19.65	20.94	21.31
	3H	20.46	21.57	20.87	21.97	22.37	20.81	21.92	21.22	22.32	22.72
	4H	20.96	21.96	21.39	22.37	22.81	21.23	22.23	21.66	22.64	23.08
	6H	21.23	22.10	21.68	22.54	23.00	21.42	22.29	21.87	22.73	23.19
	8H	21.26	22.08	21.73	22.52	22.98	21.45	22.26	21.91	22.70	23.17
	12H	21.27	22.00	21.75	22.48	22.95	21.47	22.19	21.95	22.67	23.14
8H	4H	21.14	21.95	21.60	22.39	22.86	21.38	22.19	21.84	22.64	23.10
	6H	21.45	22.12	21.95	22.61	23.09	21.61	22.28	22.11	22.77	23.25
	8H	21.51	22.11	22.03	22.62	23.11	21.66	22.26	22.17	22.77	23.26
	12H	21.54	22.07	22.05	22.56	23.13	21.71	22.24	22.22	22.73	23.29
12H	4H	21.13	21.85	21.61	22.33	22.80	21.38	22.10	21.86	22.58	23.05
	6H	21.44	22.04	21.95	22.55	23.04	21.60	22.20	22.11	22.71	23.20
	8H	21.53	22.06	22.04	22.55	23.12	21.68	22.21	22.19	22.70	23.27