

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: P1498740

Luminaire Tested: MAE-G-2-120-3LO-HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498740
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-2-120-3LO-HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

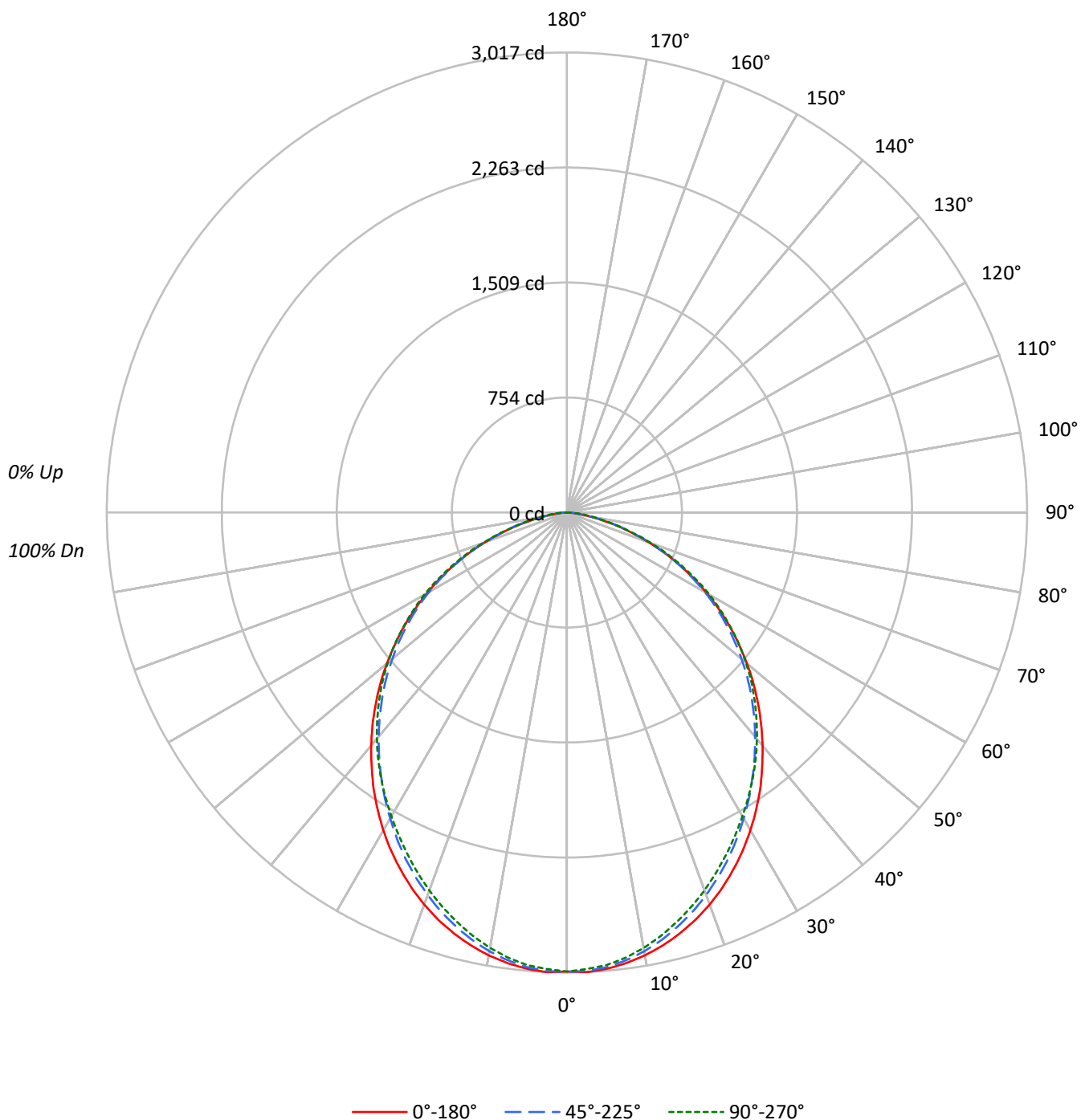
Lumens per Lamp: N/A
Luminaire Lumens: 7316.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 79.2
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	92	90		91
2	100	92	86	80	98	90	85	79	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	56		66	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	41	35	61	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	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8101	8101	8101
5°	8114	8084	8048
10°	8059	7985	7921
15°	7964	7831	7747
20°	7837	7644	7551
25°	7669	7434	7343
30°	7477	7201	7149
35°	7259	6969	6981
40°	7012	6742	6809
45°	6743	6513	6623
50°	6448	6260	6412
55°	6114	5972	6141
60°	5702	5614	5818
65°	5193	5153	5308
70°	4489	4545	4633
75°	3583	3736	3705
80°	2439	2650	2710
85°	1284	1831	2353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.0	3.9
10°-20°	791.9	10.8
20°-30°	1156.7	15.8
30°-40°	1339.6	18.3
40°-50°	1335.8	18.3
50°-60°	1150.1	15.7
60°-70°	806.4	11.0
70°-80°	378.7	5.2
80°-90°	73.7	1.0
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°	2231.6	30.5
0°-40°	3571.3	48.8
0°-60°	6057.1	82.8
0°-90°	7316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3010	3010	3010	3010	3010	
5°	3004	2993	2993	2975	2980	285
15°	2858	2838	2811	2778	2781	806
25°	2583	2550	2504	2468	2473	1189
35°	2210	2167	2121	2112	2125	1381
45°	1772	1734	1711	1726	1740	1367
55°	1303	1272	1273	1299	1309	1163
65°	816	797	809	828	834	806
75°	345	340	359	360	356	370
85°	42	47	59	71	76	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3010.4	3010.4	3010.4	3010.4	3010.4
2.5°	3016.9	3007.8	3010.4	2996.0	2996.1
5°	3003.8	2993.3	2992.8	2974.6	2979.5
7.5°	2980.7	2968.3	2962.7	2941.6	2945.3
10°	2949.4	2933.7	2922.2	2896.7	2899.0
12.5°	2907.8	2890.1	2871.5	2841.2	2844.7
15°	2858.5	2837.9	2810.8	2778.4	2780.8
17.5°	2801.7	2777.5	2744.1	2707.4	2712.4
20°	2736.6	2709.0	2669.3	2631.0	2636.8
22.5°	2663.4	2632.9	2588.7	2551.7	2556.4
25°	2582.9	2550.0	2503.8	2468.3	2473.0
27.5°	2498.2	2461.3	2412.5	2381.8	2387.4
30°	2406.4	2367.1	2317.6	2291.7	2300.8
32.5°	2309.6	2269.1	2221.1	2203.1	2214.1
35°	2209.8	2166.6	2121.3	2111.8	2125.0
37.5°	2102.6	2063.1	2021.1	2020.1	2033.4
40°	1996.1	1955.1	1919.2	1923.8	1938.2
42.5°	1885.6	1847.0	1816.3	1827.5	1840.4
45°	1771.8	1733.9	1711.3	1726.1	1740.3
47.5°	1658.8	1621.3	1605.2	1623.2	1639.4
50°	1540.3	1505.9	1495.3	1518.2	1531.7
52.5°	1420.6	1388.0	1384.8	1410.2	1424.3
55°	1303.2	1271.6	1273.0	1298.7	1308.9
57.5°	1181.1	1156.0	1160.2	1184.3	1196.2
60°	1059.5	1036.1	1043.2	1068.6	1081.0
62.5°	937.6	917.3	927.0	951.1	958.1
65°	815.6	797.4	809.3	828.2	833.7
67.5°	691.5	678.4	693.4	709.7	712.6
70°	570.5	557.3	577.7	590.0	588.8
72.5°	452.8	445.1	464.2	472.8	468.1
75°	344.6	339.6	359.3	360.1	356.3
77.5°	244.3	242.5	258.8	258.1	257.7
80°	157.4	161.8	171.0	175.4	174.9
82.5°	89.1	95.6	103.3	116.5	121.9
85°	41.6	47.2	59.3	71.0	76.2
87.5°	14.1	18.3	24.8	27.0	25.5
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	18.20	19.79	18.57	20.10	20.41	18.36	19.94	18.72	20.26	20.57
	3H	19.67	21.09	20.04	21.42	21.78	19.87	21.29	20.24	21.62	21.98
	4H	20.09	21.43	20.49	21.78	22.16	20.31	21.65	20.71	22.00	22.37
	6H	20.31	21.54	20.72	21.91	22.30	20.54	21.78	20.95	22.14	22.54
	8H	20.33	21.51	20.76	21.90	22.30	20.60	21.78	21.02	22.17	22.57
	12H	20.33	21.46	20.76	21.85	22.28	20.63	21.76	21.06	22.15	22.57
4H	2H	18.76	20.09	19.15	20.44	20.82	18.88	20.22	19.28	20.57	20.95
	3H	20.40	21.51	20.81	21.91	22.31	20.58	21.70	20.99	22.10	22.50
	4H	20.91	21.92	21.34	22.33	22.77	21.12	22.12	21.55	22.54	22.98
	6H	21.20	22.08	21.66	22.52	22.97	21.44	22.31	21.89	22.75	23.21
	8H	21.25	22.06	21.71	22.51	22.97	21.52	22.34	21.98	22.78	23.25
	12H	21.26	21.99	21.75	22.47	22.94	21.58	22.31	22.06	22.79	23.26
8H	4H	21.11	21.93	21.57	22.37	22.84	21.30	22.12	21.76	22.56	23.03
	6H	21.46	22.13	21.96	22.62	23.10	21.68	22.36	22.18	22.85	23.32
	8H	21.54	22.14	22.05	22.65	23.13	21.80	22.41	22.32	22.92	23.40
	12H	21.58	22.11	22.08	22.60	23.16	21.91	22.44	22.42	22.93	23.50
12H	4H	21.12	21.84	21.60	22.32	22.79	21.30	22.03	21.78	22.51	22.98
	6H	21.47	22.07	21.98	22.58	23.06	21.68	22.29	22.19	22.79	23.28
	8H	21.58	22.11	22.08	22.60	23.16	21.84	22.37	22.35	22.87	23.43