

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: P1499052

Luminaire Tested: MAE-G-4-120-1LO-LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1LO-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

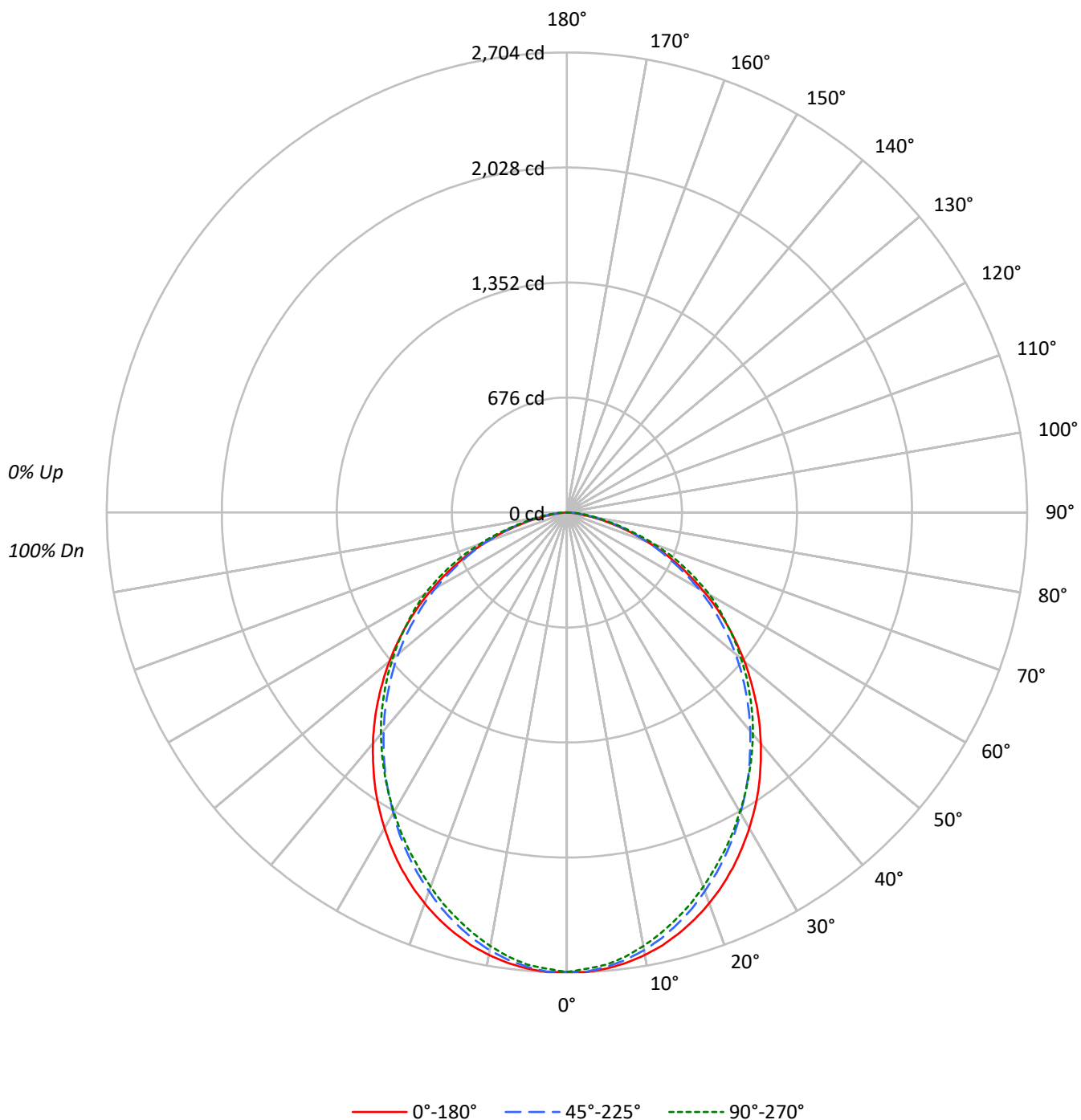
Lumens per Lamp: N/A
Luminaire Lumens: 6462.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.2
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	82	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3633	3633	3633
5°	3635	3621	3603
10°	3608	3569	3535
15°	3563	3489	3448
20°	3500	3392	3352
25°	3422	3287	3254
30°	3329	3170	3158
35°	3230	3059	3069
40°	3115	2943	2986
45°	2987	2828	2894
50°	2851	2705	2798
55°	2693	2562	2697
60°	2499	2397	2608
65°	2274	2185	2424
70°	1974	1964	2161
75°	1575	1671	1774
80°	1090	1291	1407
85°	608	983	1280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2987 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	3.9
10°-20°	706.6	10.9
20°-30°	1026.5	15.9
30°-40°	1181.3	18.3
40°-50°	1169.2	18.1
50°-60°	1001.1	15.5
60°-70°	706.1	10.9
70°-80°	343.0	5.3
80°-90°	74.7	1.2
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°	1986.5	30.7
0°-40°	3167.8	49.0
0°-60°	5338.2	82.6
0°-90°	6462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2700	2700	2700	2700	2700	
5°	2691	2689	2681	2662	2668	255
15°	2558	2544	2505	2472	2475	721
25°	2305	2272	2214	2186	2192	1061
35°	1966	1920	1862	1856	1868	1228
45°	1570	1528	1486	1504	1521	1211
55°	1148	1109	1092	1125	1150	1025
65°	714	684	686	738	761	707
75°	303	290	322	341	341	327
85°	39	48	64	77	83	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2700.3	2700.3	2700.3	2700.3	2700.3
2.5°	2703.5	2705.7	2700.3	2680.1	2683.6
5°	2691.0	2688.8	2680.7	2661.8	2667.7
7.5°	2669.5	2665.8	2651.4	2629.0	2632.8
10°	2641.1	2633.7	2612.1	2584.1	2587.5
12.5°	2604.1	2594.2	2563.9	2532.1	2535.6
15°	2557.8	2543.6	2505.0	2471.6	2475.2
17.5°	2504.7	2488.4	2441.8	2405.6	2413.2
20°	2444.5	2422.5	2369.0	2334.6	2341.2
22.5°	2378.4	2350.6	2294.5	2261.2	2266.5
25°	2305.3	2271.8	2214.0	2185.7	2192.0
27.5°	2226.7	2189.8	2130.4	2104.5	2114.0
30°	2142.9	2103.0	2040.2	2022.3	2032.7
32.5°	2056.7	2014.4	1952.4	1940.9	1951.4
35°	1966.2	1920.1	1862.4	1855.5	1868.5
37.5°	1869.3	1825.0	1768.0	1772.5	1784.8
40°	1773.5	1727.6	1675.5	1685.3	1700.1
42.5°	1673.7	1629.5	1581.9	1595.7	1612.9
45°	1569.9	1527.6	1486.0	1504.3	1520.8
47.5°	1465.6	1423.7	1390.0	1411.4	1431.0
50°	1362.0	1321.9	1292.4	1318.3	1336.7
52.5°	1253.4	1215.1	1194.0	1221.4	1245.0
55°	1148.1	1109.2	1092.2	1124.7	1149.8
57.5°	1039.2	1007.3	992.6	1031.0	1062.1
60°	928.7	897.2	890.9	939.4	969.0
62.5°	820.7	789.8	787.1	843.8	865.0
65°	714.4	683.9	686.2	738.5	761.4
67.5°	609.0	581.0	593.9	644.0	659.3
70°	501.7	476.7	499.2	541.6	549.2
72.5°	400.9	379.9	410.4	440.0	441.9
75°	302.9	290.0	321.5	341.1	341.3
77.5°	216.8	210.1	239.1	252.4	253.3
80°	140.7	143.7	166.6	177.1	181.6
82.5°	81.9	89.2	107.2	124.9	129.5
85°	39.4	48.1	63.7	77.4	82.9
87.5°	13.7	19.5	26.6	29.5	28.7
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	15.28	16.86	15.65	17.18	17.49	15.45	17.03	15.82	17.35	17.66
	3H	16.73	18.15	17.11	18.48	18.84	17.09	18.52	17.47	18.85	19.21
	4H	17.16	18.50	17.56	18.84	19.22	17.60	18.93	18.00	19.28	19.66
	6H	17.38	18.62	17.79	18.98	19.37	17.89	19.13	18.30	19.50	19.89
	8H	17.41	18.59	17.84	18.98	19.38	17.98	19.16	18.40	19.55	19.95
	12H	17.42	18.55	17.85	18.93	19.36	18.04	19.17	18.47	19.55	19.98
4H	2H	15.79	17.13	16.19	17.48	17.86	15.93	17.27	16.33	17.62	18.00
	3H	17.43	18.55	17.84	18.94	19.34	17.78	18.90	18.19	19.30	19.70
	4H	17.94	18.95	18.38	19.36	19.80	18.40	19.40	18.83	19.82	20.25
	6H	18.24	19.12	18.70	19.56	20.02	18.80	19.67	19.25	20.11	20.57
	8H	18.30	19.12	18.76	19.56	20.03	18.92	19.74	19.38	20.18	20.64
	12H	18.32	19.05	18.80	19.53	20.00	19.02	19.75	19.50	20.22	20.69
8H	4H	18.17	18.98	18.63	19.43	19.89	18.58	19.40	19.04	19.84	20.30
	6H	18.54	19.21	19.03	19.70	20.18	19.06	19.73	19.55	20.22	20.70
	8H	18.62	19.23	19.13	19.74	20.22	19.23	19.84	19.75	20.35	20.83
	12H	18.68	19.21	19.18	19.70	20.26	19.39	19.93	19.90	20.42	20.98
12H	4H	18.18	18.91	18.66	19.39	19.86	18.58	19.31	19.06	19.79	20.26
	6H	18.56	19.16	19.07	19.67	20.16	19.06	19.67	19.57	20.18	20.66
	8H	18.68	19.22	19.19	19.71	20.27	19.28	19.82	19.79	20.31	20.87