

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: P1498856

Luminaire Tested: MAE-G-2-120-3STD-LO-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498856
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-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

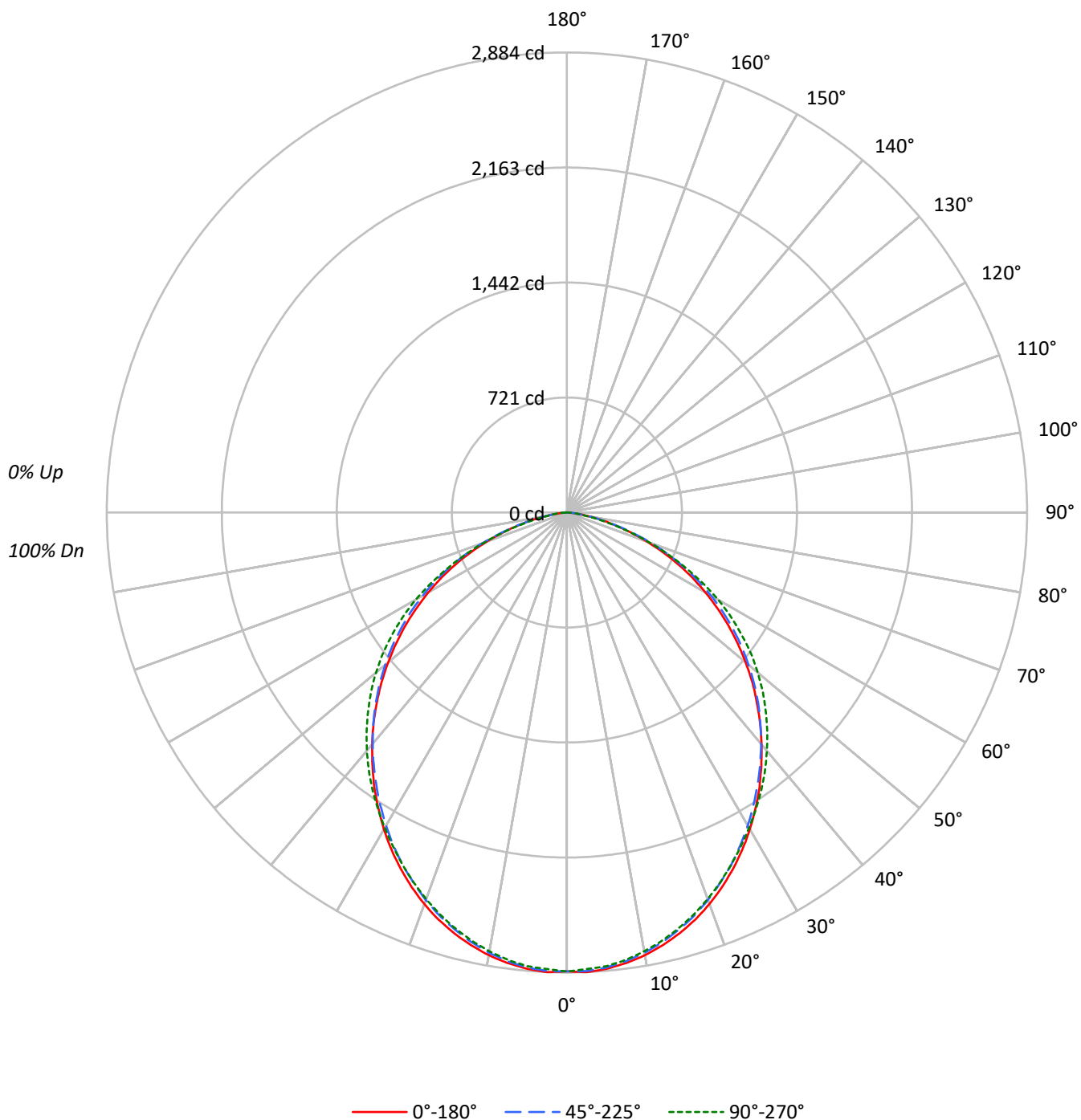
Lumens per Lamp: N/A
Luminaire Lumens: 7118.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	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	40		
7	67	53	45	39	65	53	44	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	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7741	7741	7741
5°	7756	7733	7711
10°	7702	7659	7631
15°	7607	7544	7521
20°	7481	7403	7385
25°	7315	7235	7233
30°	7126	7042	7093
35°	6912	6843	6976
40°	6669	6650	6850
45°	6407	6451	6708
50°	6120	6224	6537
55°	5797	5958	6272
60°	5396	5613	5901
65°	4897	5137	5234
70°	4211	4434	4348
75°	3339	3467	3147
80°	2235	2187	1925
85°	1133	1297	1525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6708 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	3.8
10°-20°	763.0	10.7
20°-30°	1123.1	15.8
30°-40°	1310.6	18.4
40°-50°	1316.3	18.5
50°-60°	1139.4	16.0
60°-70°	790.2	11.1
70°-80°	347.7	4.9
80°-90°	56.8	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°	2157.1	30.3
0°-40°	3467.7	48.7
0°-60°	5923.3	83.2
0°-90°	7118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2877	2877	2877	2877	2877	
5°	2871	2858	2863	2851	2855	272
15°	2731	2714	2708	2695	2700	769
25°	2464	2446	2437	2425	2436	1134
35°	2104	2084	2083	2100	2124	1314
45°	1684	1672	1695	1737	1763	1299
55°	1236	1229	1270	1320	1337	1103
65°	769	773	807	820	822	760
75°	321	327	334	315	303	345
85°	37	38	42	47	49	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2876.8	2876.8	2876.8	2876.8	2876.8
2.5°	2884.4	2871.2	2876.8	2868.0	2865.0
5°	2871.2	2858.0	2862.6	2851.1	2854.7
7.5°	2848.9	2835.3	2837.3	2825.3	2828.8
10°	2818.5	2803.1	2802.9	2789.9	2792.8
12.5°	2778.0	2762.7	2760.0	2745.5	2750.7
15°	2730.6	2714.2	2707.9	2694.8	2699.7
17.5°	2675.7	2658.1	2650.8	2635.1	2642.9
20°	2612.4	2594.2	2585.3	2568.5	2578.9
22.5°	2541.8	2523.2	2512.6	2498.5	2509.5
25°	2463.8	2446.0	2436.7	2424.7	2436.2
27.5°	2382.0	2362.2	2353.8	2347.4	2360.1
30°	2293.4	2273.3	2266.2	2265.2	2282.7
32.5°	2199.8	2180.8	2176.2	2184.2	2204.3
35°	2104.0	2084.0	2083.1	2100.3	2123.6
37.5°	2000.7	1985.3	1989.4	2015.5	2039.3
40°	1898.6	1882.5	1893.2	1925.1	1950.0
42.5°	1793.0	1779.7	1795.3	1834.4	1857.8
45°	1683.5	1672.1	1695.2	1737.1	1762.6
47.5°	1576.4	1564.1	1592.8	1638.0	1665.0
50°	1461.9	1453.5	1486.7	1536.1	1561.5
52.5°	1348.8	1340.7	1379.0	1430.7	1454.8
55°	1235.7	1229.2	1269.9	1319.7	1336.9
57.5°	1118.9	1118.2	1159.1	1202.1	1219.6
60°	1002.7	1002.9	1043.0	1081.5	1096.5
62.5°	886.4	889.3	926.4	956.0	959.8
65°	769.1	773.4	806.8	820.1	822.0
67.5°	650.6	657.7	686.4	690.4	688.6
70°	535.2	540.3	563.6	561.2	552.6
72.5°	423.1	430.5	443.1	434.4	421.9
75°	321.1	327.2	333.5	314.9	302.7
77.5°	226.1	230.3	229.7	209.9	201.5
80°	144.2	148.9	141.1	129.7	124.2
82.5°	80.1	84.0	77.3	80.9	82.8
85°	36.7	38.4	42.0	47.3	49.4
87.5°	12.5	14.3	17.0	18.0	16.6
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	18.04	19.62	18.41	19.94	20.25	18.56	20.15	18.93	20.46	20.77
	3H	19.48	20.91	19.86	21.23	21.59	19.93	21.35	20.31	21.68	22.04
	4H	19.89	21.23	20.29	21.58	21.96	20.27	21.60	20.66	21.95	22.33
	6H	20.09	21.33	20.50	21.69	22.08	20.39	21.62	20.80	21.99	22.38
	8H	20.11	21.29	20.54	21.68	22.08	20.40	21.58	20.83	21.97	22.37
	12H	20.11	21.24	20.54	21.62	22.05	20.40	21.53	20.83	21.91	22.34
4H	2H	18.64	19.98	19.04	20.33	20.71	19.07	20.40	19.46	20.75	21.13
	3H	20.25	21.37	20.66	21.76	22.16	20.61	21.72	21.02	22.12	22.52
	4H	20.75	21.75	21.19	22.17	22.60	21.03	22.03	21.46	22.44	22.88
	6H	21.02	21.89	21.48	22.33	22.79	21.21	22.08	21.67	22.52	22.98
	8H	21.06	21.87	21.52	22.31	22.78	21.24	22.05	21.70	22.49	22.96
	12H	21.07	21.79	21.55	22.27	22.74	21.25	21.98	21.74	22.46	22.93
8H	4H	20.93	21.74	21.39	22.18	22.65	21.18	21.99	21.64	22.43	22.90
	6H	21.24	21.91	21.74	22.40	22.88	21.40	22.07	21.90	22.56	23.04
	8H	21.30	21.90	21.82	22.41	22.90	21.45	22.05	21.96	22.56	23.04
	12H	21.33	21.86	21.84	22.35	22.92	21.49	22.02	22.00	22.51	23.07
12H	4H	20.92	21.65	21.40	22.12	22.59	21.17	21.90	21.66	22.38	22.85
	6H	21.23	21.83	21.74	22.34	22.83	21.39	21.99	21.90	22.50	22.99
	8H	21.32	21.85	21.83	22.34	22.91	21.47	22.00	21.98	22.49	23.05