

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: P1498871

Luminaire Tested: MAE-G-2-120-3STD-STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498871
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-STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

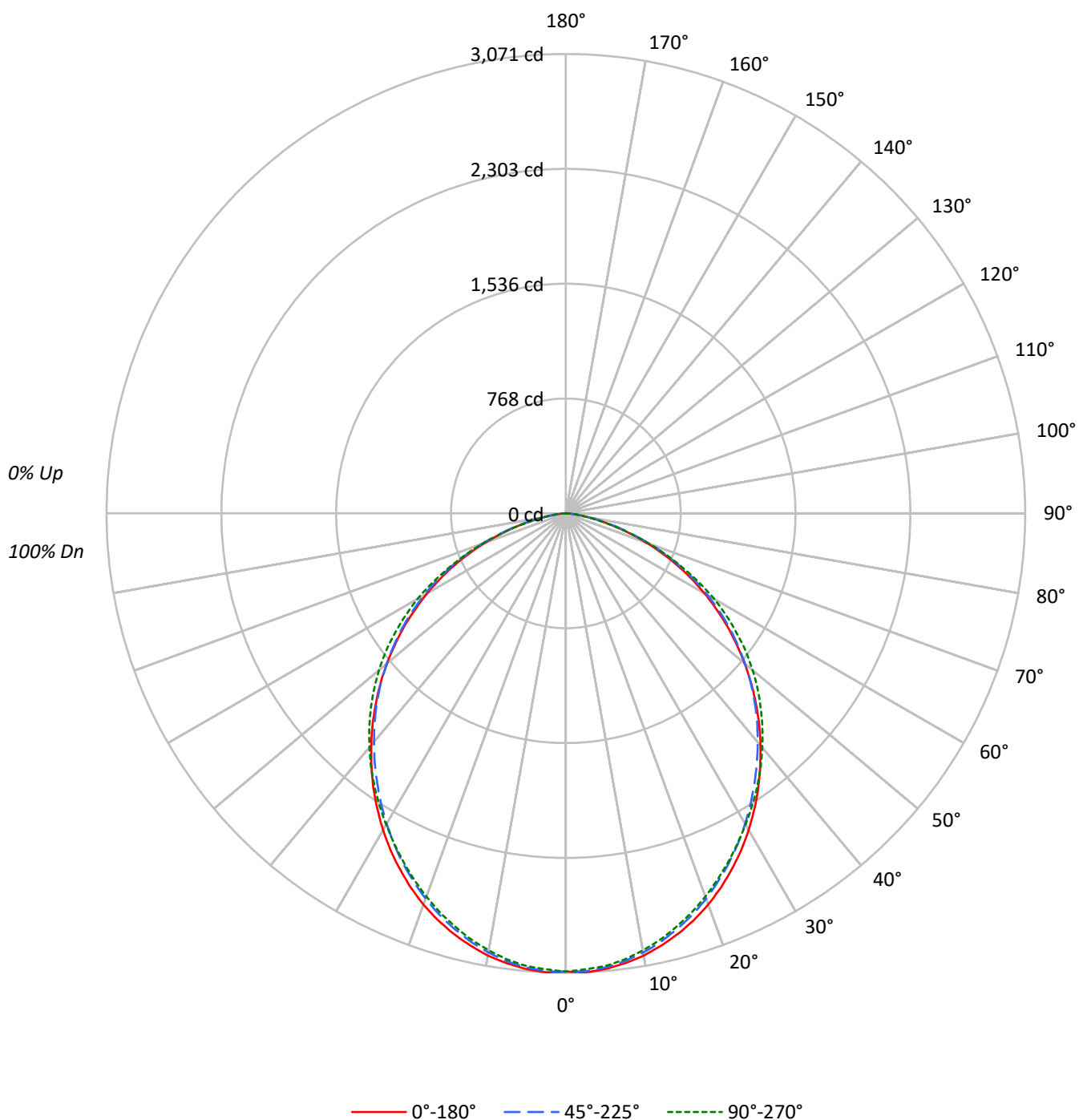
Lumens per Lamp: N/A
Luminaire Lumens: 7537.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.1
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	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°	8244	8244	8244
5°	8259	8232	8205
10°	8201	8146	8106
15°	8102	8013	7969
20°	7969	7850	7807
25°	7795	7660	7630
30°	7595	7445	7465
35°	7368	7225	7326
40°	7112	7012	7178
45°	6835	6793	7015
50°	6531	6546	6823
55°	6189	6260	6542
60°	5765	5894	6169
65°	5237	5398	5519
70°	4511	4691	4656
75°	3584	3726	3484
80°	2413	2445	2273
85°	1238	1535	1868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7015 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	3.8
10°-20°	810.4	10.8
20°-30°	1190.0	15.8
30°-40°	1385.3	18.4
40°-50°	1388.3	18.4
50°-60°	1199.7	15.9
60°-70°	834.9	11.1
70°-80°	375.1	5.0
80°-90°	65.1	0.9
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°	2288.8	30.4
0°-40°	3674.1	48.7
0°-60°	6262.0	83.1
0°-90°	7537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3063	3063	3063	3063	3063	
5°	3057	3044	3048	3033	3037	290
15°	2908	2890	2876	2856	2860	820
25°	2625	2602	2580	2560	2570	1209
35°	2243	2215	2199	2209	2230	1401
45°	1796	1776	1785	1820	1843	1386
55°	1319	1304	1334	1379	1394	1178
65°	822	820	848	864	867	813
75°	345	348	358	345	335	370
85°	40	43	50	57	60	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3063.4	3063.4	3063.4	3063.4	3063.4
2.5°	3071.1	3058.5	3063.4	3052.4	3050.3
5°	3057.3	3044.3	3047.5	3033.3	3037.4
7.5°	3033.5	3019.7	3019.4	3003.7	3007.6
10°	3001.4	2985.0	2981.2	2963.5	2966.4
12.5°	2958.6	2941.6	2933.7	2913.4	2918.3
15°	2908.2	2889.5	2876.2	2856.2	2860.5
17.5°	2849.8	2829.2	2813.2	2789.9	2797.1
20°	2782.9	2760.6	2741.4	2716.8	2726.3
22.5°	2707.8	2684.5	2662.4	2640.4	2649.8
25°	2625.2	2601.5	2579.9	2559.7	2569.7
27.5°	2538.3	2512.0	2490.1	2475.6	2486.6
30°	2444.3	2417.1	2395.9	2386.7	2402.5
32.5°	2345.0	2318.0	2299.2	2299.2	2317.4
35°	2243.0	2214.7	2199.3	2208.7	2230.0
37.5°	2133.4	2109.5	2098.9	2117.5	2139.1
40°	2024.7	1999.9	1996.0	2020.7	2043.5
42.5°	1912.4	1890.3	1891.7	1923.7	1944.8
45°	1796.0	1775.5	1784.9	1820.2	1843.3
47.5°	1681.7	1660.6	1676.3	1714.9	1739.8
50°	1560.1	1543.0	1563.6	1607.0	1629.8
52.5°	1439.3	1422.9	1449.8	1495.4	1517.5
55°	1319.2	1304.3	1334.3	1378.7	1394.5
57.5°	1194.8	1186.1	1217.2	1256.3	1272.8
60°	1071.1	1063.6	1095.1	1131.2	1146.2
62.5°	947.2	942.7	972.8	1002.1	1007.1
65°	822.5	819.7	847.8	863.6	866.7
67.5°	696.3	697.2	722.9	731.0	730.7
70°	573.3	572.7	596.2	598.5	591.8
72.5°	453.8	456.7	472.0	468.5	457.8
75°	344.7	347.5	358.4	345.2	335.1
77.5°	243.2	245.7	250.6	236.0	229.8
80°	155.7	160.4	157.8	150.9	146.7
82.5°	87.0	92.0	89.5	96.4	99.5
85°	40.1	43.2	49.7	57.3	60.5
87.5°	13.6	16.4	20.4	21.7	20.3
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	18.26	19.84	18.62	20.16	20.47	18.67	20.25	19.03	20.57	20.88
	3H	19.71	21.13	20.08	21.46	21.82	20.08	21.50	20.46	21.83	22.19
	4H	20.13	21.46	20.52	21.81	22.19	20.45	21.78	20.84	22.13	22.51
	6H	20.33	21.56	20.74	21.93	22.32	20.60	21.84	21.01	22.20	22.59
	8H	20.35	21.53	20.78	21.92	22.32	20.63	21.80	21.05	22.19	22.59
	12H	20.35	21.48	20.78	21.86	22.29	20.64	21.77	21.07	22.15	22.58
4H	2H	18.85	20.18	19.25	20.53	20.91	19.18	20.52	19.58	20.86	21.24
	3H	20.47	21.58	20.88	21.98	22.38	20.77	21.88	21.18	22.28	22.68
	4H	20.97	21.97	21.40	22.39	22.82	21.22	22.22	21.66	22.64	23.08
	6H	21.25	22.12	21.70	22.56	23.02	21.45	22.32	21.90	22.76	23.22
	8H	21.29	22.10	21.75	22.54	23.01	21.49	22.30	21.95	22.74	23.21
	12H	21.30	22.02	21.78	22.50	22.97	21.52	22.25	22.00	22.72	23.19
8H	4H	21.15	21.97	21.62	22.41	22.88	21.38	22.20	21.85	22.64	23.11
	6H	21.48	22.15	21.98	22.64	23.12	21.65	22.32	22.15	22.81	23.29
	8H	21.55	22.14	22.06	22.65	23.14	21.72	22.32	22.23	22.83	23.32
	12H	21.58	22.11	22.09	22.60	23.16	21.78	22.31	22.29	22.80	23.37
12H	4H	21.15	21.88	21.63	22.35	22.82	21.38	22.11	21.86	22.58	23.05
	6H	21.47	22.07	21.99	22.58	23.07	21.65	22.25	22.16	22.76	23.24
	8H	21.57	22.10	22.08	22.59	23.15	21.75	22.28	22.26	22.77	23.33