

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: P1499369

Luminaire Tested: MAE-G-4-120-2STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

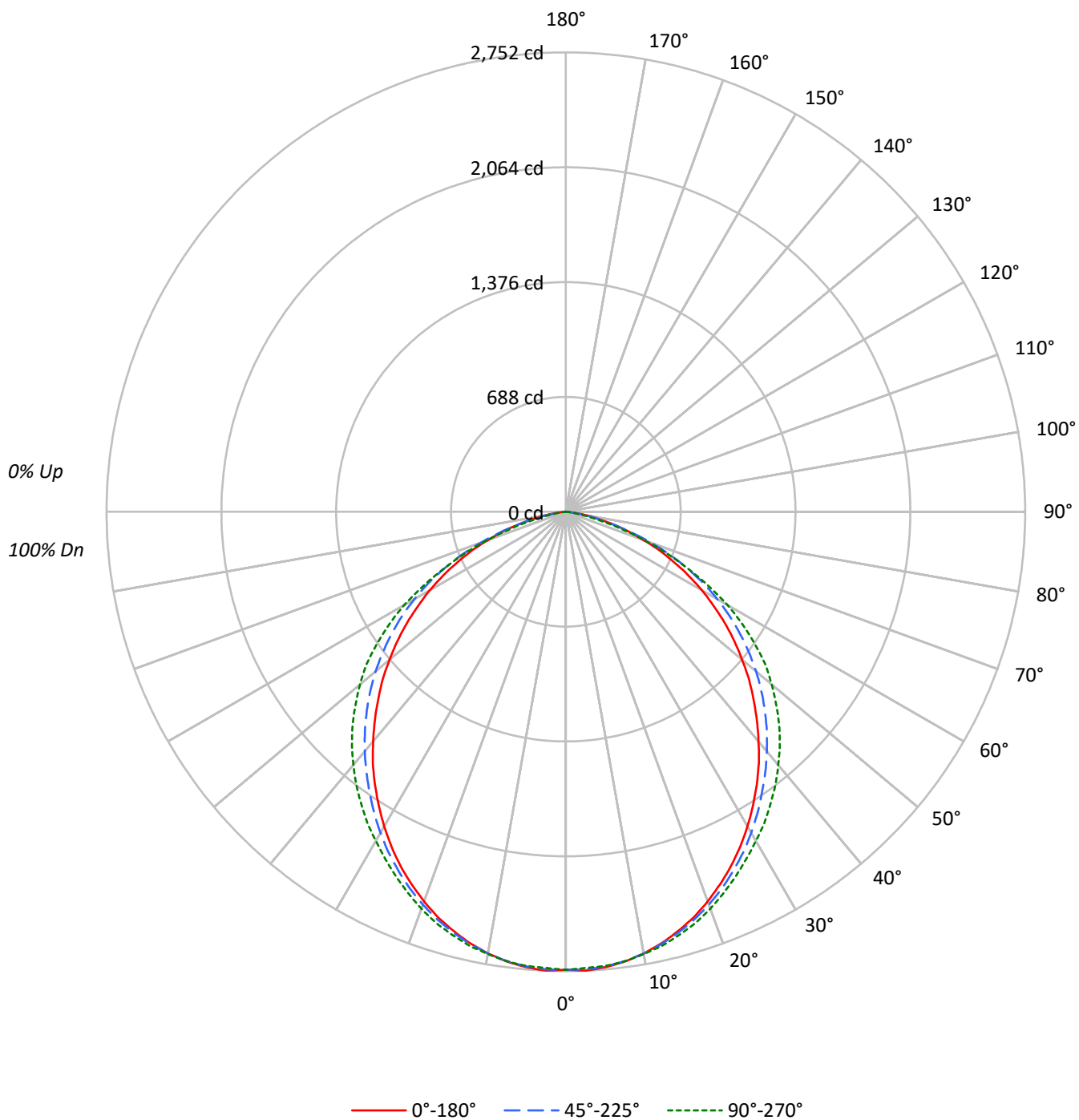
Lumens per Lamp: N/A
Luminaire Lumens: 6927.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	45	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3692	3692	3692
5°	3699	3693	3689
10°	3670	3670	3675
15°	3621	3634	3656
20°	3557	3586	3624
25°	3478	3524	3576
30°	3382	3451	3538
35°	3275	3367	3511
40°	3154	3292	3478
45°	3025	3209	3440
50°	2885	3113	3370
55°	2726	2988	3244
60°	2533	2821	3012
65°	2284	2563	2578
70°	1950	2133	1994
75°	1531	1545	1245
80°	996	795	477
85°	462	303	245

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	3.7
10°-20°	735.1	10.6
20°-30°	1092.0	15.8
30°-40°	1286.3	18.6
40°-50°	1303.1	18.8
50°-60°	1134.2	16.4
60°-70°	772.9	11.2
70°-80°	309.0	4.5
80°-90°	35.4	0.5
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°	2086.3	30.1
0°-40°	3372.5	48.7
0°-60°	5809.8	83.9
0°-90°	6927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2744	2744	2744	2744	2744	
5°	2739	2723	2734	2730	2731	260
15°	2600	2589	2609	2618	2625	733
25°	2342	2344	2373	2393	2409	1078
35°	1994	2004	2050	2104	2138	1246
45°	1590	1609	1687	1766	1808	1227
55°	1162	1187	1274	1354	1383	1038
65°	718	751	805	806	810	711
75°	294	312	297	255	240	317
85°	30	27	20	18	16	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2744.1	2744.1	2744.1	2744.1	2744.1
2.5°	2751.7	2734.0	2744.1	2742.3	2734.9
5°	2738.6	2722.7	2734.0	2730.3	2731.2
7.5°	2717.1	2702.3	2714.5	2713.4	2716.3
10°	2686.5	2671.6	2686.5	2687.3	2690.2
12.5°	2648.2	2635.2	2652.9	2656.6	2663.2
15°	2599.8	2588.6	2609.0	2618.5	2624.9
17.5°	2547.6	2540.2	2560.6	2572.8	2583.1
20°	2484.2	2480.5	2504.8	2516.8	2530.8
22.5°	2415.2	2413.4	2442.4	2457.2	2471.2
25°	2342.5	2343.5	2373.4	2393.0	2408.8
27.5°	2262.4	2264.3	2300.7	2324.0	2343.5
30°	2176.7	2181.5	2221.4	2253.1	2277.4
32.5°	2086.3	2094.8	2137.6	2181.5	2212.1
35°	1994.0	2003.5	2050.1	2104.0	2137.6
37.5°	1899.1	1909.4	1963.4	2026.8	2062.2
40°	1795.7	1811.4	1874.0	1943.8	1980.0
42.5°	1694.0	1711.7	1781.7	1858.1	1897.2
45°	1589.8	1609.3	1686.6	1765.8	1807.7
47.5°	1489.0	1505.7	1588.7	1671.7	1709.0
50°	1378.2	1400.5	1487.2	1570.2	1610.1
52.5°	1272.0	1293.4	1381.9	1466.6	1507.8
55°	1162.0	1187.1	1273.8	1353.9	1382.8
57.5°	1051.2	1080.0	1163.8	1230.0	1255.1
60°	941.2	970.0	1048.3	1100.4	1119.2
62.5°	830.2	860.1	929.1	960.8	964.5
65°	717.5	751.1	805.1	806.1	809.8
67.5°	610.4	638.3	677.4	666.3	660.7
70°	495.7	526.4	542.3	520.0	506.9
72.5°	394.2	416.4	413.8	381.0	365.4
75°	294.5	312.2	297.2	255.4	239.5
77.5°	204.1	218.9	189.1	149.9	134.3
80°	128.5	135.1	102.6	72.7	61.6
82.5°	69.0	68.0	43.9	36.2	33.6
85°	29.9	27.0	19.6	17.7	15.9
87.5°	10.3	9.3	7.4	6.6	5.6
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	15.45	17.04	15.82	17.35	17.66	16.42	18.00	16.78	18.31	18.63
	3H	16.88	18.30	17.25	18.62	18.98	17.61	19.03	17.98	19.35	19.71
	4H	17.27	18.60	17.67	18.95	19.33	17.82	19.15	18.22	19.50	19.88
	6H	17.44	18.67	17.85	19.04	19.43	17.84	19.07	18.25	19.43	19.83
	8H	17.46	18.63	17.88	19.02	19.42	17.81	18.99	18.24	19.38	19.78
	12H	17.45	18.57	17.88	18.95	19.38	17.79	18.91	18.22	19.29	19.72
4H	2H	16.12	17.45	16.51	17.80	18.17	16.89	18.22	17.29	18.57	18.95
	3H	17.69	18.80	18.10	19.20	19.60	18.24	19.34	18.65	19.74	20.14
	4H	18.17	19.16	18.60	19.58	20.01	18.51	19.50	18.94	19.91	20.35
	6H	18.41	19.27	18.87	19.71	20.17	18.56	19.42	19.01	19.86	20.32
	8H	18.43	19.23	18.89	19.68	20.14	18.53	19.34	19.00	19.78	20.25
	12H	18.43	19.15	18.91	19.63	20.10	18.51	19.23	18.99	19.71	20.18
8H	4H	18.31	19.11	18.77	19.55	20.02	18.62	19.42	19.08	19.87	20.33
	6H	18.58	19.24	19.08	19.73	20.21	18.68	19.34	19.18	19.83	20.31
	8H	18.62	19.21	19.13	19.72	20.21	18.66	19.25	19.17	19.76	20.25
	12H	18.63	19.15	19.14	19.64	20.21	18.64	19.16	19.15	19.65	20.22
12H	4H	18.29	19.00	18.77	19.48	19.95	18.61	19.33	19.09	19.81	20.28
	6H	18.55	19.14	19.06	19.65	20.14	18.66	19.25	19.17	19.76	20.25
	8H	18.61	19.13	19.12	19.63	20.19	18.66	19.18	19.17	19.67	20.23