

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: P1498883

Luminaire Tested: MAE-G-2-120-3STD-STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498883
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-50-90-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

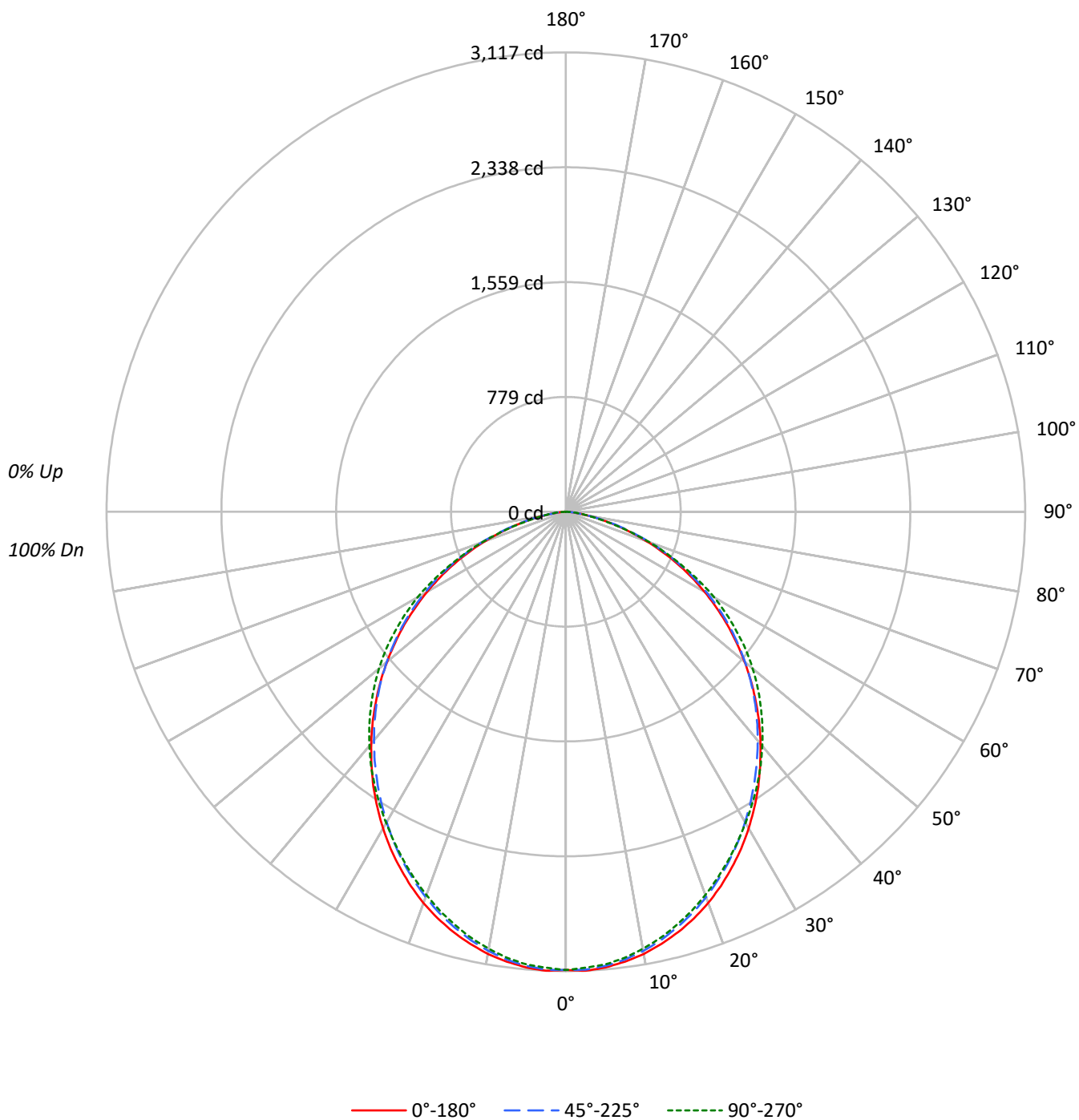
Lumens per Lamp: N/A
Luminaire Lumens: 7650.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	8367	8367	8367
5°	8382	8356	8328
10°	8324	8268	8227
15°	8223	8133	8089
20°	8089	7968	7924
25°	7912	7775	7744
30°	7709	7556	7577
35°	7479	7333	7435
40°	7219	7117	7286
45°	6937	6895	7120
50°	6629	6644	6926
55°	6282	6354	6641
60°	5851	5982	6261
65°	5315	5480	5601
70°	4578	4762	4726
75°	3638	3782	3536
80°	2448	2481	2307
85°	1260	1559	1896

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7120 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	3.8
10°-20°	822.5	10.8
20°-30°	1207.8	15.8
30°-40°	1406.1	18.4
40°-50°	1409.1	18.4
50°-60°	1217.7	15.9
60°-70°	847.4	11.1
70°-80°	380.7	5.0
80°-90°	66.1	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°	2323.1	30.4
0°-40°	3729.2	48.7
0°-60°	6355.9	83.1
0°-90°	7650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3109	3109	3109	3109	3109	
5°	3103	3090	3093	3079	3083	294
15°	2952	2933	2919	2899	2904	832
25°	2665	2641	2618	2598	2608	1227
35°	2277	2248	2232	2242	2263	1422
45°	1823	1802	1812	1848	1871	1406
55°	1339	1324	1354	1399	1416	1195
65°	835	832	861	877	880	825
75°	350	353	364	350	340	376
85°	41	44	50	58	61	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3109.4	3109.4	3109.4	3109.4	3109.4
2.5°	3117.1	3104.3	3109.4	3098.2	3095.9
5°	3103.1	3089.9	3093.2	3078.7	3082.9
7.5°	3079.0	3065.0	3064.6	3048.8	3052.6
10°	3046.3	3029.8	3025.9	3008.0	3010.9
12.5°	3002.8	2985.8	2977.6	2957.1	2962.1
15°	2951.8	2932.9	2919.3	2899.0	2903.5
17.5°	2892.5	2871.6	2855.3	2831.7	2839.1
20°	2824.6	2802.1	2782.5	2757.5	2767.2
22.5°	2748.3	2724.7	2702.4	2679.9	2689.5
25°	2664.6	2640.6	2618.5	2598.1	2608.2
27.5°	2576.4	2549.6	2527.5	2512.7	2523.8
30°	2481.0	2453.3	2431.8	2422.5	2438.5
32.5°	2380.2	2352.8	2333.7	2333.7	2352.2
35°	2276.7	2247.8	2232.3	2241.9	2263.4
37.5°	2165.4	2141.0	2130.4	2149.3	2171.2
40°	2055.1	2029.8	2025.9	2051.0	2074.2
42.5°	1941.0	1918.6	1920.0	1952.5	1973.9
45°	1822.9	1802.0	1811.7	1847.5	1871.0
47.5°	1706.8	1685.5	1701.3	1740.6	1765.9
50°	1583.5	1566.1	1587.1	1631.0	1654.3
52.5°	1460.9	1444.2	1471.4	1517.9	1540.3
55°	1339.0	1323.8	1354.3	1399.4	1415.5
57.5°	1212.7	1203.9	1235.5	1275.2	1292.0
60°	1087.1	1079.6	1111.5	1148.3	1163.4
62.5°	961.4	956.8	987.4	1017.1	1022.2
65°	834.7	832.0	860.6	876.6	879.7
67.5°	706.7	707.7	733.8	742.0	741.7
70°	581.8	581.2	605.2	607.4	600.7
72.5°	460.6	463.6	479.2	475.5	464.7
75°	349.9	352.7	363.8	350.3	340.1
77.5°	246.9	249.4	254.4	239.5	233.1
80°	158.0	162.8	160.1	153.2	148.9
82.5°	88.3	93.4	90.9	97.9	101.0
85°	40.8	43.8	50.5	58.2	61.4
87.5°	13.9	16.6	20.7	22.1	20.6
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	18.31	19.90	18.68	20.21	20.52	18.72	20.31	19.09	20.62	20.93
	3H	19.76	21.18	20.14	21.51	21.87	20.13	21.56	20.51	21.88	22.24
	4H	20.18	21.51	20.58	21.86	22.24	20.50	21.84	20.90	22.18	22.56
	6H	20.38	21.61	20.79	21.98	22.37	20.65	21.89	21.06	22.25	22.64
	8H	20.40	21.58	20.83	21.97	22.37	20.68	21.86	21.10	22.25	22.65
	12H	20.40	21.53	20.83	21.91	22.34	20.69	21.82	21.12	22.20	22.63
4H	2H	18.90	20.24	19.30	20.58	20.96	19.23	20.57	19.63	20.92	21.29
	3H	20.52	21.63	20.93	22.03	22.43	20.82	21.94	21.23	22.33	22.74
	4H	21.02	22.02	21.46	22.44	22.88	21.28	22.28	21.71	22.69	23.13
	6H	21.30	22.17	21.75	22.61	23.07	21.50	22.37	21.95	22.81	23.27
	8H	21.34	22.15	21.80	22.59	23.06	21.54	22.35	22.00	22.80	23.26
	12H	21.35	22.07	21.83	22.55	23.02	21.57	22.30	22.05	22.77	23.24
8H	4H	21.21	22.02	21.67	22.46	22.93	21.44	22.25	21.90	22.69	23.16
	6H	21.53	22.20	22.03	22.69	23.17	21.71	22.38	22.20	22.87	23.34
	8H	21.60	22.20	22.11	22.70	23.19	21.77	22.37	22.29	22.88	23.37
	12H	21.63	22.16	22.14	22.65	23.21	21.84	22.36	22.34	22.86	23.42
12H	4H	21.20	21.93	21.68	22.41	22.88	21.43	22.16	21.91	22.64	23.11
	6H	21.53	22.13	22.04	22.63	23.12	21.70	22.30	22.21	22.81	23.29
	8H	21.62	22.15	22.13	22.64	23.21	21.80	22.33	22.31	22.82	23.38