

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: P1499075

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499075
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-STD-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

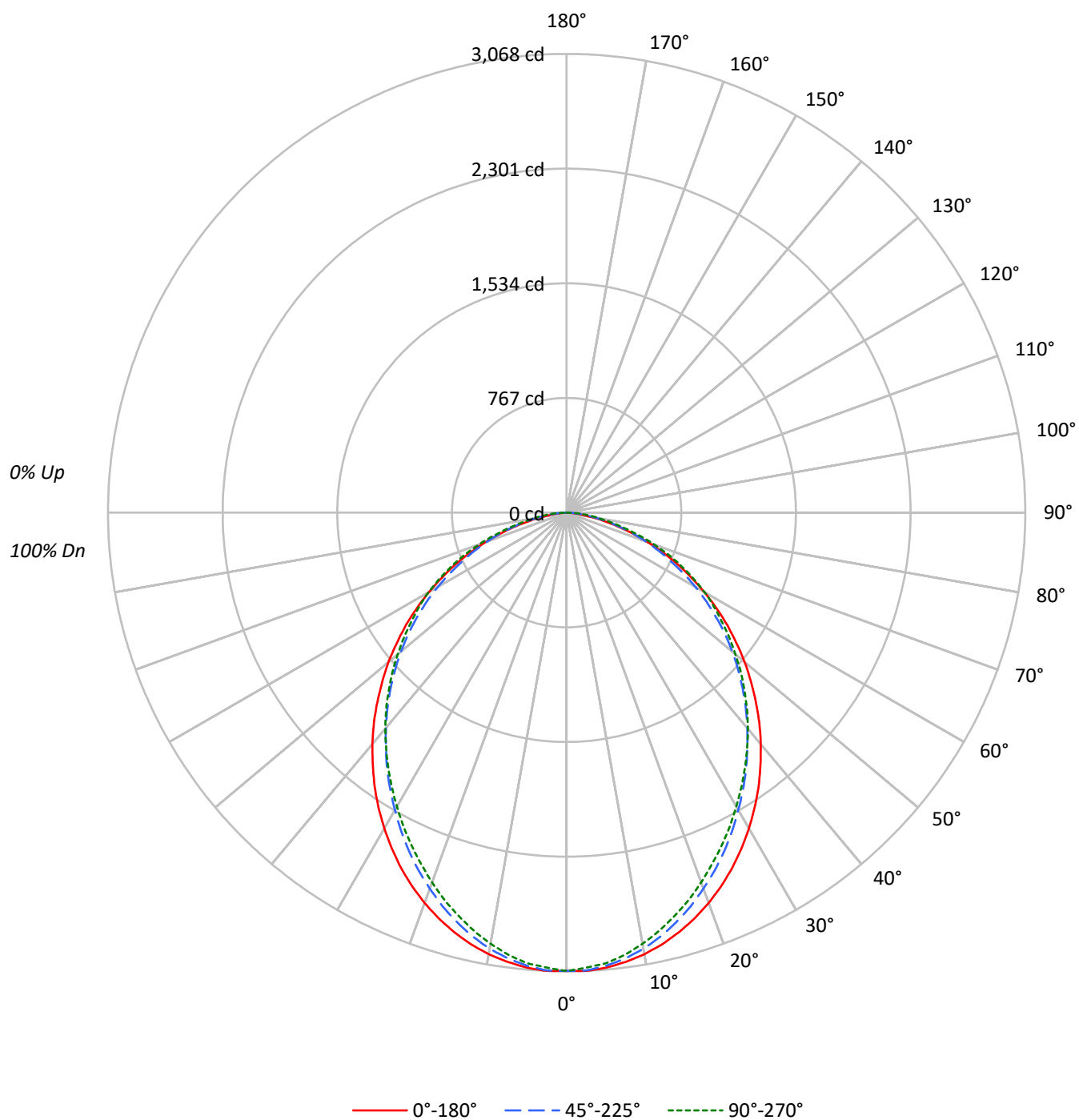
Lumens per Lamp: N/A
Luminaire Lumens: 7288.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	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°	4124	4124	4124
5°	4126	4108	4086
10°	4097	4046	4000
15°	4046	3949	3888
20°	3977	3831	3768
25°	3891	3706	3645
30°	3788	3568	3526
35°	3677	3437	3417
40°	3549	3302	3313
45°	3407	3168	3201
50°	3254	3027	3085
55°	3077	2865	2968
60°	2861	2680	2872
65°	2608	2449	2702
70°	2268	2220	2457
75°	1815	1925	2093
80°	1262	1535	1733
85°	709	1203	1596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	3.9
10°-20°	799.5	11.0
20°-30°	1158.0	15.9
30°-40°	1329.0	18.2
40°-50°	1312.0	18.0
50°-60°	1121.3	15.4
60°-70°	794.6	10.9
70°-80°	396.0	5.4
80°-90°	90.2	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°	2245.0	30.8
0°-40°	3574.0	49.0
0°-60°	6007.2	82.4
0°-90°	7288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3065	3065	3065	3065	3065	
5°	3055	3052	3042	3018	3025	290
15°	2905	2886	2835	2789	2791	818
25°	2621	2577	2496	2452	2455	1206
35°	2238	2177	2093	2071	2080	1399
45°	1790	1731	1665	1671	1682	1381
55°	1312	1258	1222	1244	1265	1171
65°	819	776	769	824	849	810
75°	349	330	370	399	403	377
85°	46	57	78	96	103	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3064.8	3064.8	3064.8	3064.8	3064.8
2.5°	3068.2	3071.1	3064.8	3040.7	3045.6
5°	3054.6	3052.2	3041.9	3017.8	3024.9
7.5°	3030.5	3025.8	3007.4	2978.2	2982.7
10°	2998.4	2989.0	2961.2	2924.4	2927.6
12.5°	2956.8	2943.6	2904.0	2861.5	2864.3
15°	2904.8	2886.1	2835.0	2788.8	2791.2
17.5°	2845.2	2823.0	2760.5	2710.1	2716.6
20°	2777.8	2748.2	2675.7	2626.6	2631.3
22.5°	2703.1	2666.3	2589.5	2540.8	2543.2
25°	2621.0	2576.6	2496.2	2452.2	2455.3
27.5°	2532.6	2483.5	2399.5	2358.0	2364.3
30°	2438.2	2384.9	2296.4	2263.1	2269.8
32.5°	2340.9	2283.9	2195.9	2169.1	2175.9
35°	2238.5	2176.7	2092.6	2071.0	2080.1
37.5°	2129.1	2069.0	1985.4	1975.6	1983.6
40°	2020.5	1958.3	1879.8	1875.8	1886.5
42.5°	1907.6	1846.9	1773.7	1774.1	1786.9
45°	1790.3	1731.2	1665.1	1670.6	1682.5
47.5°	1672.0	1614.0	1556.7	1565.7	1580.9
50°	1554.7	1498.3	1446.3	1460.6	1473.9
52.5°	1430.9	1377.4	1335.6	1351.7	1371.1
55°	1311.9	1257.5	1221.5	1243.7	1265.4
57.5°	1188.3	1141.8	1109.7	1139.9	1168.4
60°	1063.1	1017.8	995.8	1038.9	1067.4
62.5°	940.2	896.0	880.7	935.3	958.1
65°	819.2	776.2	769.1	824.3	848.8
67.5°	698.5	659.8	667.0	723.4	740.7
70°	576.4	541.4	564.2	613.8	624.5
72.5°	460.9	432.0	467.1	505.5	510.5
75°	349.2	330.5	370.2	398.8	402.7
77.5°	250.3	240.5	279.2	301.5	306.2
80°	162.9	166.3	198.1	216.8	223.6
82.5°	95.2	104.4	129.9	153.5	160.6
85°	45.9	57.0	77.9	95.8	103.4
87.5°	15.7	23.1	32.7	36.4	35.4
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	15.74	17.33	16.11	17.64	17.96	15.72	17.31	16.09	17.62	17.94
	3H	17.21	18.63	17.58	18.96	19.32	17.43	18.85	17.80	19.18	19.54
	4H	17.64	18.98	18.04	19.33	19.71	17.98	19.32	18.38	19.67	20.04
	6H	17.87	19.11	18.28	19.47	19.87	18.33	19.57	18.74	19.93	20.33
	8H	17.91	19.09	18.33	19.48	19.88	18.44	19.62	18.87	20.01	20.41
	12H	17.91	19.04	18.34	19.43	19.85	18.52	19.65	18.95	20.03	20.46
4H	2H	16.24	17.58	16.64	17.93	18.31	16.22	17.56	16.62	17.91	18.29
	3H	17.89	19.01	18.30	19.41	19.81	18.14	19.25	18.55	19.65	20.05
	4H	18.42	19.42	18.85	19.84	20.27	18.81	19.81	19.24	20.23	20.67
	6H	18.73	19.60	19.18	20.04	20.50	19.27	20.15	19.73	20.59	21.05
	8H	18.78	19.60	19.25	20.05	20.51	19.42	20.24	19.88	20.68	21.15
	12H	18.81	19.54	19.29	20.02	20.49	19.54	20.28	20.02	20.75	21.22
8H	4H	18.65	19.47	19.11	19.91	20.38	19.00	19.82	19.46	20.26	20.73
	6H	19.03	19.71	19.52	20.20	20.67	19.56	20.23	20.05	20.72	21.20
	8H	19.12	19.73	19.63	20.24	20.73	19.77	20.38	20.28	20.88	21.37
	12H	19.18	19.72	19.69	20.21	20.77	19.96	20.49	20.46	20.98	21.55
12H	4H	18.67	19.40	19.15	19.88	20.35	19.00	19.74	19.48	20.21	20.68
	6H	19.06	19.67	19.57	20.17	20.66	19.57	20.18	20.08	20.68	21.17
	8H	19.19	19.73	19.70	20.22	20.78	19.83	20.36	20.33	20.85	21.42