

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: P1499056

Luminaire Tested: MAE-G-4-120-1LO-STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499056
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-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

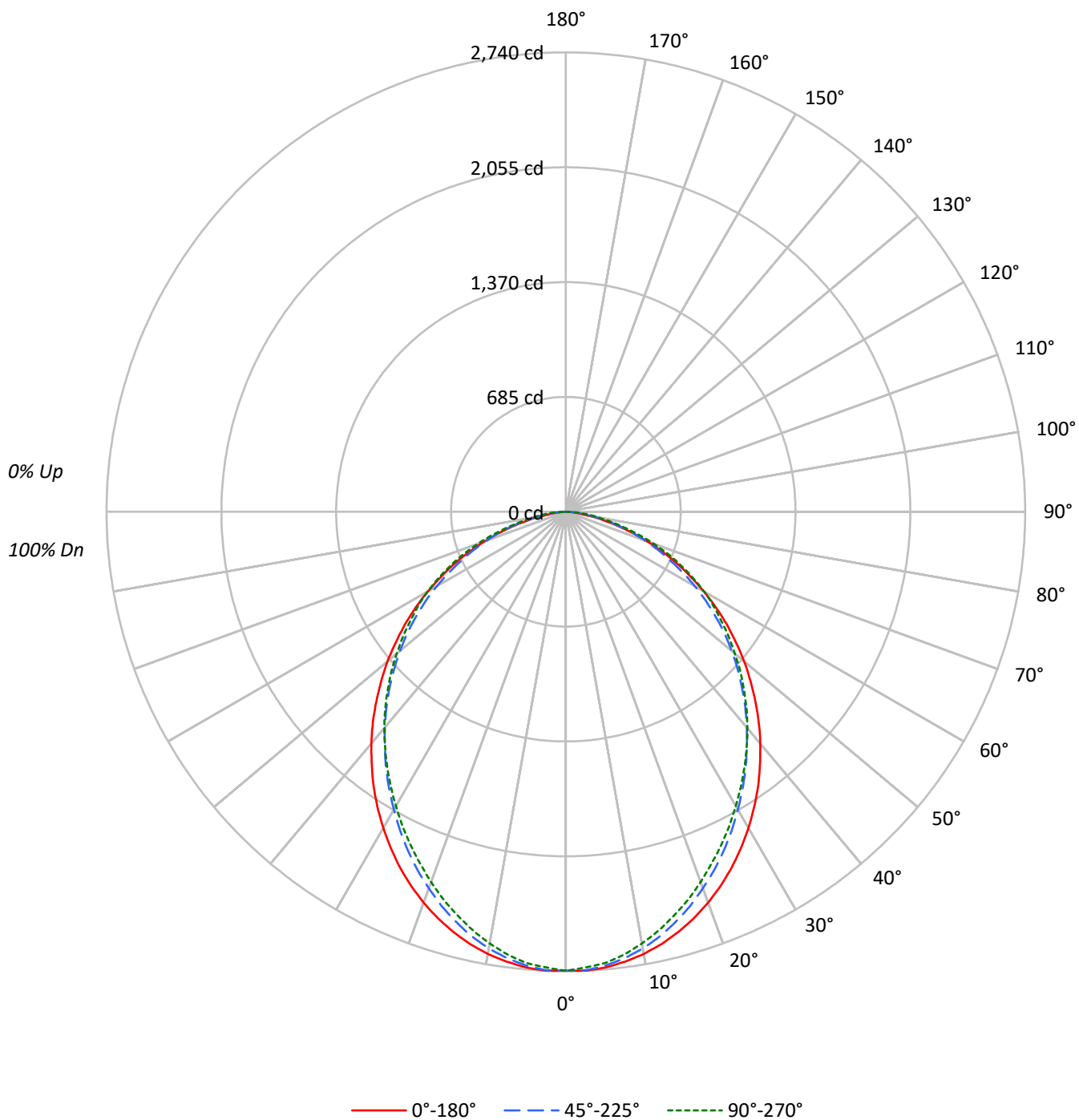
Lumens per Lamp: N/A
Luminaire Lumens: 6509.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3683	3683	3683
5°	3685	3669	3649
10°	3659	3613	3572
15°	3614	3527	3472
20°	3552	3422	3365
25°	3475	3310	3255
30°	3383	3187	3150
35°	3284	3070	3051
40°	3170	2949	2959
45°	3043	2829	2859
50°	2907	2704	2756
55°	2748	2559	2651
60°	2555	2393	2565
65°	2330	2187	2413
70°	2025	1982	2194
75°	1621	1719	1870
80°	1127	1371	1548
85°	633	1074	1426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3043 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.8	3.9
10°-20°	714.1	11.0
20°-30°	1034.2	15.9
30°-40°	1186.9	18.2
40°-50°	1171.8	18.0
50°-60°	1001.4	15.4
60°-70°	709.6	10.9
70°-80°	353.7	5.4
80°-90°	80.5	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°	2005.0	30.8
0°-40°	3191.9	49.0
0°-60°	5365.1	82.4
0°-90°	6509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2737	2737	2737	2737	2737	
5°	2728	2726	2717	2695	2702	259
15°	2594	2578	2532	2491	2493	731
25°	2341	2301	2230	2190	2193	1077
35°	1999	1944	1869	1850	1858	1249
45°	1599	1546	1487	1492	1503	1233
55°	1172	1123	1091	1111	1130	1046
65°	732	693	687	736	758	724
75°	312	295	331	356	360	336
85°	41	51	70	86	92	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2737.2	2737.2	2737.2	2737.2	2737.2
2.5°	2740.3	2742.8	2737.2	2715.7	2720.1
5°	2728.1	2726.0	2716.8	2695.3	2701.6
7.5°	2706.5	2702.3	2685.9	2659.9	2663.9
10°	2678.0	2669.6	2644.7	2611.9	2614.7
12.5°	2640.7	2628.9	2593.7	2555.6	2558.2
15°	2594.4	2577.7	2532.0	2490.6	2492.9
17.5°	2541.1	2521.3	2465.4	2420.4	2426.2
20°	2481.0	2454.5	2389.7	2345.9	2350.1
22.5°	2414.2	2381.3	2312.7	2269.2	2271.3
25°	2340.8	2301.3	2229.5	2190.1	2192.8
27.5°	2262.0	2218.1	2143.0	2105.9	2111.5
30°	2177.6	2130.0	2051.0	2021.1	2027.2
32.5°	2090.7	2039.8	1961.2	1937.3	1943.3
35°	1999.3	1944.0	1868.9	1849.6	1857.7
37.5°	1901.6	1847.9	1773.1	1764.3	1771.6
40°	1804.6	1749.0	1678.9	1675.3	1684.8
42.5°	1703.6	1649.6	1584.0	1584.4	1595.8
45°	1599.0	1546.2	1487.0	1492.1	1502.6
47.5°	1493.3	1441.5	1390.3	1398.4	1411.9
50°	1388.6	1338.2	1291.7	1304.5	1316.4
52.5°	1278.0	1230.2	1192.8	1207.2	1224.5
55°	1171.6	1123.2	1090.9	1110.7	1130.1
57.5°	1061.3	1019.8	991.1	1018.0	1043.5
60°	949.6	908.9	889.4	927.8	953.2
62.5°	839.7	800.2	786.6	835.3	855.7
65°	731.7	693.2	686.8	736.2	758.0
67.5°	623.9	589.2	595.7	646.1	661.6
70°	514.7	483.5	503.9	548.2	557.8
72.5°	411.6	385.9	417.3	451.5	456.0
75°	311.8	295.2	330.6	356.1	359.7
77.5°	223.6	214.8	249.4	269.2	273.5
80°	145.5	148.5	176.9	193.6	199.8
82.5°	85.1	93.3	116.0	137.1	143.4
85°	41.0	50.8	69.6	85.5	92.4
87.5°	14.1	20.6	29.3	32.6	31.7
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	15.35	16.94	15.72	17.25	17.56	15.33	16.91	15.70	17.23	17.54
	3H	16.81	18.24	17.19	18.57	18.93	17.03	18.46	17.41	18.79	19.15
	4H	17.25	18.59	17.65	18.94	19.31	17.59	18.93	17.98	19.27	19.65
	6H	17.48	18.72	17.89	19.08	19.47	17.94	19.18	18.35	19.54	19.93
	8H	17.51	18.70	17.94	19.08	19.48	18.05	19.23	18.47	19.62	20.02
	12H	17.52	18.65	17.95	19.03	19.46	18.13	19.26	18.56	19.64	20.07
4H	2H	15.85	17.19	16.25	17.54	17.91	15.83	17.17	16.23	17.52	17.90
	3H	17.50	18.62	17.91	19.02	19.42	17.74	18.86	18.15	19.26	19.66
	4H	18.02	19.03	18.45	19.44	19.88	18.41	19.42	18.85	19.84	20.27
	6H	18.33	19.21	18.79	19.65	20.11	18.88	19.75	19.33	20.20	20.65
	8H	18.39	19.21	18.85	19.65	20.12	19.03	19.85	19.49	20.29	20.76
	12H	18.42	19.15	18.90	19.63	20.10	19.15	19.88	19.63	20.36	20.83
8H	4H	18.26	19.07	18.72	19.52	19.98	18.61	19.43	19.07	19.87	20.34
	6H	18.64	19.31	19.13	19.80	20.28	19.16	19.84	19.66	20.33	20.81
	8H	18.73	19.34	19.24	19.85	20.33	19.38	19.98	19.89	20.49	20.98
	12H	18.79	19.32	19.30	19.81	20.38	19.56	20.10	20.07	20.59	21.15
12H	4H	18.27	19.01	18.75	19.48	19.95	18.61	19.34	19.09	19.82	20.29
	6H	18.66	19.27	19.18	19.78	20.27	19.17	19.78	19.69	20.29	20.78
	8H	18.80	19.34	19.31	19.83	20.39	19.43	19.97	19.94	20.46	21.02