

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: P1498855

Luminaire Tested: MAE-G-2-120-3STD-LO-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498855
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-LO-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

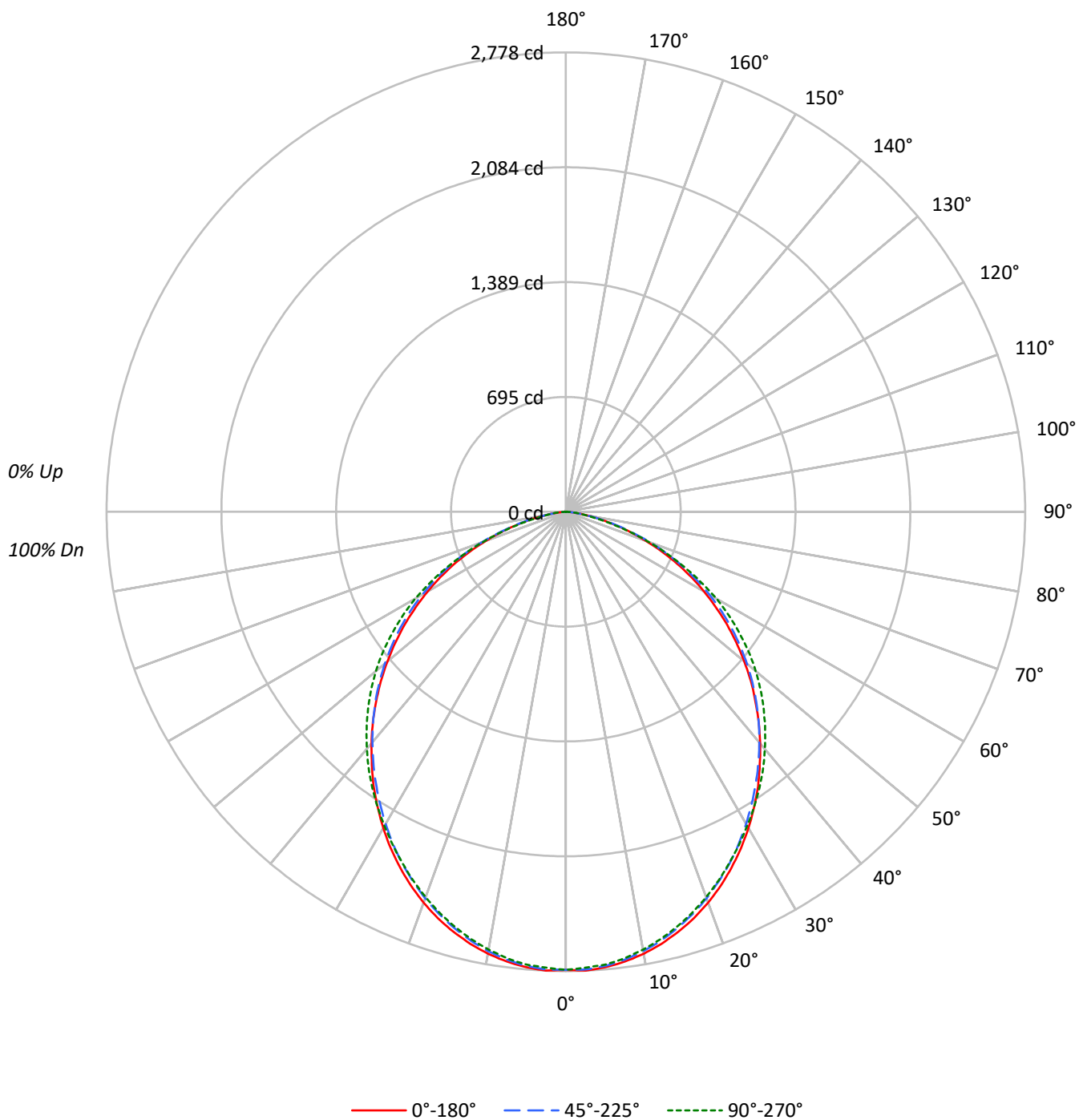
Lumens per Lamp: N/A
Luminaire Lumens: 6848.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	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	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7455	7455	7455
5°	7469	7446	7425
10°	7416	7374	7345
15°	7326	7261	7237
20°	7204	7124	7103
25°	7045	6960	6955
30°	6863	6773	6817
35°	6657	6580	6702
40°	6424	6394	6579
45°	6171	6201	6440
50°	5895	5981	6275
55°	5585	5725	6019
60°	5200	5393	5666
65°	4719	4937	5032
70°	4059	4266	4191
75°	3219	3344	3051
80°	2157	2123	1886
85°	1096	1272	1504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	3.8
10°-20°	734.4	10.7
20°-30°	1080.6	15.8
30°-40°	1260.5	18.4
40°-50°	1265.6	18.5
50°-60°	1095.1	16.0
60°-70°	760.0	11.1
70°-80°	335.5	4.9
80°-90°	55.4	0.8
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°	2076.0	30.3
0°-40°	3336.5	48.7
0°-60°	5697.1	83.2
0°-90°	6848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2770	2770	2770	2770	2770	
5°	2765	2752	2756	2745	2749	262
15°	2630	2614	2606	2593	2598	741
25°	2373	2355	2344	2332	2342	1092
35°	2026	2006	2003	2018	2040	1266
45°	1622	1609	1629	1668	1692	1251
55°	1190	1183	1220	1267	1283	1063
65°	741	744	775	788	790	732
75°	310	315	322	305	293	333
85°	36	37	41	47	49	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2770.3	2770.3	2770.3	2770.3	2770.3
2.5°	2777.5	2765.0	2770.3	2761.5	2758.9
5°	2764.9	2752.3	2756.5	2745.1	2748.6
7.5°	2743.4	2730.4	2731.9	2720.0	2723.4
10°	2714.1	2699.3	2698.6	2685.4	2688.2
12.5°	2675.2	2660.3	2657.0	2642.3	2647.2
15°	2629.6	2613.6	2606.5	2593.0	2597.6
17.5°	2576.7	2559.5	2551.2	2535.1	2542.5
20°	2515.8	2497.9	2487.8	2470.6	2480.4
22.5°	2447.8	2429.4	2417.6	2402.9	2413.2
25°	2372.8	2355.0	2344.2	2331.6	2342.3
27.5°	2294.1	2274.2	2264.2	2256.8	2268.7
30°	2208.8	2188.6	2179.7	2177.5	2193.9
32.5°	2118.7	2099.4	2092.9	2099.3	2118.2
35°	2026.5	2006.1	2003.1	2018.4	2040.2
37.5°	1927.0	1911.1	1912.8	1936.5	1958.9
40°	1828.8	1812.0	1820.1	1849.4	1872.8
42.5°	1727.1	1713.1	1725.8	1762.0	1784.0
45°	1621.6	1609.4	1629.4	1668.3	1692.3
47.5°	1518.5	1505.5	1530.8	1572.9	1598.4
50°	1408.2	1399.0	1428.7	1474.9	1498.8
52.5°	1299.3	1290.3	1325.1	1373.5	1396.1
55°	1190.5	1183.0	1220.2	1266.8	1283.0
57.5°	1078.0	1076.1	1113.6	1154.0	1170.5
60°	966.1	965.1	1002.0	1038.4	1052.7
62.5°	854.1	855.7	890.0	918.2	922.0
65°	741.1	744.2	775.3	788.3	790.3
67.5°	627.0	632.9	659.8	664.2	662.7
70°	515.9	519.9	542.2	540.5	532.7
72.5°	407.9	414.3	426.7	419.2	407.5
75°	309.6	314.9	321.6	304.7	293.4
77.5°	218.1	221.8	222.1	204.0	196.3
80°	139.2	143.6	137.0	126.9	121.7
82.5°	77.3	81.3	75.5	79.5	81.4
85°	35.5	37.3	41.2	46.6	48.7
87.5°	12.1	14.0	16.7	17.7	16.4
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	17.91	19.49	18.27	19.81	20.12	18.41	20.00	18.78	20.31	20.63
	3H	19.35	20.78	19.73	21.10	21.46	19.79	21.21	20.17	21.54	21.90
	4H	19.77	21.10	20.16	21.45	21.83	20.13	21.46	20.53	21.81	22.19
	6H	19.96	21.20	20.37	21.56	21.95	20.26	21.49	20.67	21.86	22.25
	8H	19.99	21.16	20.41	21.55	21.95	20.27	21.45	20.70	21.84	22.24
	12H	19.98	21.11	20.41	21.49	21.92	20.27	21.40	20.70	21.78	22.21
4H	2H	18.51	19.85	18.91	20.20	20.57	18.92	20.25	19.32	20.60	20.98
	3H	20.12	21.23	20.53	21.63	22.03	20.47	21.58	20.88	21.98	22.38
	4H	20.62	21.62	21.05	22.04	22.47	20.89	21.89	21.32	22.31	22.74
	6H	20.89	21.76	21.35	22.20	22.66	21.08	21.95	21.54	22.39	22.85
	8H	20.93	21.74	21.39	22.18	22.65	21.11	21.92	21.57	22.37	22.83
	12H	20.94	21.66	21.42	22.14	22.61	21.13	21.86	21.61	22.33	22.80
8H	4H	20.80	21.61	21.26	22.05	22.52	21.05	21.86	21.51	22.30	22.77
	6H	21.12	21.79	21.61	22.28	22.75	21.28	21.95	21.77	22.44	22.91
	8H	21.18	21.78	21.69	22.28	22.77	21.33	21.92	21.84	22.43	22.92
	12H	21.21	21.73	21.71	22.23	22.79	21.37	21.90	21.88	22.39	22.95
12H	4H	20.79	21.52	21.27	21.99	22.46	21.04	21.77	21.52	22.24	22.71
	6H	21.11	21.70	21.62	22.21	22.70	21.27	21.87	21.78	22.37	22.86
	8H	21.20	21.72	21.71	22.22	22.78	21.35	21.88	21.86	22.37	22.93