

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: P1498879

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498879
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-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

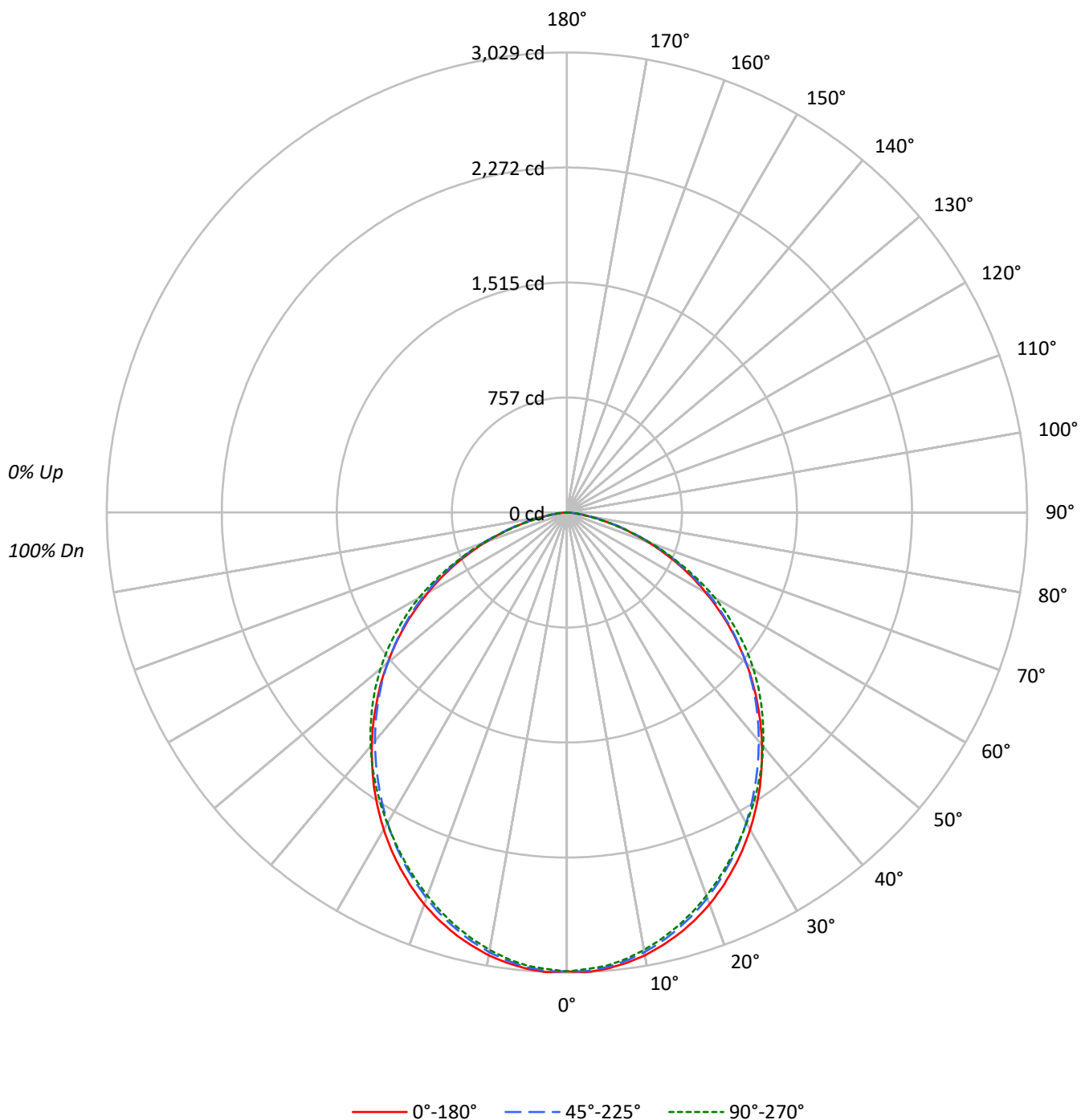
Lumens per Lamp: N/A
Luminaire Lumens: 7426.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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	92	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	61
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	42	42	42	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°	8131	8131	8131
5°	8146	8119	8091
10°	8089	8033	7991
15°	7991	7899	7853
20°	7861	7737	7690
25°	7689	7547	7512
30°	7493	7333	7347
35°	7270	7115	7206
40°	7018	6903	7059
45°	6744	6686	6895
50°	6445	6441	6704
55°	6107	6159	6428
60°	5689	5797	6063
65°	5169	5312	5434
70°	4453	4622	4598
75°	3540	3682	3461
80°	2385	2433	2283
85°	1229	1544	1886

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6895 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	3.8
10°-20°	798.9	10.8
20°-30°	1172.6	15.8
30°-40°	1364.5	18.4
40°-50°	1366.8	18.4
50°-60°	1180.7	15.9
60°-70°	822.2	11.1
70°-80°	370.8	5.0
80°-90°	65.1	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°	2255.9	30.4
0°-40°	3620.4	48.8
0°-60°	6167.9	83.1
0°-90°	7426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7426.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3022	3022	3022	3022	3022	
5°	3016	3003	3006	2991	2995	286
15°	2868	2850	2836	2815	2819	808
25°	2590	2565	2542	2521	2530	1192
35°	2213	2184	2166	2173	2194	1383
45°	1772	1750	1757	1790	1812	1367
55°	1302	1286	1313	1355	1370	1162
65°	812	808	834	850	853	802
75°	340	343	354	342	333	366
85°	40	43	50	58	61	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3021.6	3021.6	3021.6	3021.6	3021.6
2.5°	3029.0	3016.8	3021.6	3010.3	3008.5
5°	3015.5	3002.8	3005.6	2991.2	2995.4
7.5°	2992.1	2978.5	2977.6	2961.8	2965.6
10°	2960.3	2944.3	2939.8	2921.6	2924.4
12.5°	2918.1	2901.3	2892.5	2871.6	2876.3
15°	2868.5	2849.9	2835.5	2814.7	2818.8
17.5°	2811.0	2790.3	2772.9	2748.8	2755.8
20°	2744.9	2722.6	2701.7	2676.2	2685.2
22.5°	2671.0	2647.3	2623.7	2600.4	2609.4
25°	2589.5	2565.4	2541.8	2520.6	2529.9
27.5°	2504.0	2477.0	2453.1	2437.2	2447.7
30°	2411.3	2383.3	2359.9	2349.4	2364.3
32.5°	2313.4	2285.6	2264.5	2262.9	2280.2
35°	2212.9	2183.5	2165.8	2173.4	2193.6
37.5°	2104.7	2079.7	2066.6	2083.2	2103.8
40°	1997.7	1971.5	1965.0	1987.7	2009.4
42.5°	1886.7	1863.5	1862.0	1891.8	1912.0
45°	1772.0	1750.3	1756.8	1789.8	1811.9
47.5°	1659.2	1637.0	1649.6	1686.0	1709.9
50°	1539.4	1521.0	1538.6	1579.7	1601.4
52.5°	1420.1	1402.5	1426.4	1469.8	1490.9
55°	1301.8	1285.5	1312.7	1354.9	1370.1
57.5°	1179.1	1169.1	1197.5	1234.7	1250.7
60°	1057.0	1048.3	1077.2	1112.0	1126.6
62.5°	934.8	929.0	956.9	985.4	990.6
65°	811.8	807.8	834.2	850.0	853.4
67.5°	687.4	687.1	711.5	720.3	720.3
70°	566.0	564.4	587.4	590.4	584.4
72.5°	448.2	450.2	465.6	463.2	453.1
75°	340.5	342.6	354.1	342.3	332.9
77.5°	240.4	242.4	248.3	235.0	229.3
80°	153.9	158.6	157.0	151.3	147.3
82.5°	86.1	91.2	89.7	97.0	100.3
85°	39.8	42.9	50.0	57.8	61.1
87.5°	13.6	16.4	20.5	22.0	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	18.21	19.80	18.58	20.11	20.43	18.60	20.18	18.96	20.50	20.81
	3H	19.66	21.09	20.04	21.41	21.77	20.02	21.44	20.40	21.77	22.13
	4H	20.08	21.42	20.48	21.77	22.14	20.39	21.73	20.79	22.08	22.45
	6H	20.28	21.52	20.69	21.88	22.28	20.55	21.79	20.96	22.15	22.54
	8H	20.31	21.49	20.73	21.88	22.28	20.58	21.76	21.01	22.15	22.55
	12H	20.31	21.43	20.74	21.82	22.24	20.59	21.72	21.02	22.10	22.53
4H	2H	18.80	20.13	19.20	20.48	20.86	19.11	20.45	19.51	20.80	21.17
	3H	20.42	21.53	20.83	21.93	22.33	20.71	21.83	21.12	22.22	22.62
	4H	20.92	21.92	21.36	22.34	22.78	21.17	22.17	21.60	22.59	23.02
	6H	21.20	22.07	21.66	22.51	22.97	21.40	22.27	21.86	22.71	23.17
	8H	21.24	22.05	21.70	22.50	22.96	21.45	22.26	21.91	22.70	23.17
	12H	21.25	21.98	21.73	22.45	22.93	21.48	22.21	21.96	22.68	23.15
8H	4H	21.11	21.92	21.57	22.36	22.83	21.33	22.15	21.80	22.59	23.06
	6H	21.44	22.11	21.93	22.60	23.07	21.61	22.28	22.11	22.77	23.25
	8H	21.50	22.10	22.01	22.61	23.10	21.69	22.29	22.20	22.79	23.28
	12H	21.53	22.06	22.04	22.56	23.12	21.75	22.28	22.26	22.77	23.33
12H	4H	21.10	21.83	21.59	22.31	22.78	21.33	22.06	21.81	22.53	23.00
	6H	21.43	22.03	21.94	22.54	23.03	21.61	22.21	22.12	22.72	23.20
	8H	21.53	22.06	22.04	22.55	23.11	21.71	22.24	22.22	22.73	23.30