

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: P1499143

Luminaire Tested: MAE-G-4-120-1STD-LO-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499143
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-4-120-1STD-LO-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

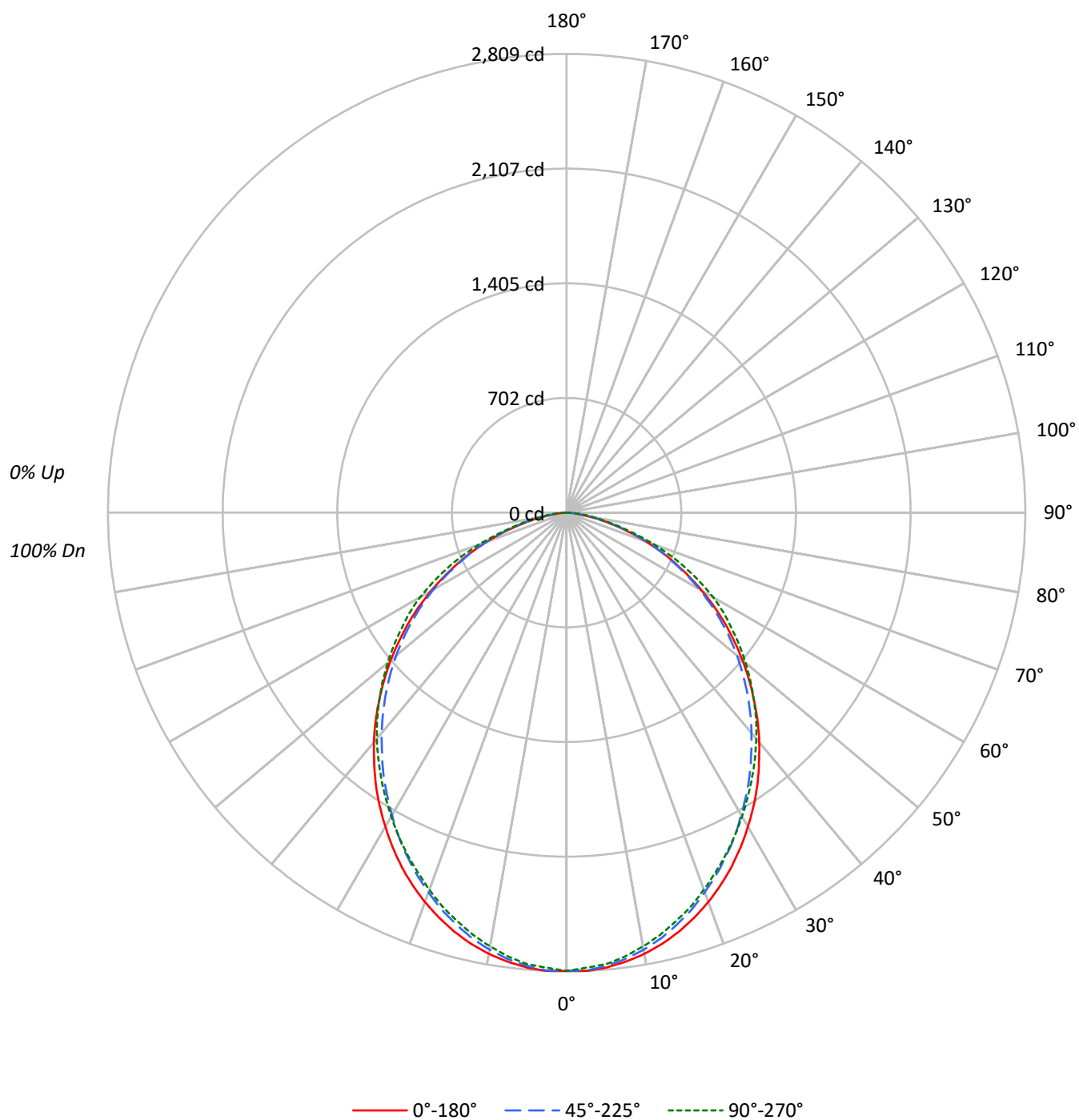
Lumens per Lamp: N/A
Luminaire Lumens: 6759.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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	80	98	90	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3776	3776	3776
5°	3776	3763	3748
10°	3748	3713	3685
15°	3700	3637	3607
20°	3633	3542	3519
25°	3550	3439	3427
30°	3450	3322	3337
35°	3345	3212	3253
40°	3224	3094	3175
45°	3088	2978	3086
50°	2945	2852	2994
55°	2779	2703	2891
60°	2574	2531	2793
65°	2337	2300	2566
70°	2024	2050	2240
75°	1610	1711	1767
80°	1108	1275	1333
85°	616	942	1193

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3088 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.6	3.9
10°-20°	736.6	10.9
20°-30°	1073.3	15.9
30°-40°	1238.8	18.3
40°-50°	1229.3	18.2
50°-60°	1054.6	15.6
60°-70°	740.2	11.0
70°-80°	350.1	5.2
80°-90°	72.4	1.1
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°	2073.6	30.7
0°-40°	3312.3	49.0
0°-60°	5596.3	82.8
0°-90°	6759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2806	2806	2806	2806	2806	
5°	2796	2793	2786	2769	2775	265
15°	2656	2644	2611	2584	2589	748
25°	2391	2362	2317	2298	2309	1100
35°	2036	1998	1956	1962	1980	1272
45°	1623	1590	1565	1598	1622	1252
55°	1185	1154	1152	1200	1232	1058
65°	734	711	722	781	806	727
75°	310	300	329	343	340	335
85°	40	48	61	73	77	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2806.1	2806.1	2806.1	2806.1	2806.1
2.5°	2809.4	2811.4	2806.1	2786.1	2788.8
5°	2796.0	2793.4	2786.1	2768.9	2774.9
7.5°	2773.5	2770.2	2757.0	2737.1	2741.2
10°	2743.6	2736.8	2717.8	2693.4	2697.4
12.5°	2704.8	2696.3	2669.9	2643.1	2647.8
15°	2656.3	2643.8	2610.8	2584.1	2589.4
17.5°	2600.4	2587.1	2547.9	2519.0	2529.1
20°	2537.1	2518.6	2474.0	2447.9	2457.4
22.5°	2467.8	2444.2	2398.2	2374.2	2383.1
25°	2391.3	2362.3	2316.6	2298.5	2308.7
27.5°	2308.7	2277.2	2231.5	2216.1	2230.3
30°	2220.9	2187.2	2138.3	2132.4	2147.9
32.5°	2130.9	2095.5	2048.0	2049.2	2064.8
35°	2036.5	1997.7	1955.5	1961.5	1980.5
37.5°	1935.4	1898.6	1857.6	1876.4	1894.6
40°	1835.5	1797.4	1761.8	1786.6	1807.6
42.5°	1731.7	1695.5	1664.6	1693.4	1717.7
45°	1623.1	1589.8	1564.9	1598.3	1621.8
47.5°	1514.7	1481.3	1464.4	1501.1	1528.0
50°	1406.9	1375.5	1362.5	1403.9	1430.2
52.5°	1294.5	1264.3	1259.4	1302.1	1333.7
55°	1184.6	1153.9	1152.2	1200.1	1232.5
57.5°	1071.5	1048.1	1047.5	1100.2	1139.2
60°	956.4	932.9	940.4	1002.2	1037.8
62.5°	844.6	821.1	829.8	898.1	921.5
65°	734.2	710.7	722.5	780.7	806.1
67.5°	625.9	603.4	623.8	676.5	692.5
70°	514.6	495.0	521.0	563.6	569.5
72.5°	410.8	393.8	425.1	451.6	450.7
75°	309.7	300.0	329.1	343.4	339.9
77.5°	221.4	216.2	241.1	248.1	245.3
80°	143.0	146.3	164.5	168.9	172.1
82.5°	83.1	89.6	103.3	118.4	121.7
85°	39.9	47.8	61.0	72.8	77.3
87.5°	13.9	19.1	25.2	27.8	27.1
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	15.39	16.97	15.75	17.28	17.60	15.75	17.34	16.12	17.65	17.96
	3H	16.82	18.25	17.20	18.57	18.93	17.34	18.76	17.72	19.09	19.45
	4H	17.24	18.58	17.64	18.93	19.31	17.79	19.13	18.19	19.48	19.85
	6H	17.46	18.69	17.87	19.06	19.45	18.03	19.27	18.45	19.64	20.03
	8H	17.49	18.67	17.91	19.06	19.46	18.10	19.28	18.52	19.67	20.07
	12H	17.49	18.62	17.92	19.00	19.43	18.14	19.27	18.57	19.65	20.08
4H	2H	15.92	17.26	16.32	17.61	17.98	16.22	17.56	16.62	17.91	18.28
	3H	17.54	18.65	17.95	19.05	19.45	18.01	19.12	18.42	19.52	19.92
	4H	18.04	19.05	18.48	19.46	19.90	18.57	19.57	19.00	19.98	20.42
	6H	18.33	19.21	18.79	19.65	20.11	18.90	19.77	19.36	20.21	20.67
	8H	18.39	19.20	18.85	19.64	20.11	18.99	19.81	19.46	20.25	20.72
	12H	18.41	19.14	18.89	19.61	20.08	19.07	19.80	19.55	20.28	20.75
8H	4H	18.26	19.07	18.72	19.52	19.98	18.73	19.55	19.19	19.99	20.46
	6H	18.61	19.29	19.11	19.78	20.25	19.14	19.81	19.63	20.30	20.78
	8H	18.69	19.30	19.21	19.81	20.29	19.28	19.88	19.79	20.39	20.88
	12H	18.74	19.28	19.25	19.77	20.33	19.40	19.94	19.91	20.43	20.99
12H	4H	18.27	19.00	18.75	19.47	19.94	18.73	19.46	19.21	19.94	20.41
	6H	18.63	19.23	19.14	19.74	20.22	19.14	19.74	19.65	20.25	20.74
	8H	18.75	19.28	19.25	19.77	20.33	19.32	19.85	19.83	20.34	20.91