

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: P1499320

Luminaire Tested: MAE-G-4-120-2LO-LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2LO-LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

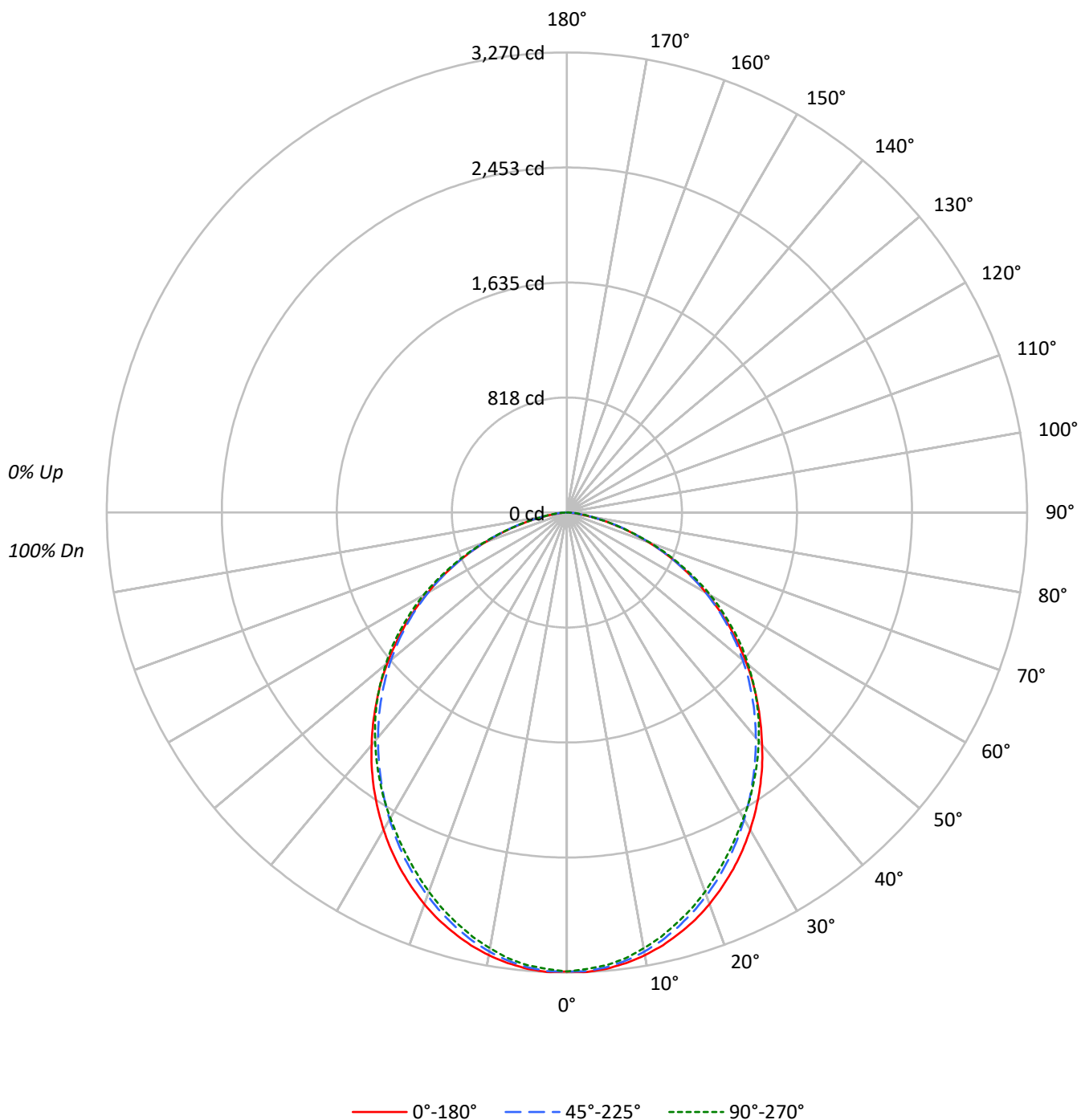
Lumens per Lamp: N/A
Luminaire Lumens: 7942.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 96.2
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4390	4390	4390
5°	4397	4382	4363
10°	4366	4330	4298
15°	4312	4249	4208
20°	4242	4149	4107
25°	4153	4037	3996
30°	4047	3915	3897
35°	3928	3788	3811
40°	3791	3669	3724
45°	3645	3546	3632
50°	3485	3414	3517
55°	3301	3257	3371
60°	3079	3061	3178
65°	2800	2801	2881
70°	2417	2446	2480
75°	1927	1982	1959
80°	1305	1377	1381
85°	670	920	1175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3645 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	3.9
10°-20°	859.3	10.8
20°-30°	1256.5	15.8
30°-40°	1457.3	18.3
40°-50°	1454.7	18.3
50°-60°	1253.1	15.8
60°-70°	874.5	11.0
70°-80°	403.9	5.1
80°-90°	75.7	1.0
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°	2422.7	30.5
0°-40°	3880.0	48.9
0°-60°	6587.8	82.9
0°-90°	7942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3263	3263	3263	3263	3263	
5°	3255	3243	3245	3226	3230	309
15°	3096	3074	3050	3019	3021	873
25°	2797	2765	2719	2688	2692	1287
35°	2391	2350	2306	2305	2320	1495
45°	1916	1879	1864	1889	1909	1478
55°	1407	1379	1388	1422	1437	1257
65°	879	866	880	895	905	870
75°	371	366	381	378	377	399
85°	43	49	60	71	76	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3262.8	3262.8	3262.8	3262.8	3262.8
2.5°	3269.5	3258.8	3262.8	3248.6	3247.7
5°	3255.2	3243.4	3244.6	3225.9	3230.2
7.5°	3230.1	3216.5	3212.8	3191.7	3195.6
10°	3195.5	3178.6	3169.6	3143.5	3145.6
12.5°	3151.0	3131.9	3115.9	3086.0	3089.4
15°	3095.6	3074.2	3050.3	3018.8	3020.8
17.5°	3034.6	3011.3	2977.8	2944.4	2949.8
20°	2962.5	2936.9	2897.4	2862.6	2868.4
22.5°	2882.5	2853.6	2812.4	2777.8	2780.9
25°	2797.1	2765.1	2719.0	2687.8	2691.7
27.5°	2704.4	2668.8	2621.7	2593.9	2600.3
30°	2604.8	2567.3	2519.8	2499.1	2508.3
32.5°	2499.8	2461.4	2415.3	2404.4	2418.2
35°	2391.3	2350.4	2306.3	2305.0	2320.3
37.5°	2278.2	2238.0	2198.4	2206.5	2222.3
40°	2158.5	2120.8	2088.8	2103.1	2120.2
42.5°	2038.2	2002.0	1977.6	1998.5	2017.0
45°	1915.5	1879.4	1863.8	1889.2	1909.0
47.5°	1793.4	1757.1	1749.4	1778.7	1796.4
50°	1664.8	1632.5	1631.0	1662.7	1680.1
52.5°	1535.1	1505.2	1510.8	1544.9	1566.0
55°	1407.1	1379.2	1388.3	1422.3	1437.2
57.5°	1275.4	1253.3	1265.2	1295.4	1310.2
60°	1144.3	1124.0	1137.6	1166.5	1181.1
62.5°	1011.8	994.1	1009.8	1034.0	1043.4
65°	879.4	866.1	879.7	895.4	904.8
67.5°	749.1	736.8	751.5	766.5	770.0
70°	614.5	606.7	621.7	630.6	630.5
72.5°	490.7	483.1	497.3	500.5	498.0
75°	370.6	366.5	381.3	378.0	376.8
77.5°	261.4	263.3	271.0	268.7	268.1
80°	168.4	174.3	177.7	179.4	178.2
82.5°	94.7	100.0	105.2	117.6	122.6
85°	43.4	48.7	59.6	71.3	76.1
87.5°	14.7	18.9	25.1	26.9	25.5
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	16.07	17.65	16.43	17.96	18.28	16.29	17.87	16.66	18.19	18.50
	3H	17.53	18.96	17.91	19.28	19.64	17.76	19.18	18.13	19.51	19.87
	4H	17.96	19.29	18.36	19.64	20.02	18.17	19.51	18.57	19.86	20.24
	6H	18.16	19.40	18.58	19.77	20.16	18.38	19.62	18.79	19.98	20.37
	8H	18.19	19.37	18.62	19.76	20.16	18.43	19.60	18.85	19.99	20.39
	12H	18.19	19.32	18.62	19.70	20.13	18.45	19.58	18.88	19.96	20.39
4H	2H	16.63	17.96	17.02	18.31	18.69	16.81	18.14	17.21	18.49	18.87
	3H	18.27	19.38	18.68	19.78	20.18	18.46	19.57	18.87	19.97	20.37
	4H	18.78	19.78	19.21	20.19	20.63	18.97	19.97	19.40	20.38	20.82
	6H	19.06	19.93	19.52	20.37	20.83	19.25	20.12	19.71	20.57	21.02
	8H	19.11	19.92	19.57	20.36	20.83	19.32	20.14	19.78	20.58	21.04
	12H	19.12	19.85	19.60	20.32	20.79	19.37	20.10	19.85	20.58	21.05
8H	4H	18.97	19.78	19.43	20.22	20.69	19.14	19.95	19.60	20.39	20.86
	6H	19.31	19.98	19.80	20.47	20.94	19.48	20.15	19.98	20.64	21.12
	8H	19.38	19.98	19.89	20.49	20.97	19.59	20.19	20.10	20.70	21.18
	12H	19.41	19.94	19.92	20.43	21.00	19.68	20.21	20.19	20.70	21.26
12H	4H	18.97	19.69	19.45	20.17	20.64	19.14	19.86	19.62	20.34	20.81
	6H	19.31	19.91	19.82	20.42	20.90	19.48	20.08	19.99	20.59	21.08
	8H	19.41	19.94	19.92	20.43	21.00	19.62	20.15	20.13	20.64	21.20

END OF REPORT