

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: P1499242

Luminaire Tested: MAE-G-4-120-2HI-LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499242
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-4-120-2HI-LO-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

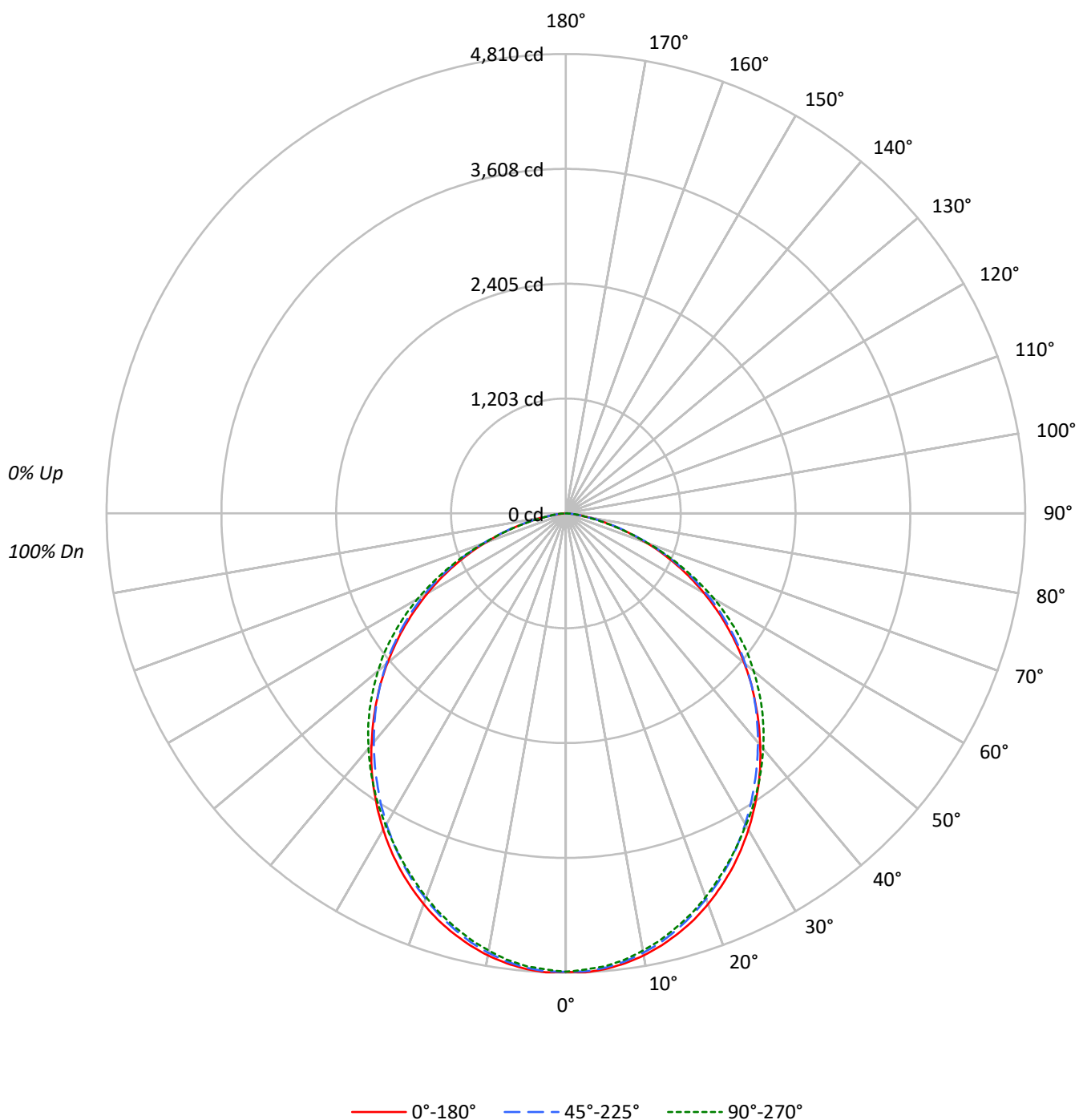
Lumens per Lamp: N/A
Luminaire Lumens: 11803.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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	76	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	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	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	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6458	6458	6458
5°	6468	6450	6427
10°	6422	6384	6352
15°	6341	6280	6247
20°	6235	6150	6124
25°	6101	6001	5983
30°	5943	5836	5859
35°	5764	5661	5754
40°	5560	5497	5646
45°	5342	5327	5530
50°	5104	5139	5373
55°	4831	4911	5157
60°	4502	4623	4839
65°	4085	4221	4313
70°	3516	3635	3604
75°	2791	2857	2686
80°	1870	1849	1699
85°	936	1124	1368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5530 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.9	3.8
10°-20°	1270.1	10.8
20°-30°	1865.5	15.8
30°-40°	2173.1	18.4
40°-50°	2178.6	18.5
50°-60°	1882.3	15.9
60°-70°	1304.5	11.1
70°-80°	579.3	4.9
80°-90°	97.7	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°	3587.5	30.4
0°-40°	5760.6	48.8
0°-60°	9821.5	83.2
0°-90°	11803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4800	4800	4800	4800	4800	
5°	4789	4769	4776	4754	4759	454
15°	4552	4524	4508	4480	4485	1283
25°	4110	4076	4042	4018	4030	1892
35°	3509	3470	3446	3471	3503	2193
45°	2807	2779	2800	2865	2906	2166
55°	2059	2042	2094	2169	2199	1839
65°	1283	1285	1326	1343	1355	1270
75°	537	541	550	526	517	578
85°	61	65	73	84	89	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4799.7	4799.7	4799.7	4799.7	4799.7
2.5°	4810.5	4790.5	4799.7	4783.6	4779.2
5°	4789.0	4768.7	4775.5	4753.7	4758.8
7.5°	4751.9	4730.2	4732.3	4709.2	4714.8
10°	4700.2	4675.1	4672.6	4645.3	4648.9
12.5°	4634.2	4607.7	4599.4	4569.3	4576.1
15°	4551.9	4523.8	4508.3	4479.5	4484.6
17.5°	4461.9	4433.5	4407.7	4378.1	4388.9
20°	4354.4	4325.4	4295.2	4264.0	4276.8
22.5°	4236.0	4204.2	4174.4	4145.0	4155.1
25°	4109.9	4076.3	4041.9	4018.1	4029.8
27.5°	3972.5	3935.4	3903.2	3884.7	3901.1
30°	3824.9	3787.4	3756.3	3749.6	3771.2
32.5°	3669.5	3632.8	3604.5	3614.2	3643.7
35°	3509.3	3470.5	3446.2	3471.0	3503.4
37.5°	3343.1	3305.3	3289.4	3328.7	3362.7
40°	3165.8	3133.3	3129.4	3178.6	3214.4
42.5°	2988.5	2958.5	2966.5	3025.8	3064.5
45°	2807.4	2778.6	2799.5	2865.0	2906.2
47.5°	2628.8	2598.3	2630.4	2701.7	2738.6
50°	2438.4	2414.8	2455.2	2529.2	2567.0
52.5°	2249.0	2227.6	2276.3	2353.7	2396.2
55°	2059.4	2042.0	2093.7	2168.7	2198.6
57.5°	1865.7	1856.2	1909.4	1973.7	2001.6
60°	1673.1	1665.4	1717.9	1773.8	1798.4
62.5°	1478.3	1474.0	1524.1	1565.3	1577.1
65°	1283.0	1285.2	1325.8	1342.8	1354.7
67.5°	1092.6	1092.8	1127.5	1138.0	1139.0
70°	893.8	900.3	924.0	922.6	916.2
72.5°	712.9	715.6	729.3	717.1	706.8
75°	536.9	541.1	549.5	525.8	516.7
77.5°	376.9	386.2	379.9	358.4	350.2
80°	241.4	250.8	238.6	226.0	219.3
82.5°	134.1	139.3	133.2	142.7	146.6
85°	60.6	64.9	72.8	84.3	88.6
87.5°	20.6	24.6	30.2	31.8	29.8
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	17.40	18.99	17.77	19.30	19.62	17.84	19.43	18.21	19.74	20.05
	3H	18.86	20.28	19.23	20.61	20.97	19.22	20.65	19.60	20.97	21.34
	4H	19.27	20.61	19.67	20.96	21.33	19.58	20.91	19.98	21.26	21.64
	6H	19.47	20.71	19.88	21.07	21.46	19.72	20.95	20.13	21.32	21.71
	8H	19.49	20.67	19.92	21.06	21.46	19.74	20.92	20.16	21.31	21.71
	12H	19.49	20.62	19.92	21.00	21.43	19.75	20.87	20.18	21.25	21.68
4H	2H	17.99	19.33	18.39	19.68	20.05	18.35	19.68	18.75	20.03	20.41
	3H	19.62	20.72	20.03	21.12	21.52	19.91	21.02	20.32	21.42	21.82
	4H	20.12	21.11	20.55	21.53	21.97	20.34	21.34	20.77	21.75	22.19
	6H	20.39	21.26	20.84	21.70	22.16	20.55	21.41	21.00	21.86	22.31
	8H	20.43	21.24	20.89	21.68	22.15	20.58	21.39	21.04	21.84	22.30
	12H	20.43	21.16	20.92	21.64	22.11	20.61	21.33	21.09	21.81	22.28
8H	4H	20.29	21.10	20.75	21.54	22.01	20.49	21.30	20.96	21.75	22.21
	6H	20.61	21.28	21.11	21.77	22.25	20.74	21.41	21.24	21.90	22.38
	8H	20.67	21.27	21.18	21.78	22.27	20.80	21.40	21.31	21.91	22.40
	12H	20.70	21.23	21.21	21.72	22.28	20.85	21.38	21.36	21.87	22.44
12H	4H	20.28	21.01	20.76	21.48	21.95	20.49	21.21	20.97	21.69	22.16
	6H	20.60	21.20	21.11	21.71	22.20	20.73	21.33	21.25	21.84	22.33
	8H	20.69	21.22	21.20	21.71	22.28	20.83	21.35	21.33	21.84	22.41