

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: P1499734

Luminaire Tested: MAE-G-4-120-3STD-STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499734
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-4-120-3STD-STD-35-90-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

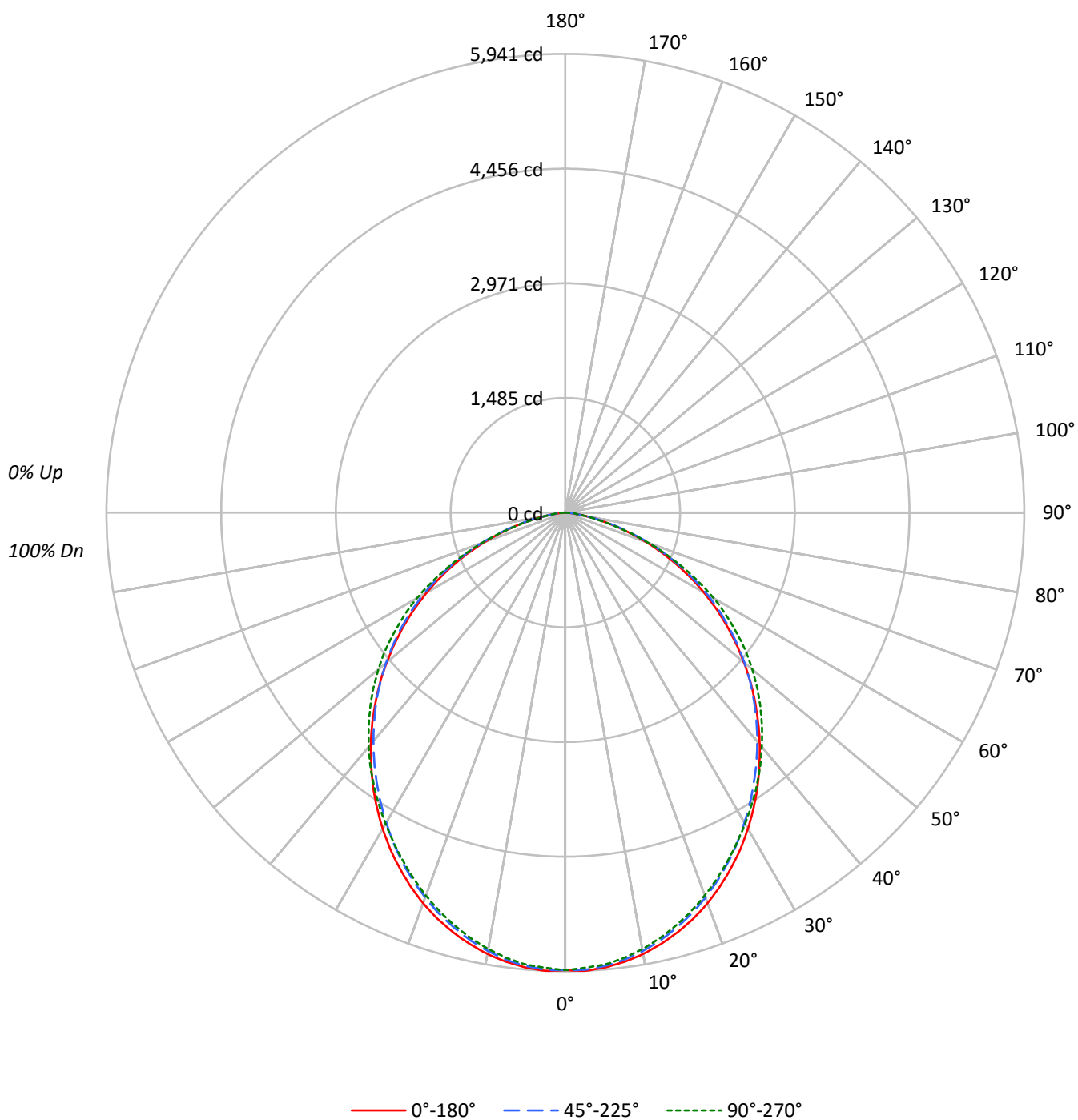
Lumens per Lamp: N/A
Luminaire Lumens: 14588.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 170.9
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	86
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	62
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	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7974	7974	7974
5°	7988	7962	7936
10°	7932	7880	7842
15°	7836	7752	7712
20°	7708	7596	7557
25°	7539	7413	7387
30°	7345	7206	7229
35°	7126	6994	7095
40°	6878	6788	6954
45°	6610	6577	6797
50°	6316	6339	6612
55°	5985	6063	6341
60°	5574	5709	5977
65°	5063	5229	5343
70°	4360	4540	4502
75°	3464	3602	3357
80°	2331	2353	2178
85°	1196	1470	1783

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6797 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.9	3.8
10°-20°	1568.0	10.7
20°-30°	2303.1	15.8
30°-40°	2681.8	18.4
40°-50°	2688.1	18.4
50°-60°	2323.2	15.9
60°-70°	1616.2	11.1
70°-80°	724.6	5.0
80°-90°	125.0	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°	4429.1	30.4
0°-40°	7110.8	48.7
0°-60°	12122.1	83.1
0°-90°	14588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5926	5926	5926	5926	5926	
5°	5914	5889	5895	5868	5876	561
15°	5626	5590	5565	5528	5536	1585
25°	5078	5033	4993	4956	4976	2338
35°	4339	4285	4258	4278	4320	2711
45°	3474	3436	3457	3527	3572	2680
55°	2551	2524	2584	2672	2703	2277
65°	1590	1586	1642	1672	1678	1572
75°	666	672	693	666	646	716
85°	78	83	95	110	116	115
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5926.1	5926.1	5926.1	5926.1	5926.1
2.5°	5940.9	5916.3	5926.1	5904.9	5900.7
5°	5914.2	5888.9	5895.3	5868.2	5876.1
7.5°	5868.4	5841.5	5841.1	5811.5	5818.8
10°	5806.0	5774.4	5767.7	5734.2	5739.8
12.5°	5723.1	5690.5	5676.0	5637.8	5647.3
15°	5625.6	5589.8	5565.2	5527.7	5536.4
17.5°	5512.8	5473.3	5443.6	5399.9	5414.1
20°	5383.1	5340.7	5305.3	5258.9	5277.6
22.5°	5237.9	5193.4	5152.8	5111.4	5130.2
25°	5078.1	5033.2	4993.4	4955.8	4975.5
27.5°	4909.9	4859.9	4820.1	4793.4	4815.1
30°	4727.9	4676.4	4637.9	4621.8	4652.8
32.5°	4535.8	4484.9	4451.2	4452.8	4488.6
35°	4338.6	4285.0	4258.2	4278.0	4319.7
37.5°	4126.5	4081.5	4063.8	4101.7	4144.1
40°	3916.2	3869.4	3864.9	3914.6	3959.3
42.5°	3698.8	3657.6	3663.2	3726.8	3768.4
45°	3473.7	3435.5	3456.7	3526.7	3572.2
47.5°	3252.5	3213.3	3246.4	3322.9	3371.9
50°	3017.4	2985.7	3028.4	3114.0	3158.9
52.5°	2783.8	2753.4	2807.9	2898.2	2941.5
55°	2551.3	2523.9	2584.5	2672.1	2703.2
57.5°	2310.7	2295.4	2357.9	2434.6	2467.1
60°	2071.3	2058.3	2121.4	2192.2	2221.2
62.5°	1831.6	1824.4	1884.2	1941.4	1951.0
65°	1590.3	1586.4	1642.3	1672.5	1678.3
67.5°	1346.2	1349.3	1399.9	1414.9	1414.0
70°	1108.3	1108.3	1154.1	1157.5	1144.3
72.5°	877.2	883.9	913.2	905.2	884.1
75°	666.3	672.4	692.8	665.8	645.8
77.5°	470.1	475.1	483.6	454.2	441.5
80°	300.8	310.0	303.7	289.6	281.1
82.5°	167.9	177.4	171.9	184.7	190.4
85°	77.5	83.0	95.2	109.6	115.5
87.5°	26.4	31.4	39.0	41.6	38.7
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	18.14	19.73	18.51	20.04	20.36	18.56	20.15	18.93	20.46	20.78
	3H	19.59	21.02	19.97	21.34	21.70	19.97	21.39	20.35	21.72	22.08
	4H	20.01	21.35	20.41	21.69	22.07	20.33	21.67	20.73	22.02	22.40
	6H	20.21	21.45	20.62	21.81	22.20	20.48	21.72	20.90	22.09	22.48
	8H	20.23	21.41	20.66	21.80	22.20	20.51	21.69	20.93	22.08	22.48
	12H	20.23	21.36	20.66	21.74	22.17	20.52	21.65	20.95	22.03	22.46
4H	2H	18.73	20.07	19.13	20.42	20.80	19.07	20.41	19.47	20.76	21.13
	3H	20.35	21.46	20.76	21.86	22.26	20.66	21.77	21.07	22.17	22.57
	4H	20.86	21.86	21.29	22.27	22.71	21.11	22.11	21.54	22.52	22.96
	6H	21.13	22.00	21.59	22.44	22.90	21.33	22.20	21.78	22.64	23.10
	8H	21.17	21.98	21.63	22.42	22.89	21.37	22.18	21.83	22.62	23.09
	12H	21.18	21.91	21.66	22.38	22.85	21.40	22.12	21.88	22.60	23.07
8H	4H	21.04	21.85	21.50	22.29	22.76	21.27	22.08	21.73	22.53	22.99
	6H	21.36	22.03	21.86	22.52	23.00	21.54	22.20	22.03	22.69	23.17
	8H	21.43	22.03	21.94	22.54	23.02	21.60	22.20	22.11	22.71	23.20
	12H	21.46	21.99	21.97	22.48	23.04	21.66	22.19	22.17	22.68	23.24
12H	4H	21.03	21.76	21.51	22.24	22.71	21.27	21.99	21.75	22.47	22.94
	6H	21.36	21.96	21.87	22.46	22.95	21.53	22.13	22.04	22.64	23.12
	8H	21.45	21.98	21.96	22.47	23.04	21.63	22.15	22.13	22.65	23.21

END OF REPORT