

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: P1499172

Luminaire Tested: MAE-G-4-120-1STD-STD-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499172
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-STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

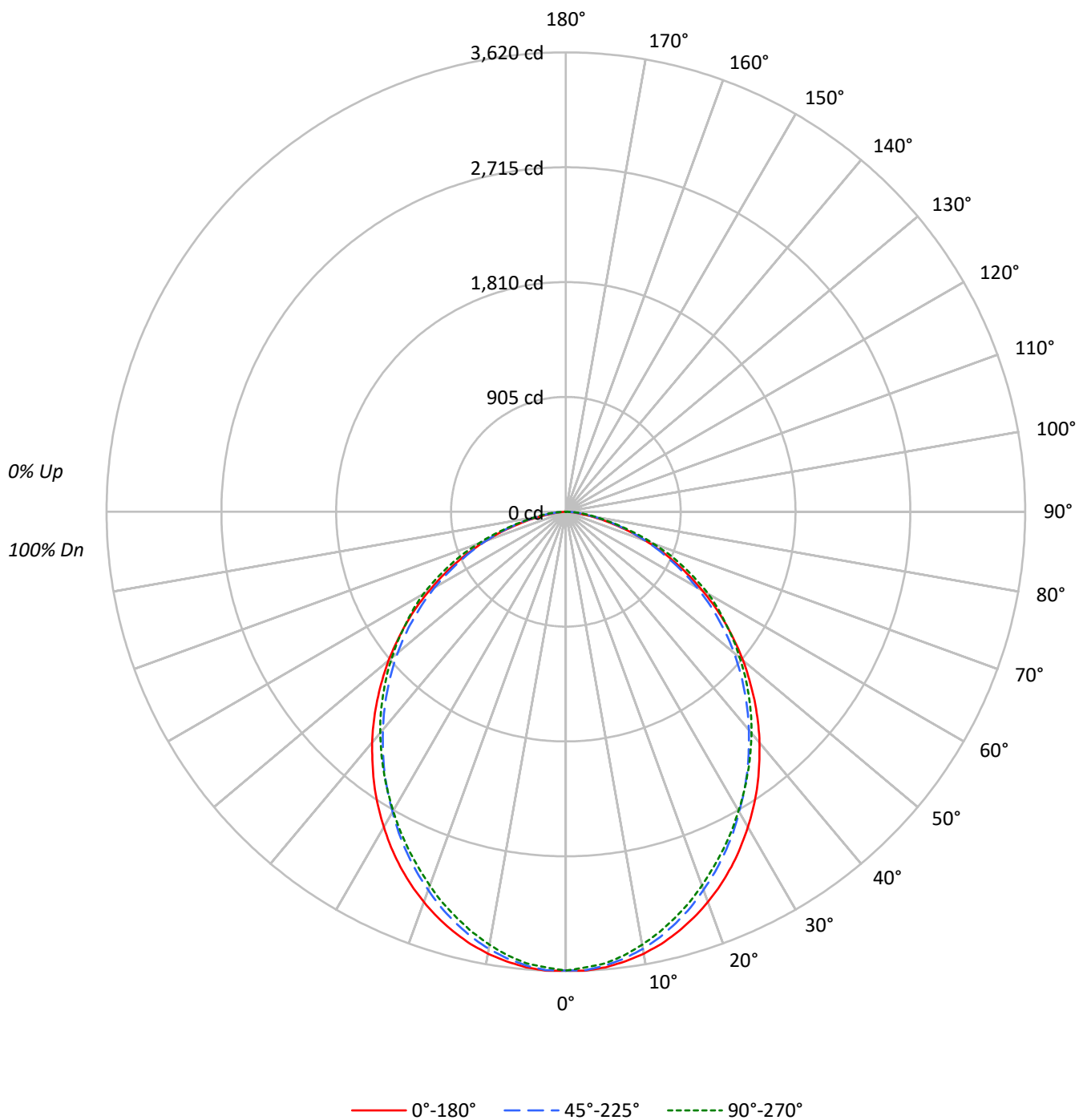
Lumens per Lamp: N/A
Luminaire Lumens: 8652.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	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	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4865	4865	4865
5°	4866	4848	4824
10°	4831	4778	4733
15°	4770	4672	4616
20°	4687	4542	4488
25°	4582	4401	4357
30°	4457	4244	4229
35°	4324	4096	4109
40°	4171	3940	3998
45°	4000	3786	3875
50°	3817	3622	3746
55°	3606	3430	3611
60°	3346	3210	3491
65°	3045	2925	3246
70°	2642	2630	2893
75°	2109	2238	2375
80°	1459	1729	1884
85°	815	1318	1715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4000 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.4	3.9
10°-20°	946.1	10.9
20°-30°	1374.3	15.9
30°-40°	1581.7	18.3
40°-50°	1565.5	18.1
50°-60°	1340.4	15.5
60°-70°	945.4	10.9
70°-80°	459.3	5.3
80°-90°	100.0	1.2
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°	2659.8	30.7
0°-40°	4241.5	49.0
0°-60°	7147.3	82.6
0°-90°	8652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3616	3616	3616	3616	3616	
5°	3603	3600	3589	3564	3572	342
15°	3425	3406	3354	3309	3314	965
25°	3087	3042	2964	2926	2935	1421
35°	2633	2571	2494	2484	2502	1645
45°	2102	2045	1990	2014	2036	1621
55°	1537	1485	1462	1506	1539	1372
65°	956	916	919	989	1020	946
75°	406	388	430	457	457	438
85°	53	64	85	104	111	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3615.5	3615.5	3615.5	3615.5	3615.5
2.5°	3619.7	3622.7	3615.5	3588.4	3593.1
5°	3603.0	3600.0	3589.2	3563.8	3571.8
7.5°	3574.2	3569.3	3549.9	3519.9	3525.2
10°	3536.1	3526.2	3497.4	3460.0	3464.4
12.5°	3486.6	3473.4	3432.8	3390.3	3395.0
15°	3424.6	3405.6	3354.0	3309.2	3314.0
17.5°	3353.6	3331.9	3269.3	3220.9	3231.1
20°	3273.1	3243.6	3171.8	3125.8	3134.6
22.5°	3184.4	3147.3	3072.1	3027.5	3034.6
25°	3086.6	3041.7	2964.4	2926.4	2934.8
27.5°	2981.4	2931.9	2852.4	2817.8	2830.5
30°	2869.0	2815.8	2731.7	2707.8	2721.7
32.5°	2753.8	2697.2	2614.1	2598.8	2612.7
35°	2632.6	2570.8	2493.5	2484.3	2501.8
37.5°	2502.9	2443.5	2367.2	2373.2	2389.5
40°	2374.6	2313.0	2243.3	2256.4	2276.2
42.5°	2241.0	2181.7	2118.1	2136.4	2159.4
45°	2101.9	2045.3	1989.7	2014.2	2036.2
47.5°	1962.3	1906.2	1861.1	1889.7	1915.8
50°	1823.7	1769.9	1730.3	1765.0	1789.7
52.5°	1678.2	1626.9	1598.6	1635.3	1666.9
55°	1537.2	1485.0	1462.3	1505.8	1539.3
57.5°	1391.5	1348.7	1329.0	1380.3	1422.1
60°	1243.5	1201.4	1192.9	1257.7	1297.3
62.5°	1098.9	1057.5	1053.8	1129.7	1158.1
65°	956.5	915.7	918.8	988.8	1019.5
67.5°	815.5	778.0	795.1	862.3	882.8
70°	671.6	638.2	668.5	725.1	735.3
72.5°	536.8	508.6	549.5	589.2	591.7
75°	405.7	388.2	430.5	456.7	456.9
77.5°	290.4	281.2	320.1	338.1	339.1
80°	188.3	192.4	223.1	237.1	243.2
82.5°	109.8	119.5	143.4	167.2	173.5
85°	52.8	64.4	85.4	103.6	111.1
87.5°	18.2	26.0	35.6	39.5	38.4
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	16.29	17.88	16.66	18.19	18.51	16.46	18.05	16.83	18.36	18.68
	3H	17.74	19.17	18.12	19.50	19.86	18.11	19.53	18.49	19.86	20.22
	4H	18.17	19.51	18.57	19.86	20.24	18.61	19.95	19.01	20.30	20.67
	6H	18.39	19.63	18.80	19.99	20.39	18.91	20.14	19.32	20.51	20.90
	8H	18.43	19.61	18.85	20.00	20.40	18.99	20.17	19.42	20.56	20.96
	12H	18.43	19.56	18.86	19.94	20.37	19.05	20.18	19.48	20.57	21.00
4H	2H	16.81	18.15	17.21	18.50	18.87	16.95	18.29	17.35	18.63	19.01
	3H	18.44	19.56	18.85	19.96	20.36	18.80	19.91	19.21	20.31	20.71
	4H	18.96	19.96	19.39	20.38	20.81	19.41	20.42	19.84	20.83	21.27
	6H	19.26	20.13	19.71	20.57	21.03	19.81	20.68	20.27	21.13	21.58
	8H	19.31	20.13	19.78	20.57	21.04	19.93	20.75	20.39	21.19	21.66
	12H	19.34	20.07	19.82	20.54	21.01	20.03	20.76	20.51	21.24	21.71
8H	4H	19.18	20.00	19.64	20.44	20.91	19.59	20.41	20.05	20.85	21.32
	6H	19.55	20.22	20.04	20.71	21.19	20.07	20.75	20.57	21.24	21.71
	8H	19.64	20.24	20.15	20.75	21.24	20.25	20.85	20.76	21.36	21.85
	12H	19.69	20.22	20.20	20.72	21.28	20.41	20.94	20.91	21.43	21.99
12H	4H	19.19	19.93	19.68	20.40	20.87	19.59	20.32	20.07	20.80	21.27
	6H	19.57	20.18	20.08	20.68	21.17	20.08	20.68	20.59	21.19	21.68
	8H	19.70	20.23	20.21	20.72	21.29	20.30	20.83	20.81	21.32	21.89