

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: P1499154

Luminaire Tested: MAE-G-4-120-1STD-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499154
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-30-90
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

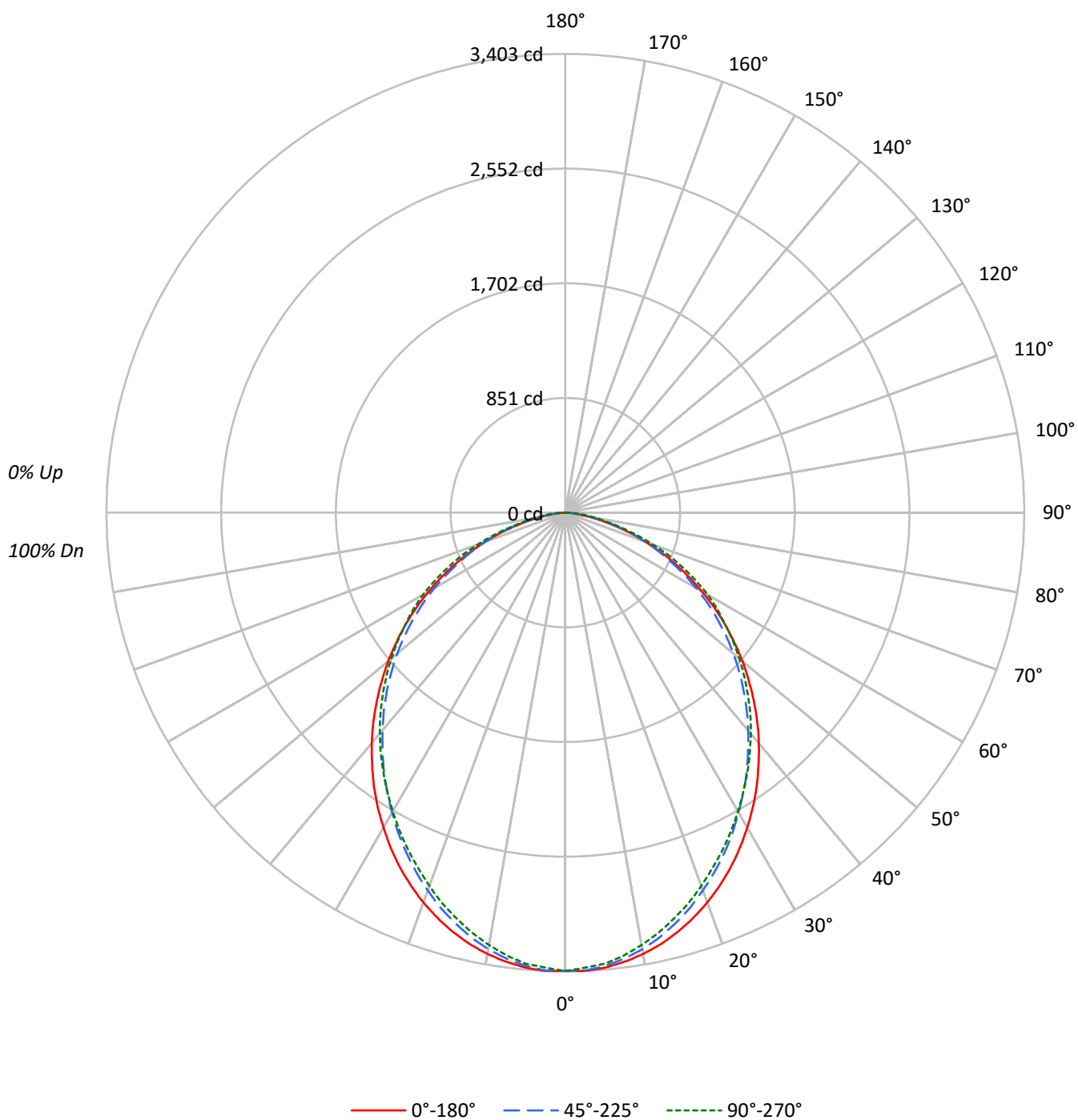
Lumens per Lamp: N/A
Luminaire Lumens: 8135.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	82	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	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	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4574	4574	4574
5°	4576	4558	4536
10°	4542	4493	4450
15°	4485	4393	4340
20°	4406	4270	4220
25°	4309	4138	4097
30°	4191	3990	3976
35°	4066	3851	3864
40°	3922	3705	3759
45°	3761	3560	3643
50°	3589	3405	3522
55°	3390	3225	3395
60°	3146	3018	3282
65°	2863	2750	3052
70°	2485	2472	2720
75°	1983	2104	2233
80°	1371	1626	1772
85°	767	1240	1612

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.1	3.9
10°-20°	889.6	10.9
20°-30°	1292.2	15.9
30°-40°	1487.1	18.3
40°-50°	1471.9	18.1
50°-60°	1260.3	15.5
60°-70°	888.9	10.9
70°-80°	431.9	5.3
80°-90°	94.0	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°	2500.9	30.7
0°-40°	3988.0	49.0
0°-60°	6720.2	82.6
0°-90°	8135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3400	3400	3400	3400	3400	
5°	3388	3385	3375	3351	3358	321
15°	3220	3202	3154	3112	3116	907
25°	2902	2860	2787	2752	2759	1336
35°	2475	2417	2344	2336	2352	1546
45°	1976	1923	1871	1894	1914	1524
55°	1445	1396	1375	1416	1447	1290
65°	899	861	864	930	958	890
75°	382	365	405	430	430	412
85°	50	61	80	97	104	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3399.5	3399.5	3399.5	3399.5	3399.5
2.5°	3403.4	3406.2	3399.5	3374.0	3378.4
5°	3387.8	3384.9	3374.8	3350.9	3358.5
7.5°	3360.7	3356.1	3337.9	3309.6	3314.5
10°	3324.8	3315.5	3288.5	3253.2	3257.3
12.5°	3278.3	3265.9	3227.7	3187.7	3192.1
15°	3220.1	3202.1	3153.6	3111.5	3116.0
17.5°	3153.2	3132.7	3074.0	3028.4	3038.1
20°	3077.5	3049.8	2982.2	2939.0	2947.3
22.5°	2994.1	2959.3	2888.4	2846.7	2853.2
25°	2902.3	2859.9	2787.3	2751.5	2759.4
27.5°	2803.2	2756.7	2682.0	2649.3	2661.3
30°	2697.6	2647.5	2568.4	2545.9	2558.9
32.5°	2589.2	2536.0	2457.8	2443.4	2456.5
35°	2475.3	2417.2	2344.5	2335.9	2352.2
37.5°	2353.4	2297.5	2225.8	2231.3	2246.8
40°	2232.7	2174.9	2109.3	2121.6	2140.1
42.5°	2107.1	2051.3	1991.5	2008.7	2030.4
45°	1976.3	1923.1	1870.8	1893.8	1914.5
47.5°	1845.0	1792.4	1749.8	1776.8	1801.4
50°	1714.7	1664.1	1626.9	1659.6	1682.8
52.5°	1577.9	1529.7	1503.1	1537.5	1567.3
55°	1445.3	1396.4	1374.9	1415.9	1447.4
57.5°	1308.3	1268.1	1249.6	1297.8	1337.1
60°	1169.2	1129.5	1121.6	1182.6	1219.8
62.5°	1033.2	994.4	990.8	1062.1	1088.9
65°	899.3	860.9	863.9	929.7	958.5
67.5°	766.7	731.4	747.6	810.8	830.0
70°	631.6	600.1	628.5	681.8	691.4
72.5°	504.7	478.2	516.7	554.0	556.4
75°	381.5	365.1	404.8	429.5	429.6
77.5°	273.0	264.4	301.0	317.9	318.9
80°	177.0	180.9	209.8	222.9	228.7
82.5°	103.2	112.3	134.9	157.2	163.2
85°	49.7	60.6	80.3	97.4	104.4
87.5°	17.1	24.4	33.5	37.2	36.2
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	16.08	17.66	16.45	17.98	18.29	16.25	17.83	16.61	18.15	18.46
	3H	17.53	18.95	17.91	19.28	19.64	17.89	19.32	18.27	19.65	20.01
	4H	17.96	19.30	18.36	19.64	20.02	18.40	19.73	18.79	20.08	20.46
	6H	18.18	19.42	18.59	19.78	20.17	18.69	19.93	19.10	20.30	20.69
	8H	18.21	19.39	18.64	19.78	20.18	18.78	19.96	19.20	20.35	20.75
	12H	18.22	19.35	18.65	19.73	20.16	18.84	19.97	19.27	20.35	20.78
4H	2H	16.59	17.93	16.99	18.28	18.66	16.73	18.07	17.13	18.42	18.80
	3H	18.23	19.35	18.64	19.74	20.14	18.58	19.70	18.99	20.10	20.50
	4H	18.74	19.75	19.18	20.16	20.60	19.20	20.20	19.63	20.62	21.05
	6H	19.04	19.92	19.50	20.36	20.82	19.60	20.47	20.05	20.91	21.37
	8H	19.10	19.92	19.56	20.36	20.83	19.72	20.54	20.18	20.98	21.44
	12H	19.12	19.85	19.60	20.33	20.80	19.82	20.55	20.30	21.02	21.49
8H	4H	18.97	19.78	19.43	20.23	20.69	19.38	20.20	19.84	20.64	21.10
	6H	19.34	20.01	19.83	20.50	20.98	19.86	20.53	20.35	21.02	21.50
	8H	19.42	20.03	19.93	20.54	21.02	20.03	20.64	20.55	21.15	21.63
	12H	19.48	20.01	19.98	20.50	21.06	20.19	20.73	20.70	21.22	21.78
12H	4H	18.98	19.71	19.46	20.19	20.66	19.38	20.11	19.86	20.59	21.06
	6H	19.36	19.96	19.87	20.47	20.96	19.86	20.47	20.37	20.98	21.46
	8H	19.48	20.02	19.99	20.51	21.07	20.08	20.62	20.59	21.11	21.67