

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: P1498836

Luminaire Tested: MAE-G-2-120-3STD-HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498836
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-2-120-3STD-HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

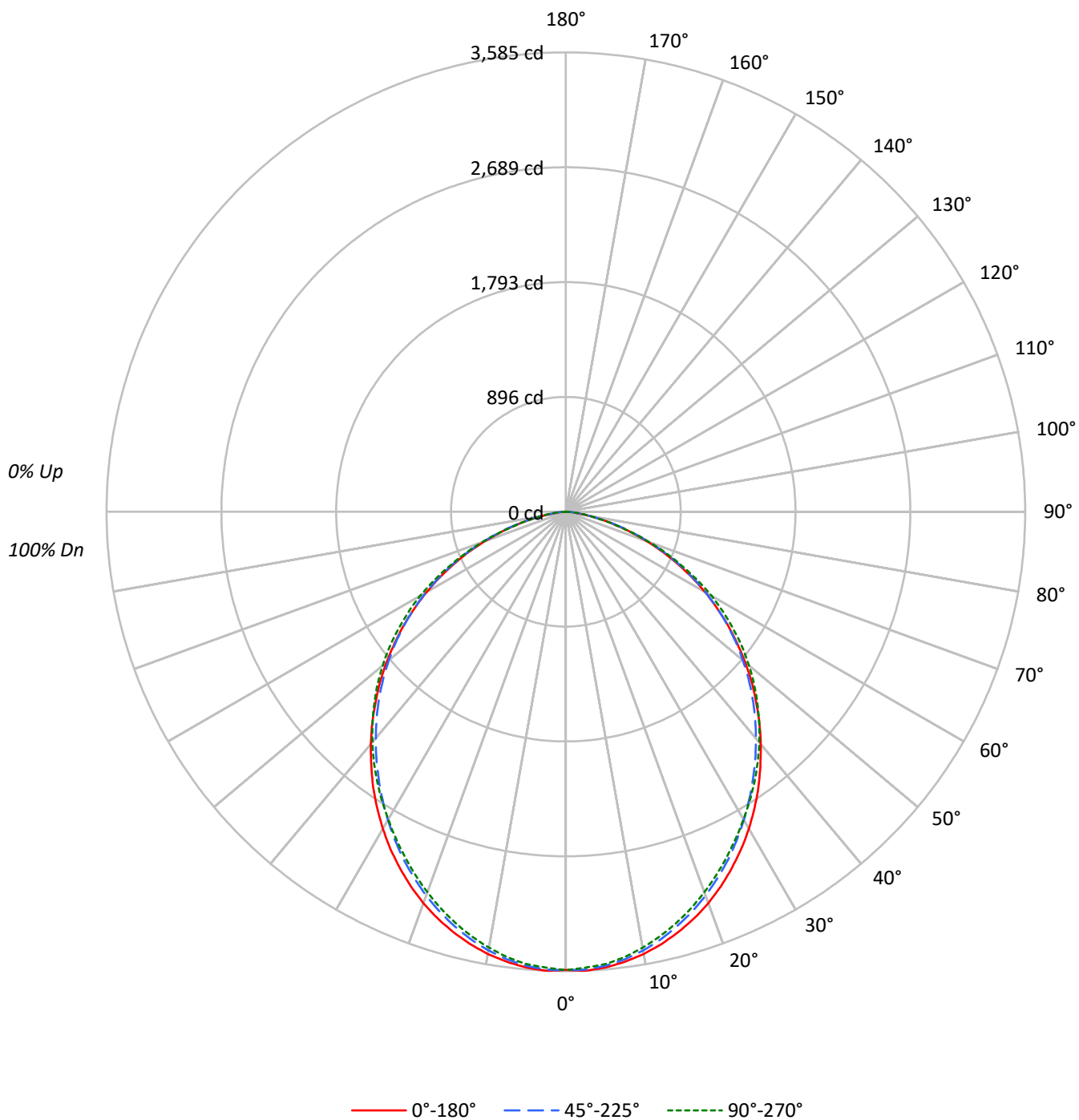
Lumens per Lamp: N/A
Luminaire Lumens: 8751.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 94.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9624	9624	9624
5°	9641	9608	9571
10°	9575	9500	9440
15°	9460	9332	9259
20°	9307	9128	9050
25°	9105	8893	8825
30°	8875	8630	8616
35°	8612	8365	8436
40°	8316	8107	8249
45°	7994	7844	8045
50°	7641	7550	7809
55°	7243	7212	7484
60°	6750	6786	7071
65°	6139	6222	6382
70°	5297	5443	5467
75°	4217	4391	4218
80°	2853	2986	2909
85°	1485	1964	2458

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8045 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	3.8
10°-20°	943.7	10.8
20°-30°	1382.5	15.8
30°-40°	1605.7	18.3
40°-50°	1605.6	18.3
50°-60°	1385.2	15.8
60°-70°	967.2	11.1
70°-80°	443.3	5.1
80°-90°	81.2	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°	2662.8	30.4
0°-40°	4268.5	48.8
0°-60°	7259.3	83.0
0°-90°	8751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3576	3576	3576	3576	3576	
5°	3569	3555	3557	3538	3543	339
15°	3396	3373	3350	3320	3324	957
25°	3067	3034	2995	2963	2972	1412
35°	2622	2580	2546	2547	2568	1638
45°	2100	2067	2061	2092	2114	1621
55°	1544	1517	1537	1580	1595	1378
65°	964	953	977	997	1002	953
75°	406	405	422	414	406	436
85°	48	53	64	75	80	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3576.5	3576.5	3576.5	3576.5	3576.5
2.5°	3584.9	3572.0	3576.5	3561.7	3560.4
5°	3569.1	3555.1	3556.9	3538.0	3543.3
7.5°	3541.5	3526.0	3522.7	3501.5	3505.9
10°	3504.1	3485.2	3476.7	3451.6	3454.7
12.5°	3454.4	3434.0	3418.9	3389.8	3394.7
15°	3395.6	3372.7	3349.6	3319.5	3323.5
17.5°	3327.8	3301.7	3273.5	3238.9	3246.2
20°	3250.0	3221.0	3187.4	3151.1	3160.3
22.5°	3162.7	3131.4	3093.6	3059.6	3068.2
25°	3066.6	3033.9	2995.2	2963.2	2972.2
27.5°	2965.6	2928.9	2888.7	2863.0	2873.1
30°	2856.1	2817.5	2777.5	2757.7	2772.7
32.5°	2740.6	2701.6	2663.8	2654.2	2671.8
35°	2621.7	2580.4	2546.4	2547.3	2568.0
37.5°	2494.0	2457.5	2428.3	2439.7	2460.7
40°	2367.3	2329.4	2307.7	2326.1	2348.3
42.5°	2236.1	2201.2	2185.7	2212.2	2232.7
45°	2100.5	2067.1	2061.1	2091.6	2114.0
47.5°	1966.7	1933.1	1934.5	1969.0	1993.6
50°	1825.3	1795.8	1803.5	1843.5	1865.4
52.5°	1683.8	1655.7	1671.2	1714.1	1735.9
55°	1543.8	1517.3	1537.3	1579.6	1595.3
57.5°	1398.7	1379.7	1401.9	1439.8	1456.8
60°	1254.2	1236.9	1260.9	1297.7	1313.9
62.5°	1109.5	1095.7	1120.2	1151.9	1158.9
65°	964.1	952.6	977.1	997.3	1002.3
67.5°	816.8	810.4	834.9	848.8	850.1
70°	673.2	665.7	691.8	699.7	694.8
72.5°	533.4	531.2	551.3	553.6	544.3
75°	405.6	404.7	422.3	414.2	405.7
77.5°	286.8	287.4	299.3	289.5	285.3
80°	184.1	189.5	192.7	190.7	187.7
82.5°	103.5	110.1	112.7	124.2	129.1
85°	48.1	52.9	63.6	74.8	79.6
87.5°	16.3	20.3	26.4	28.4	26.7
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	18.80	20.38	19.16	20.70	21.01	19.10	20.68	19.46	20.99	21.31
	3H	20.25	21.68	20.63	22.01	22.37	20.55	21.97	20.93	22.30	22.66
	4H	20.68	22.01	21.08	22.36	22.74	20.95	22.29	21.35	22.63	23.01
	6H	20.88	22.12	21.29	22.48	22.88	21.14	22.37	21.55	22.74	23.13
	8H	20.91	22.09	21.33	22.48	22.88	21.18	22.35	21.60	22.74	23.14
	12H	20.91	22.04	21.34	22.42	22.85	21.20	22.33	21.63	22.71	23.14
4H	2H	19.37	20.71	19.77	21.06	21.43	19.61	20.95	20.01	21.30	21.67
	3H	21.00	22.11	21.41	22.51	22.91	21.25	22.37	21.66	22.76	23.16
	4H	21.51	22.51	21.94	22.93	23.36	21.74	22.74	22.17	23.16	23.60
	6H	21.79	22.66	22.25	23.10	23.56	22.01	22.88	22.46	23.32	23.78
	8H	21.83	22.65	22.30	23.09	23.56	22.06	22.88	22.53	23.32	23.79
	12H	21.85	22.58	22.33	23.05	23.52	22.11	22.84	22.59	23.31	23.78
8H	4H	21.70	22.51	22.16	22.96	23.42	21.91	22.72	22.37	23.17	23.63
	6H	22.04	22.71	22.53	23.20	23.67	22.23	22.90	22.72	23.39	23.87
	8H	22.11	22.71	22.62	23.22	23.70	22.32	22.92	22.83	23.43	23.92
	12H	22.14	22.67	22.65	23.16	23.73	22.40	22.93	22.91	23.42	23.99
12H	4H	21.70	22.43	22.18	22.90	23.37	21.91	22.64	22.39	23.11	23.58
	6H	22.03	22.64	22.55	23.15	23.63	22.22	22.83	22.74	23.34	23.82
	8H	22.14	22.67	22.65	23.16	23.72	22.35	22.88	22.86	23.37	23.94