

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: P1498674

Luminaire Tested: MAE-G-2-120-3HI-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498674
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-2-120-3HI-STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

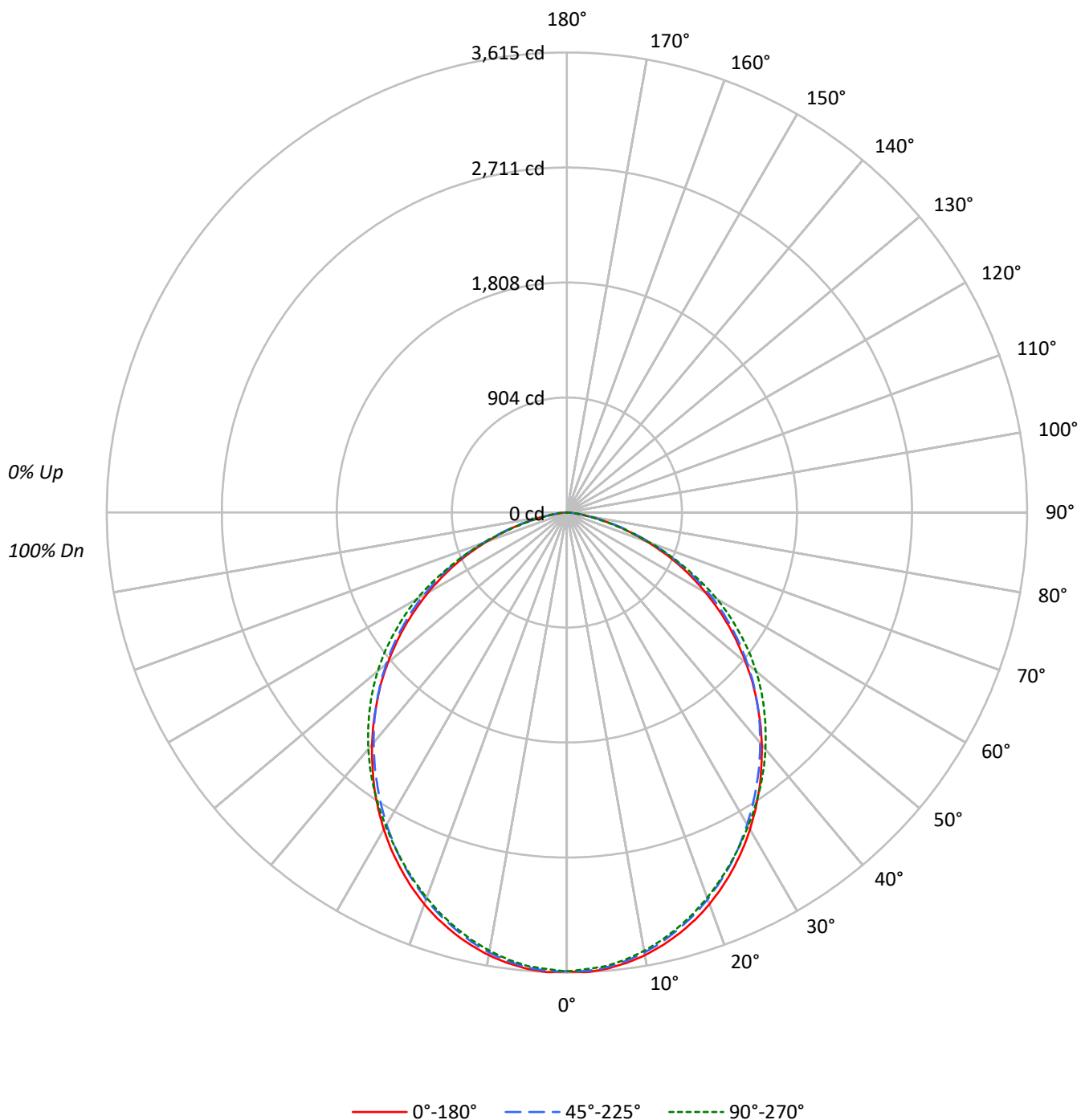
Lumens per Lamp: N/A
Luminaire Lumens: 8899.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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	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	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	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	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9704	9704	9704
5°	9722	9692	9662
10°	9654	9595	9554
15°	9536	9445	9406
20°	9379	9262	9226
25°	9172	9045	9027
30°	8936	8798	8843
35°	8668	8544	8688
40°	8365	8298	8524
45°	8037	8045	8339
50°	7679	7757	8119
55°	7276	7422	7788
60°	6774	6991	7334
65°	6150	6401	6531
70°	5293	5541	5464
75°	4200	4365	4017
80°	2819	2803	2534
85°	1439	1707	2041

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8339 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.6	3.8
10°-20°	955.2	10.7
20°-30°	1404.6	15.8
30°-40°	1637.2	18.4
40°-50°	1642.7	18.5
50°-60°	1420.8	16.0
60°-70°	986.9	11.1
70°-80°	438.4	4.9
80°-90°	73.7	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°	2699.4	30.3
0°-40°	4336.6	48.7
0°-60°	7400.0	83.2
0°-90°	8899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3606	3606	3606	3606	3606	
5°	3599	3583	3588	3572	3577	341
15°	3423	3402	3390	3370	3376	965
25°	3089	3064	3046	3027	3040	1422
35°	2639	2610	2601	2618	2645	1649
45°	2112	2093	2114	2161	2191	1630
55°	1551	1538	1582	1640	1660	1384
65°	966	967	1005	1023	1026	955
75°	404	410	420	400	386	434
85°	47	49	55	63	66	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3606.0	3606.0	3606.0	3606.0	3606.0
2.5°	3615.3	3599.5	3606.0	3594.1	3590.9
5°	3598.9	3582.9	3587.8	3572.3	3576.9
7.5°	3570.9	3554.3	3555.3	3538.8	3543.2
10°	3532.9	3513.6	3511.5	3493.1	3496.6
12.5°	3482.4	3462.8	3456.6	3435.9	3442.0
15°	3423.0	3401.7	3390.3	3370.5	3376.3
17.5°	3354.1	3331.1	3317.4	3294.2	3303.4
20°	3275.1	3250.7	3234.4	3209.5	3221.8
22.5°	3186.6	3161.5	3142.3	3120.8	3133.4
25°	3089.2	3064.3	3046.3	3027.2	3040.4
27.5°	2986.8	2959.1	2941.5	2929.3	2943.9
30°	2875.9	2847.5	2831.3	2825.5	2846.0
32.5°	2758.7	2731.2	2717.9	2723.4	2746.8
35°	2638.6	2609.7	2600.9	2617.5	2644.8
37.5°	2509.4	2486.1	2483.0	2510.8	2538.6
40°	2381.4	2357.0	2362.2	2397.3	2426.4
42.5°	2249.1	2228.2	2239.5	2283.2	2310.4
45°	2112.0	2093.1	2113.9	2161.4	2191.2
47.5°	1977.6	1957.9	1985.8	2037.1	2069.1
50°	1834.3	1819.3	1852.9	1909.8	1939.4
52.5°	1692.4	1677.9	1718.4	1778.1	1806.3
55°	1550.8	1538.3	1582.0	1639.7	1660.0
57.5°	1404.3	1399.2	1443.6	1493.9	1514.7
60°	1258.7	1254.7	1299.0	1344.6	1362.7
62.5°	1112.9	1112.4	1153.7	1189.6	1194.9
65°	965.8	967.4	1005.2	1022.8	1025.7
67.5°	817.4	822.7	856.1	863.2	861.8
70°	672.7	675.7	704.3	703.9	694.5
72.5°	532.1	538.7	555.5	547.7	533.5
75°	404.0	409.6	419.8	400.0	386.4
77.5°	284.8	288.9	291.2	269.9	260.8
80°	181.9	187.6	180.9	169.6	163.5
82.5°	101.3	106.6	100.8	107.0	110.0
85°	46.6	49.3	55.3	63.1	66.1
87.5°	15.9	18.6	22.6	24.0	22.2
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	18.83	20.41	19.19	20.72	21.04	19.30	20.88	19.66	21.19	21.51
	3H	20.27	21.69	20.65	22.02	22.38	20.68	22.11	21.06	22.43	22.80
	4H	20.69	22.02	21.08	22.37	22.75	21.03	22.37	21.43	22.72	23.09
	6H	20.88	22.12	21.30	22.49	22.88	21.17	22.41	21.58	22.77	23.16
	8H	20.91	22.09	21.33	22.47	22.87	21.19	22.37	21.61	22.76	23.16
	12H	20.90	22.03	21.33	22.41	22.84	21.19	22.32	21.62	22.70	23.13
4H	2H	19.42	20.76	19.82	21.11	21.48	19.80	21.14	20.20	21.49	21.86
	3H	21.04	22.15	21.45	22.55	22.95	21.37	22.48	21.78	22.88	23.28
	4H	21.54	22.54	21.97	22.95	23.39	21.80	22.80	22.23	23.22	23.65
	6H	21.81	22.68	22.27	23.12	23.58	22.00	22.87	22.46	23.31	23.77
	8H	21.85	22.66	22.31	23.10	23.57	22.04	22.85	22.50	23.29	23.76
	12H	21.86	22.58	22.34	23.06	23.53	22.06	22.79	22.54	23.26	23.73
8H	4H	21.72	22.53	22.18	22.97	23.44	21.96	22.77	22.42	23.21	23.68
	6H	22.04	22.71	22.53	23.20	23.67	22.20	22.87	22.70	23.36	23.84
	8H	22.10	22.70	22.61	23.21	23.69	22.26	22.86	22.77	23.37	23.85
	12H	22.13	22.66	22.64	23.15	23.71	22.31	22.84	22.82	23.33	23.89
12H	4H	21.71	22.44	22.19	22.91	23.38	21.95	22.68	22.43	23.16	23.63
	6H	22.03	22.63	22.54	23.14	23.62	22.19	22.79	22.70	23.30	23.79
	8H	22.12	22.65	22.63	23.14	23.70	22.28	22.81	22.79	23.30	23.86