

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: P1498656

Luminaire Tested: MAE-G-2-120-3HI-LO-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498656
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-LO-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

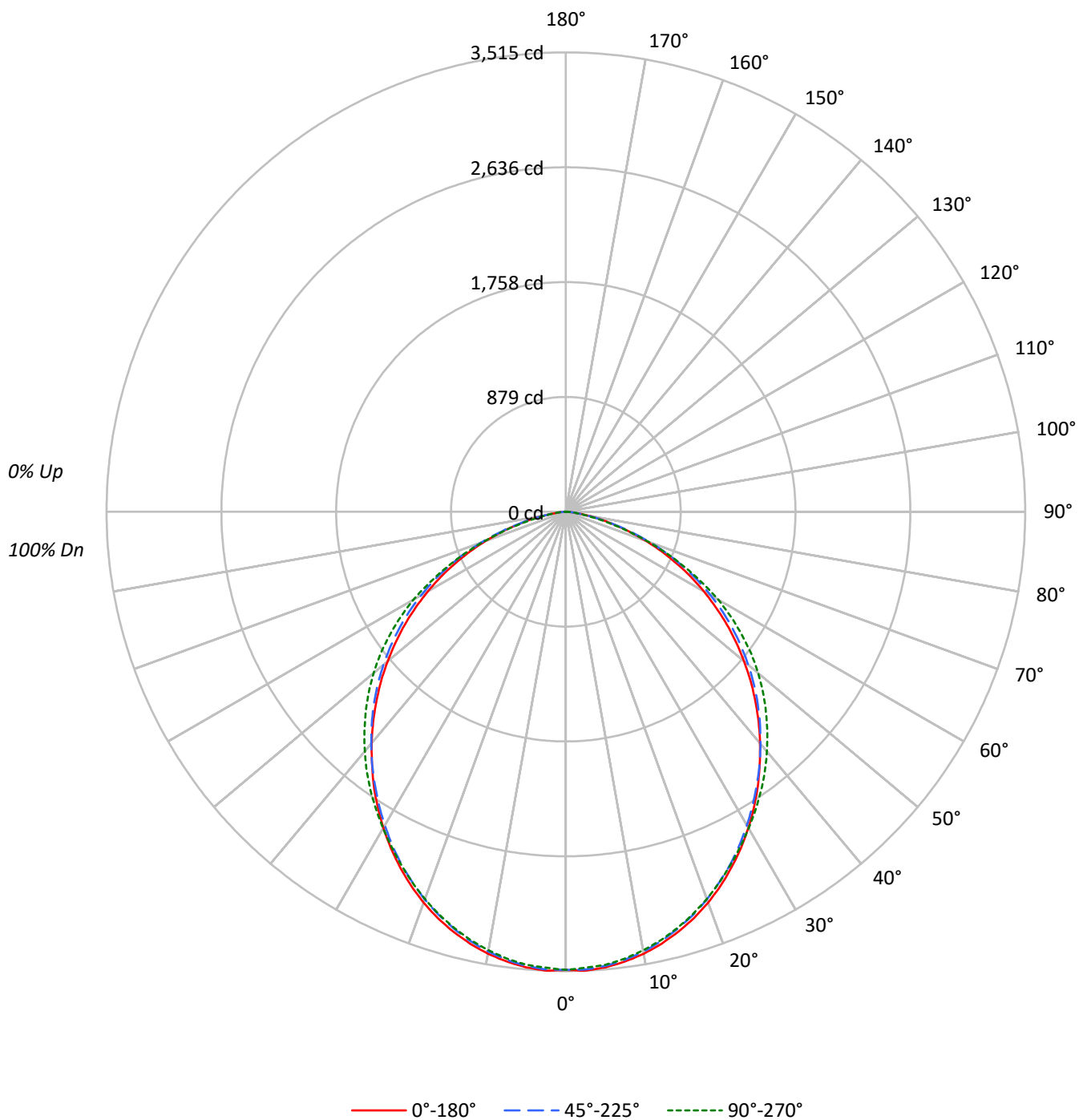
Lumens per Lamp: N/A
Luminaire Lumens: 8696.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 92.3
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

TEST NUMBER: P1498656

CATALOG NUMBER: MAE-G-2-120-3HI-LO-35-90

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	93	90		91
2	100	93	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	57		67	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	40	35	60	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9433	9433	9433
5°	9451	9423	9399
10°	9384	9337	9310
15°	9269	9203	9186
20°	9114	9039	9029
25°	8911	8839	8853
30°	8679	8609	8690
35°	8417	8372	8556
40°	8121	8141	8409
45°	7800	7902	8242
50°	7449	7628	8040
55°	7056	7305	7716
60°	6566	6885	7252
65°	5955	6299	6406
70°	5116	5419	5283
75°	4052	4206	3763
80°	2706	2600	2221
85°	1365	1497	1726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8242 cd/sqm

TEST NUMBER: P1498656

CATALOG NUMBER: MAE-G-2-120-3HI-LO-35-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.3	3.8
10°-20°	930.8	10.7
20°-30°	1371.7	15.8
30°-40°	1602.4	18.4
40°-50°	1611.1	18.5
50°-60°	1395.6	16.0
60°-70°	966.4	11.1
70°-80°	421.1	4.8
80°-90°	66.7	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°	2632.8	30.3
0°-40°	4235.2	48.7
0°-60°	7241.9	83.3
0°-90°	8696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3505	3505	3505	3505	3505	
5°	3499	3482	3488	3476	3480	332
15°	3327	3308	3304	3291	3297	938
25°	3001	2982	2977	2966	2982	1382
35°	2562	2542	2548	2574	2604	1601
45°	2050	2040	2076	2132	2166	1581
55°	1504	1500	1557	1622	1645	1343
65°	935	944	989	1004	1006	924
75°	390	399	404	378	362	419
85°	44	46	48	54	56	66
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-3HI-LO-35-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3505.3	3505.3	3505.3	3505.3	3505.3
2.5°	3514.7	3497.8	3505.3	3495.5	3491.2
5°	3498.6	3482.0	3488.4	3475.6	3479.6
7.5°	3471.3	3454.5	3458.2	3445.2	3449.3
10°	3434.2	3415.3	3417.0	3403.3	3407.1
12.5°	3384.8	3366.4	3365.8	3350.8	3357.5
15°	3327.0	3307.5	3303.5	3290.7	3297.2
17.5°	3259.9	3239.5	3235.1	3219.4	3229.4
20°	3182.7	3161.9	3156.5	3139.4	3153.0
22.5°	3096.3	3075.7	3068.4	3055.3	3069.8
25°	3001.3	2981.9	2977.0	2966.4	2981.7
27.5°	2901.4	2880.0	2876.8	2873.2	2889.9
30°	2793.2	2772.0	2770.6	2773.6	2796.8
32.5°	2679.0	2659.4	2661.3	2675.6	2701.9
35°	2562.1	2541.7	2548.4	2574.0	2604.4
37.5°	2436.2	2421.5	2434.5	2471.2	2502.3
40°	2311.7	2296.2	2317.5	2361.6	2393.8
42.5°	2183.1	2171.2	2198.4	2251.1	2281.6
45°	2049.5	2040.1	2076.5	2132.5	2165.8
47.5°	1919.2	1908.5	1951.4	2011.5	2046.7
50°	1779.4	1773.7	1822.0	1887.2	1920.4
52.5°	1642.0	1636.1	1690.4	1758.4	1789.6
55°	1503.9	1500.3	1557.1	1622.3	1644.6
57.5°	1361.5	1364.9	1421.4	1477.5	1500.0
60°	1220.0	1224.2	1279.2	1328.7	1347.5
62.5°	1078.3	1085.9	1136.1	1173.2	1177.4
65°	935.2	944.4	989.2	1004.5	1006.1
67.5°	790.9	803.1	840.7	843.4	840.5
70°	650.2	659.6	688.8	683.2	671.5
72.5°	513.7	525.6	539.8	526.1	509.5
75°	389.7	399.1	404.5	378.4	361.9
77.5°	274.2	280.3	276.6	249.2	237.5
80°	174.6	180.4	167.8	151.2	143.3
82.5°	96.6	101.0	90.3	93.1	94.8
85°	44.2	45.6	48.5	54.0	55.9
87.5°	15.1	16.9	19.6	20.5	18.9
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	18.73	20.31	19.09	20.62	20.94	19.30	20.88	19.67	21.20	21.51
	3H	20.16	21.59	20.54	21.91	22.28	20.65	22.07	21.03	22.40	22.76
	4H	20.57	21.91	20.97	22.26	22.64	20.97	22.31	21.37	22.65	23.03
	6H	20.77	22.00	21.18	22.37	22.76	21.08	22.31	21.49	22.68	23.07
	8H	20.79	21.97	21.22	22.36	22.76	21.09	22.26	21.51	22.65	23.05
	12H	20.79	21.91	21.22	22.29	22.72	21.08	22.21	21.51	22.59	23.02
4H	2H	19.34	20.67	19.74	21.02	21.40	19.80	21.14	20.20	21.49	21.86
	3H	20.94	22.05	21.35	22.45	22.85	21.33	22.44	21.74	22.84	23.24
	4H	21.44	22.44	21.87	22.85	23.29	21.73	22.72	22.16	23.14	23.58
	6H	21.70	22.57	22.16	23.01	23.47	21.89	22.76	22.35	23.20	23.66
	8H	21.74	22.55	22.20	22.99	23.46	21.91	22.72	22.37	23.16	23.63
	12H	21.75	22.47	22.23	22.95	23.42	21.92	22.65	22.40	23.12	23.59
8H	4H	21.61	22.42	22.07	22.86	23.33	21.87	22.68	22.34	23.13	23.59
	6H	21.92	22.59	22.42	23.08	23.56	22.08	22.74	22.57	23.23	23.71
	8H	21.98	22.58	22.49	23.09	23.57	22.11	22.71	22.62	23.22	23.71
	12H	22.01	22.53	22.52	23.03	23.59	22.15	22.67	22.65	23.16	23.73
12H	4H	21.60	22.33	22.08	22.80	23.27	21.87	22.59	22.35	23.07	23.54
	6H	21.91	22.51	22.42	23.02	23.50	22.06	22.66	22.57	23.17	23.66
	8H	22.00	22.52	22.51	23.02	23.58	22.13	22.66	22.64	23.15	23.71