

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: P1498671

Luminaire Tested: MAE-G-2-120-3HI-LO-50

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498671
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-50
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

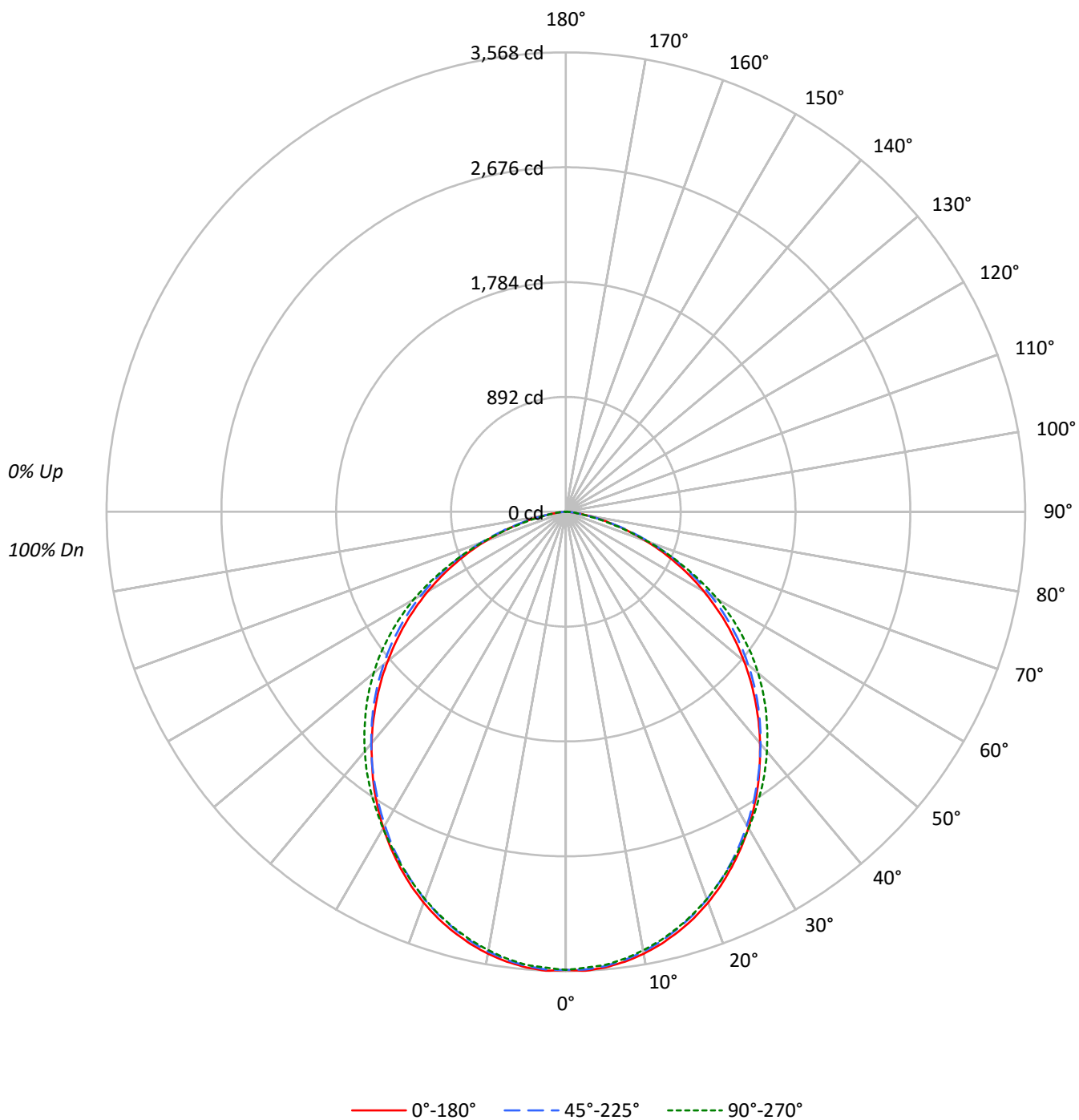
Lumens per Lamp: N/A
Luminaire Lumens: 8828.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P1498671

CATALOG NUMBER: MAE-G-2-120-3HI-LO-50

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°	9576	9576	9576
5°	9594	9566	9542
10°	9526	9479	9451
15°	9409	9343	9325
20°	9253	9176	9167
25°	9047	8973	8988
30°	8811	8740	8822
35°	8544	8499	8685
40°	8244	8265	8537
45°	7918	8022	8367
50°	7562	7743	8162
55°	7163	7416	7833
60°	6666	6989	7363
65°	6045	6394	6504
70°	5194	5502	5364
75°	4114	4270	3820
80°	2746	2639	2256
85°	1386	1522	1751

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8367 cd/sqm

TEST NUMBER: P1498671

CATALOG NUMBER: MAE-G-2-120-3HI-LO-50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.3	3.8
10°-20°	944.9	10.7
20°-30°	1392.5	15.8
30°-40°	1626.7	18.4
40°-50°	1635.6	18.5
50°-60°	1416.8	16.0
60°-70°	981.1	11.1
70°-80°	427.5	4.8
80°-90°	67.7	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°	2672.8	30.3
0°-40°	4299.4	48.7
0°-60°	7351.8	83.3
0°-90°	8828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3558	3558	3558	3558	3558	
5°	3552	3535	3541	3528	3532	337
15°	3377	3358	3354	3341	3347	952
25°	3047	3027	3022	3011	3027	1403
35°	2601	2580	2587	2613	2644	1625
45°	2081	2071	2108	2165	2199	1606
55°	1527	1523	1581	1647	1670	1363
65°	949	959	1004	1020	1021	938
75°	396	405	411	384	367	425
85°	45	46	49	55	57	67
90°	0	0	0	0	0	



TEST NUMBER: P1498671

CATALOG NUMBER: MAE-G-2-120-3HI-LO-50

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3558.5	3558.5	3558.5	3558.5	3558.5
2.5°	3568.1	3550.9	3558.5	3548.5	3544.2
5°	3551.8	3534.8	3541.4	3528.3	3532.5
7.5°	3524.1	3507.0	3510.7	3497.4	3501.7
10°	3486.3	3467.1	3468.9	3454.9	3458.7
12.5°	3436.2	3417.5	3416.9	3401.6	3408.5
15°	3377.4	3357.7	3353.6	3340.6	3347.3
17.5°	3309.3	3288.6	3284.1	3268.4	3278.5
20°	3231.0	3209.8	3204.3	3187.0	3201.0
22.5°	3143.4	3122.4	3115.0	3101.7	3116.4
25°	3046.9	3027.2	3022.2	3011.4	3027.0
27.5°	2945.4	2923.7	2920.4	2916.7	2933.8
30°	2835.7	2814.1	2812.8	2815.7	2839.2
32.5°	2719.7	2699.7	2701.7	2716.2	2742.9
35°	2601.0	2580.3	2587.1	2613.1	2643.9
37.5°	2473.2	2458.3	2471.4	2508.8	2540.3
40°	2346.8	2331.1	2352.7	2397.4	2430.1
42.5°	2216.2	2204.2	2231.8	2285.3	2316.2
45°	2080.6	2071.1	2107.9	2164.9	2198.7
47.5°	1948.4	1937.5	1981.1	2042.0	2077.8
50°	1806.4	1800.6	1849.6	1915.9	1949.6
52.5°	1666.9	1661.0	1716.1	1785.0	1816.7
55°	1526.8	1523.1	1580.7	1646.9	1669.5
57.5°	1382.2	1385.7	1442.9	1499.9	1522.6
60°	1238.5	1242.8	1298.6	1348.9	1368.0
62.5°	1094.7	1102.4	1153.3	1191.1	1195.3
65°	949.4	958.8	1004.2	1019.8	1021.4
67.5°	802.9	815.3	853.5	856.2	853.2
70°	660.2	669.7	699.3	693.6	681.7
72.5°	521.5	533.5	548.0	534.1	517.2
75°	395.7	405.1	410.7	384.1	367.4
77.5°	278.4	284.6	280.9	253.0	241.1
80°	177.2	183.1	170.3	153.4	145.6
82.5°	98.2	102.5	91.7	94.5	96.2
85°	44.9	46.3	49.3	54.8	56.7
87.5°	15.4	17.1	19.9	20.8	19.1
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	18.78	20.36	19.14	20.68	20.99	19.35	20.94	19.72	21.25	21.57
	3H	20.22	21.64	20.59	21.97	22.33	20.70	22.13	21.08	22.45	22.81
	4H	20.63	21.96	21.03	22.31	22.69	21.02	22.36	21.42	22.71	23.08
	6H	20.82	22.06	21.23	22.42	22.81	21.13	22.37	21.54	22.73	23.12
	8H	20.84	22.02	21.27	22.41	22.81	21.14	22.32	21.56	22.71	23.11
	12H	20.84	21.97	21.27	22.35	22.78	21.14	22.26	21.57	22.65	23.07
4H	2H	19.39	20.73	19.79	21.07	21.45	19.85	21.19	20.25	21.54	21.91
	3H	21.00	22.11	21.41	22.50	22.90	21.38	22.49	21.79	22.89	23.29
	4H	21.49	22.49	21.92	22.90	23.34	21.78	22.78	22.21	23.19	23.63
	6H	21.76	22.62	22.21	23.07	23.52	21.94	22.81	22.40	23.25	23.71
	8H	21.79	22.60	22.25	23.04	23.51	21.96	22.77	22.42	23.22	23.68
	12H	21.80	22.52	22.28	23.00	23.47	21.97	22.70	22.46	23.18	23.65
8H	4H	21.66	22.47	22.13	22.92	23.38	21.93	22.74	22.39	23.18	23.65
	6H	21.98	22.64	22.47	23.13	23.61	22.13	22.80	22.62	23.29	23.76
	8H	22.03	22.63	22.54	23.14	23.63	22.16	22.76	22.68	23.27	23.76
	12H	22.06	22.59	22.57	23.08	23.64	22.20	22.73	22.71	23.22	23.78
12H	4H	21.66	22.38	22.14	22.86	23.33	21.92	22.64	22.40	23.12	23.59
	6H	21.96	22.56	22.47	23.07	23.56	22.11	22.71	22.63	23.22	23.71
	8H	22.05	22.58	22.56	23.07	23.63	22.18	22.71	22.69	23.20	23.76