

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: P1498845

Luminaire Tested: MAE-G-2-120-3STD-LO-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498845
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-LO-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

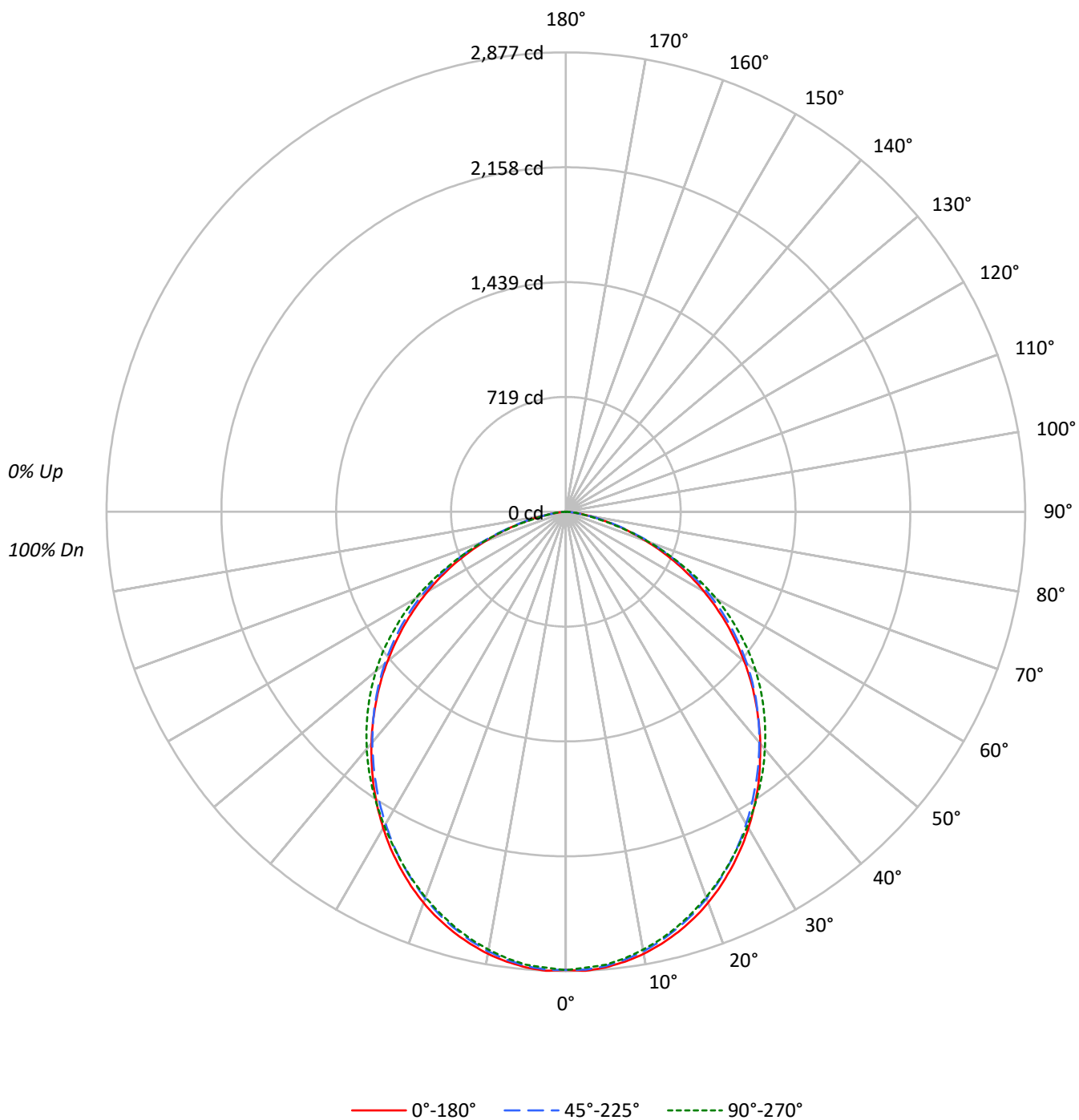
Lumens per Lamp: N/A
Luminaire Lumens: 7094.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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

TEST NUMBER: P1498845

CATALOG NUMBER: MAE-G-2-120-3STD-LO-30

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	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	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	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7723	7723	7723
5°	7737	7713	7692
10°	7683	7639	7610
15°	7589	7523	7497
20°	7464	7381	7359
25°	7299	7210	7204
30°	7110	7016	7062
35°	6896	6817	6943
40°	6655	6623	6815
45°	6393	6424	6671
50°	6108	6196	6500
55°	5786	5930	6236
60°	5386	5586	5868
65°	4888	5114	5213
70°	4205	4419	4342
75°	3335	3464	3160
80°	2235	2199	1954
85°	1136	1318	1559

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6671 cd/sqm

TEST NUMBER: P1498845

CATALOG NUMBER: MAE-G-2-120-3STD-LO-30

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	3.8
10°-20°	760.8	10.7
20°-30°	1119.5	15.8
30°-40°	1305.8	18.4
40°-50°	1311.0	18.5
50°-60°	1134.5	16.0
60°-70°	787.2	11.1
70°-80°	347.6	4.9
80°-90°	57.4	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°	2150.6	30.3
0°-40°	3456.3	48.7
0°-60°	5901.8	83.2
0°-90°	7094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2870	2870	2870	2870	2870	
5°	2864	2851	2856	2844	2847	272
15°	2724	2708	2700	2686	2691	768
25°	2458	2440	2428	2415	2426	1132
35°	2099	2078	2075	2091	2114	1312
45°	1680	1667	1688	1728	1753	1296
55°	1233	1226	1264	1312	1329	1101
65°	768	771	803	817	819	759
75°	321	326	333	316	304	345
85°	37	39	43	48	50	55
90°	0	0	0	0	0	

TEST NUMBER: P1498845

CATALOG NUMBER: MAE-G-2-120-3STD-LO-30

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2869.9	2869.9	2869.9	2869.9	2869.9
2.5°	2877.4	2864.4	2869.9	2860.8	2857.9
5°	2864.2	2851.3	2855.5	2843.8	2847.4
7.5°	2842.0	2828.5	2830.1	2817.7	2821.2
10°	2811.6	2796.3	2795.6	2782.0	2784.9
12.5°	2771.4	2756.0	2752.4	2737.3	2742.4
15°	2724.0	2707.5	2700.2	2686.1	2691.0
17.5°	2669.2	2651.4	2642.9	2626.2	2633.7
20°	2606.3	2587.6	2577.3	2559.3	2569.6
22.5°	2535.8	2516.7	2504.4	2489.3	2499.9
25°	2458.2	2439.5	2428.4	2415.3	2426.4
27.5°	2376.5	2355.8	2345.5	2337.9	2350.2
30°	2288.1	2267.2	2258.0	2255.6	2272.7
32.5°	2194.9	2174.8	2168.1	2174.6	2194.2
35°	2099.3	2078.3	2075.1	2090.8	2113.5
37.5°	1996.3	1979.8	1981.5	2006.0	2029.2
40°	1894.5	1877.1	1885.4	1915.9	1940.1
42.5°	1789.1	1774.7	1787.8	1825.2	1848.0
45°	1680.0	1667.2	1687.9	1728.3	1753.0
47.5°	1573.0	1559.5	1585.8	1629.3	1655.8
50°	1458.9	1449.2	1480.0	1527.9	1552.6
52.5°	1346.1	1336.7	1372.7	1422.8	1446.3
55°	1233.3	1225.5	1264.0	1312.3	1329.1
57.5°	1116.7	1114.8	1153.6	1195.4	1212.5
60°	1000.7	999.7	1038.0	1075.7	1090.4
62.5°	884.8	886.5	921.9	951.1	955.1
65°	767.7	770.9	803.1	816.6	818.7
67.5°	649.6	655.6	683.4	688.0	686.5
70°	534.4	538.6	561.6	559.9	551.8
72.5°	422.5	429.3	442.1	434.3	422.2
75°	320.8	326.2	333.2	315.6	303.9
77.5°	226.0	229.8	230.1	211.4	203.5
80°	144.2	148.8	141.9	131.4	126.1
82.5°	80.2	84.2	78.2	82.4	84.3
85°	36.8	38.7	42.7	48.3	50.5
87.5°	12.6	14.5	17.3	18.4	17.0
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	18.03	19.62	18.40	19.93	20.24	18.54	20.12	18.90	20.43	20.75
	3H	19.47	20.90	19.85	21.23	21.59	19.91	21.33	20.29	21.66	22.02
	4H	19.89	21.23	20.29	21.57	21.95	20.25	21.59	20.65	21.94	22.31
	6H	20.09	21.32	20.50	21.69	22.08	20.38	21.61	20.79	21.98	22.37
	8H	20.11	21.29	20.53	21.68	22.08	20.39	21.57	20.82	21.96	22.36
	12H	20.10	21.23	20.53	21.61	22.04	20.40	21.52	20.83	21.91	22.33
4H	2H	18.63	19.97	19.03	20.32	20.69	19.04	20.38	19.44	20.72	21.10
	3H	20.25	21.36	20.66	21.75	22.16	20.60	21.71	21.01	22.10	22.50
	4H	20.74	21.74	21.18	22.16	22.60	21.02	22.01	21.45	22.43	22.87
	6H	21.01	21.88	21.47	22.32	22.78	21.21	22.07	21.66	22.52	22.97
	8H	21.05	21.86	21.51	22.31	22.77	21.23	22.04	21.70	22.49	22.95
	12H	21.06	21.78	21.54	22.26	22.73	21.25	21.98	21.73	22.46	22.93
8H	4H	20.92	21.73	21.38	22.18	22.64	21.17	21.98	21.63	22.42	22.89
	6H	21.24	21.91	21.73	22.40	22.87	21.40	22.07	21.89	22.56	23.03
	8H	21.30	21.90	21.81	22.41	22.89	21.45	22.05	21.96	22.56	23.04
	12H	21.33	21.86	21.84	22.35	22.91	21.49	22.02	22.00	22.51	23.08
12H	4H	20.91	21.64	21.40	22.12	22.59	21.16	21.89	21.64	22.37	22.84
	6H	21.23	21.83	21.74	22.34	22.82	21.39	21.99	21.90	22.50	22.98
	8H	21.32	21.85	21.83	22.34	22.90	21.47	22.00	21.98	22.49	23.05