

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: P1498884

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498884
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-STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

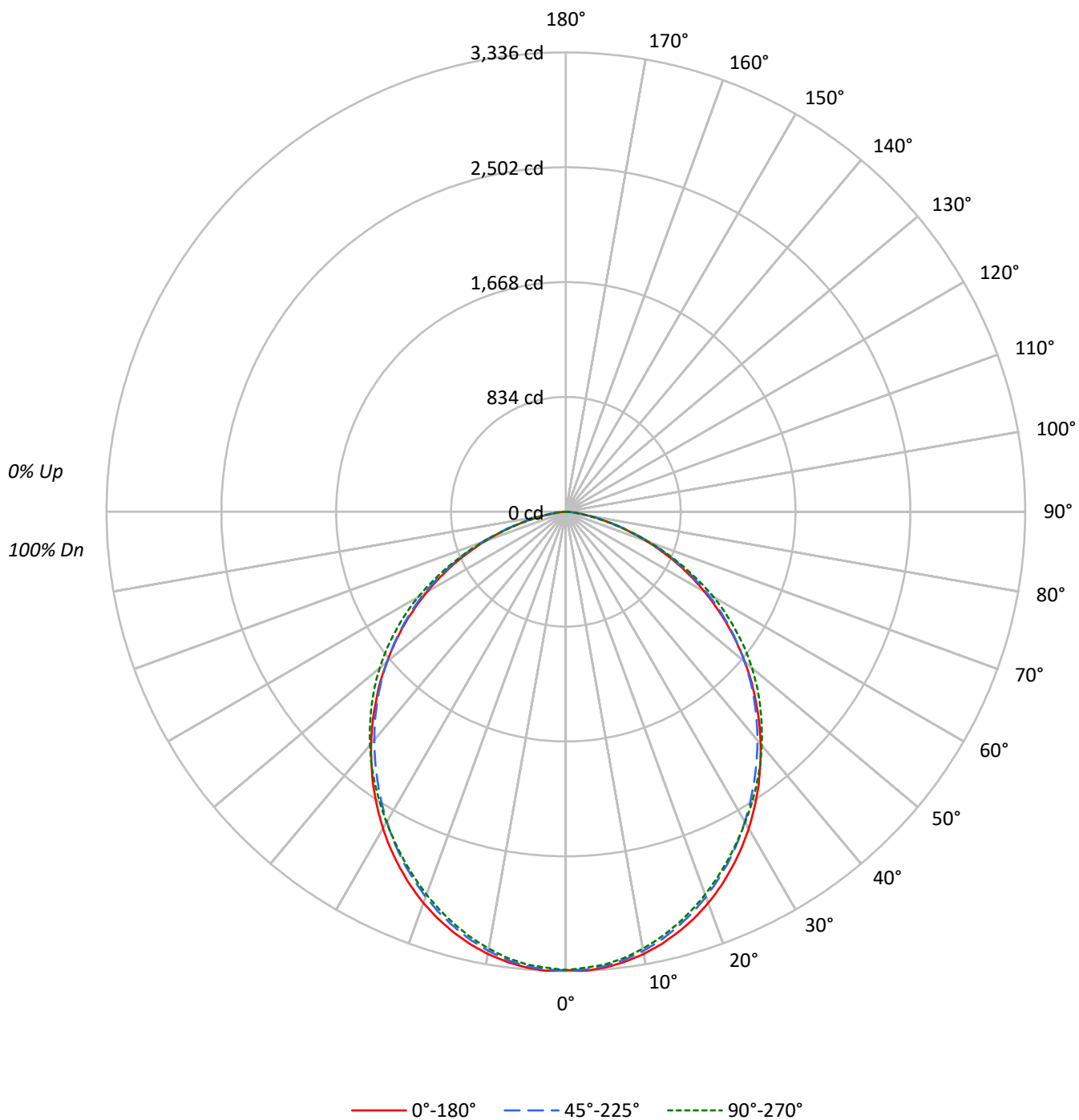
Lumens per Lamp: N/A
Luminaire Lumens: 8180.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.1
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: P1498884

CATALOG NUMBER: MAE-G-2-120-3STD-STD-50-90

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	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	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°	8956	8956	8956
5°	8972	8943	8913
10°	8910	8849	8802
15°	8803	8701	8650
20°	8659	8523	8470
25°	8470	8314	8274
30°	8253	8077	8093
35°	8007	7837	7938
40°	7730	7604	7775
45°	7429	7365	7595
50°	7099	7096	7385
55°	6727	6784	7081
60°	6267	6386	6678
65°	5694	5851	5985
70°	4906	5091	5065
75°	3900	4057	3813
80°	2627	2681	2515
85°	1355	1698	2078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7595 cd/sqm

TEST NUMBER: P1498884

CATALOG NUMBER: MAE-G-2-120-3STD-STD-50-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.3	3.8
10°-20°	880.0	10.8
20°-30°	1291.7	15.8
30°-40°	1503.0	18.4
40°-50°	1505.6	18.4
50°-60°	1300.6	15.9
60°-70°	905.7	11.1
70°-80°	408.5	5.0
80°-90°	71.6	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°	2485.0	30.4
0°-40°	3988.0	48.8
0°-60°	6794.2	83.1
0°-90°	8180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3328	3328	3328	3328	3328	
5°	3322	3308	3311	3295	3300	315
15°	3160	3139	3123	3100	3105	890
25°	2852	2826	2800	2776	2787	1313
35°	2438	2405	2386	2394	2416	1523
45°	1952	1928	1935	1972	1996	1506
55°	1434	1416	1446	1492	1509	1280
65°	894	890	919	936	940	884
75°	375	377	390	377	367	403
85°	44	47	55	64	67	65
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-3STD-STD-50-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3328.3	3328.3	3328.3	3328.3	3328.3
2.5°	3336.5	3323.2	3328.3	3315.9	3313.9
5°	3321.6	3307.7	3310.8	3294.9	3299.5
7.5°	3295.9	3281.0	3280.0	3262.6	3266.7
10°	3260.9	3243.2	3238.4	3218.3	3221.4
12.5°	3214.4	3196.0	3186.2	3163.3	3168.4
15°	3159.7	3139.2	3123.4	3100.5	3105.0
17.5°	3096.3	3073.7	3054.5	3027.9	3035.5
20°	3023.7	2999.0	2976.1	2948.0	2957.9
22.5°	2942.2	2916.1	2890.0	2864.5	2874.3
25°	2852.5	2825.9	2800.0	2776.4	2786.8
27.5°	2758.2	2728.5	2702.1	2684.7	2696.2
30°	2656.1	2625.2	2599.5	2587.9	2604.4
32.5°	2548.3	2517.6	2494.3	2492.6	2511.7
35°	2437.5	2405.2	2385.7	2394.1	2416.4
37.5°	2318.5	2290.9	2276.4	2294.8	2317.5
40°	2200.4	2171.8	2164.5	2189.6	2213.4
42.5°	2078.3	2052.7	2051.1	2083.9	2106.2
45°	1952.0	1928.0	1935.2	1971.6	1995.8
47.5°	1827.7	1803.2	1817.1	1857.2	1883.5
50°	1695.7	1675.3	1694.9	1740.0	1764.0
52.5°	1564.4	1544.9	1571.2	1619.0	1642.3
55°	1433.9	1416.1	1446.0	1492.5	1509.3
57.5°	1298.9	1287.8	1319.0	1360.0	1377.6
60°	1164.4	1154.7	1186.6	1224.9	1240.9
62.5°	1029.7	1023.3	1054.1	1085.4	1091.1
65°	894.2	889.8	918.9	936.3	940.0
67.5°	757.2	756.8	783.8	793.4	793.3
70°	623.6	621.7	647.1	650.4	643.7
72.5°	493.6	495.8	512.9	510.2	499.2
75°	375.1	377.4	390.2	377.0	366.7
77.5°	264.8	267.1	273.5	258.9	252.7
80°	169.5	174.7	173.0	166.6	162.3
82.5°	94.9	100.4	98.7	106.9	110.5
85°	43.9	47.3	55.0	63.7	67.3
87.5°	14.9	18.0	22.6	24.2	22.6
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	18.55	20.13	18.91	20.45	20.76	18.94	20.52	19.30	20.83	21.15
	3H	20.00	21.42	20.37	21.75	22.11	20.35	21.78	20.73	22.11	22.47
	4H	20.42	21.75	20.82	22.10	22.48	20.73	22.06	21.13	22.41	22.79
	6H	20.62	21.85	21.03	22.22	22.61	20.89	22.12	21.30	22.49	22.88
	8H	20.64	21.82	21.07	22.21	22.61	20.92	22.09	21.34	22.48	22.88
	12H	20.64	21.77	21.07	22.15	22.58	20.93	22.06	21.36	22.44	22.87
4H	2H	19.13	20.47	19.53	20.82	21.20	19.45	20.78	19.84	21.13	21.51
	3H	20.76	21.87	21.17	22.27	22.67	21.05	22.16	21.46	22.56	22.96
	4H	21.26	22.26	21.69	22.68	23.11	21.51	22.51	21.94	22.92	23.36
	6H	21.54	22.41	21.99	22.85	23.31	21.74	22.61	22.19	23.05	23.51
	8H	21.58	22.39	22.04	22.83	23.30	21.78	22.60	22.25	23.04	23.51
	12H	21.59	22.31	22.07	22.79	23.26	21.82	22.54	22.30	23.02	23.49
8H	4H	21.44	22.26	21.91	22.70	23.17	21.67	22.48	22.13	22.93	23.39
	6H	21.77	22.44	22.27	22.93	23.41	21.95	22.62	22.44	23.11	23.59
	8H	21.84	22.44	22.35	22.95	23.43	22.02	22.62	22.53	23.13	23.62
	12H	21.87	22.40	22.38	22.89	23.45	22.09	22.62	22.60	23.11	23.67
12H	4H	21.44	22.17	21.92	22.64	23.11	21.67	22.39	22.15	22.87	23.34
	6H	21.77	22.37	22.28	22.88	23.36	21.94	22.54	22.45	23.05	23.54
	8H	21.86	22.39	22.37	22.89	23.45	22.05	22.58	22.56	23.07	23.63