

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: P1499382

Luminaire Tested: MAE-G-4-120-2STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

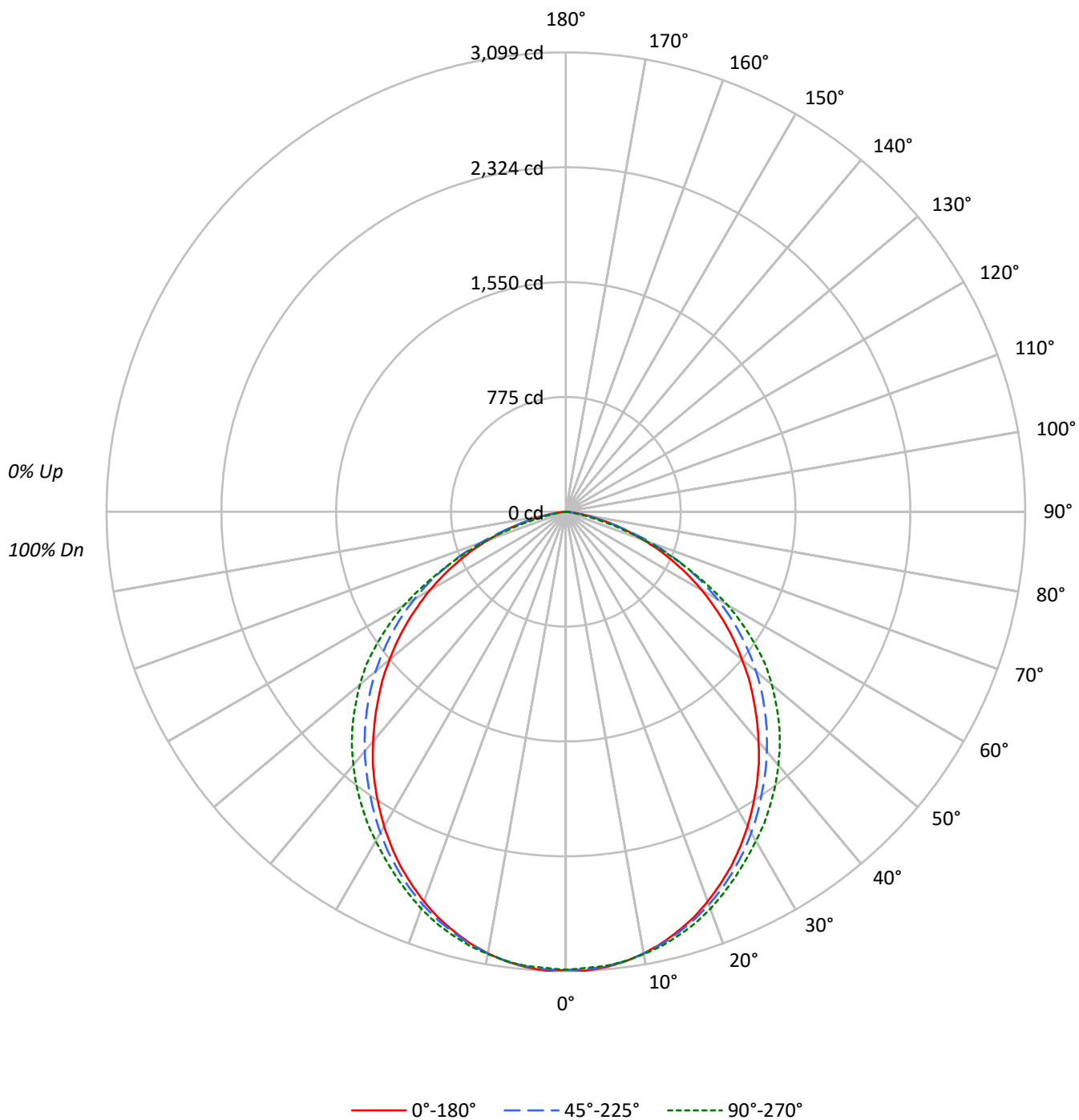
Lumens per Lamp: N/A
Luminaire Lumens: 7801.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
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

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	97	99	96	93		95	93	91		92
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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	45	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°	4158	4158	4158
5°	4165	4159	4154
10°	4133	4133	4139
15°	4078	4093	4118
20°	4006	4039	4081
25°	3916	3968	4027
30°	3809	3887	3985
35°	3688	3792	3954
40°	3552	3707	3917
45°	3407	3614	3874
50°	3249	3506	3796
55°	3070	3365	3653
60°	2852	3177	3392
65°	2573	2887	2904
70°	2196	2402	2245
75°	1724	1740	1402
80°	1121	895	537
85°	519	340	276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3874 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.9	3.7
10°-20°	827.9	10.6
20°-30°	1229.8	15.8
30°-40°	1448.5	18.6
40°-50°	1467.5	18.8
50°-60°	1277.3	16.4
60°-70°	870.4	11.2
70°-80°	347.9	4.5
80°-90°	39.8	0.5
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°	2349.5	30.1
0°-40°	3798.0	48.7
0°-60°	6542.9	83.9
0°-90°	7801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3090	3090	3090	3090	3090	
5°	3084	3066	3079	3075	3076	293
15°	2928	2915	2938	2949	2956	825
25°	2638	2639	2673	2695	2713	1214
35°	2246	2256	2309	2370	2407	1404
45°	1790	1812	1899	1989	2036	1382
55°	1309	1337	1434	1525	1557	1169
65°	808	846	907	908	912	801
75°	332	352	335	288	270	357
85°	34	30	22	20	18	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3090.4	3090.4	3090.4	3090.4	3090.4
2.5°	3098.9	3079.0	3090.4	3088.3	3079.9
5°	3084.1	3066.2	3079.0	3074.8	3075.7
7.5°	3060.0	3043.3	3057.0	3055.8	3059.0
10°	3025.4	3008.7	3025.4	3026.3	3029.6
12.5°	2982.3	2967.7	2987.6	2991.8	2999.2
15°	2927.8	2915.2	2938.2	2948.9	2956.1
17.5°	2869.1	2860.7	2883.7	2897.4	2909.0
20°	2797.7	2793.5	2820.8	2834.3	2850.1
22.5°	2720.0	2717.9	2750.6	2767.3	2783.0
25°	2638.1	2639.2	2672.9	2694.9	2712.8
27.5°	2547.9	2549.9	2591.0	2617.2	2639.2
30°	2451.4	2456.7	2501.7	2537.4	2564.8
32.5°	2349.5	2359.1	2407.3	2456.7	2491.3
35°	2245.6	2256.3	2308.7	2369.5	2407.3
37.5°	2138.7	2150.3	2211.1	2282.5	2322.4
40°	2022.3	2039.9	2110.4	2189.0	2229.9
42.5°	1907.7	1927.6	2006.5	2092.6	2136.6
45°	1790.3	1812.4	1899.4	1988.6	2035.7
47.5°	1676.9	1695.7	1789.2	1882.7	1924.6
50°	1552.1	1577.2	1674.8	1768.3	1813.3
52.5°	1432.5	1456.6	1556.3	1651.6	1698.0
55°	1308.6	1336.9	1434.5	1524.8	1557.2
57.5°	1183.8	1216.3	1310.7	1385.1	1413.4
60°	1060.0	1092.4	1180.6	1239.3	1260.4
62.5°	934.9	968.6	1046.3	1082.0	1086.2
65°	808.1	845.9	906.7	907.8	912.0
67.5°	687.5	718.8	762.8	750.3	744.1
70°	558.3	592.8	610.7	585.6	570.8
72.5°	443.9	469.0	466.0	429.1	411.5
75°	331.7	351.6	334.7	287.6	269.7
77.5°	229.9	246.6	212.9	168.9	151.2
80°	144.7	152.2	115.5	81.9	69.3
82.5°	77.7	76.5	49.4	40.8	37.8
85°	33.6	30.4	22.0	19.9	17.9
87.5°	11.6	10.4	8.3	7.4	6.3
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	15.87	17.45	16.23	17.76	18.08	16.83	18.41	17.19	18.72	19.04
	3H	17.29	18.71	17.67	19.04	19.40	18.02	19.44	18.39	19.76	20.13
	4H	17.68	19.01	18.08	19.36	19.74	18.23	19.57	18.63	19.91	20.29
	6H	17.86	19.09	18.27	19.45	19.84	18.25	19.48	18.66	19.85	20.24
	8H	17.87	19.04	18.29	19.43	19.83	18.23	19.40	18.65	19.79	20.19
	12H	17.86	18.98	18.29	19.36	19.79	18.20	19.32	18.63	19.71	20.13
4H	2H	16.53	17.86	16.93	18.21	18.59	17.30	18.63	17.70	18.98	19.36
	3H	18.11	19.21	18.52	19.61	20.01	18.65	19.76	19.06	20.15	20.56
	4H	18.58	19.57	19.01	19.99	20.43	18.92	19.91	19.35	20.33	20.76
	6H	18.82	19.68	19.28	20.12	20.58	18.97	19.83	19.43	20.27	20.73
	8H	18.84	19.65	19.31	20.09	20.56	18.95	19.75	19.41	20.19	20.66
	12H	18.84	19.56	19.32	20.04	20.51	18.93	19.64	19.41	20.12	20.59
8H	4H	18.72	19.52	19.18	19.96	20.43	19.03	19.84	19.50	20.28	20.75
	6H	18.99	19.66	19.49	20.15	20.62	19.09	19.75	19.59	20.24	20.72
	8H	19.03	19.62	19.55	20.13	20.62	19.07	19.66	19.58	20.17	20.66
	12H	19.04	19.57	19.55	20.06	20.62	19.06	19.58	19.56	20.07	20.63
12H	4H	18.70	19.42	19.18	19.89	20.37	19.02	19.74	19.50	20.22	20.69
	6H	18.96	19.56	19.48	20.06	20.55	19.07	19.66	19.58	20.17	20.66
	8H	19.03	19.55	19.54	20.04	20.60	19.07	19.59	19.58	20.08	20.65