

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: P1499019

Luminaire Tested: MAE-G-4-120-1LO-HI-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1LO-HI-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

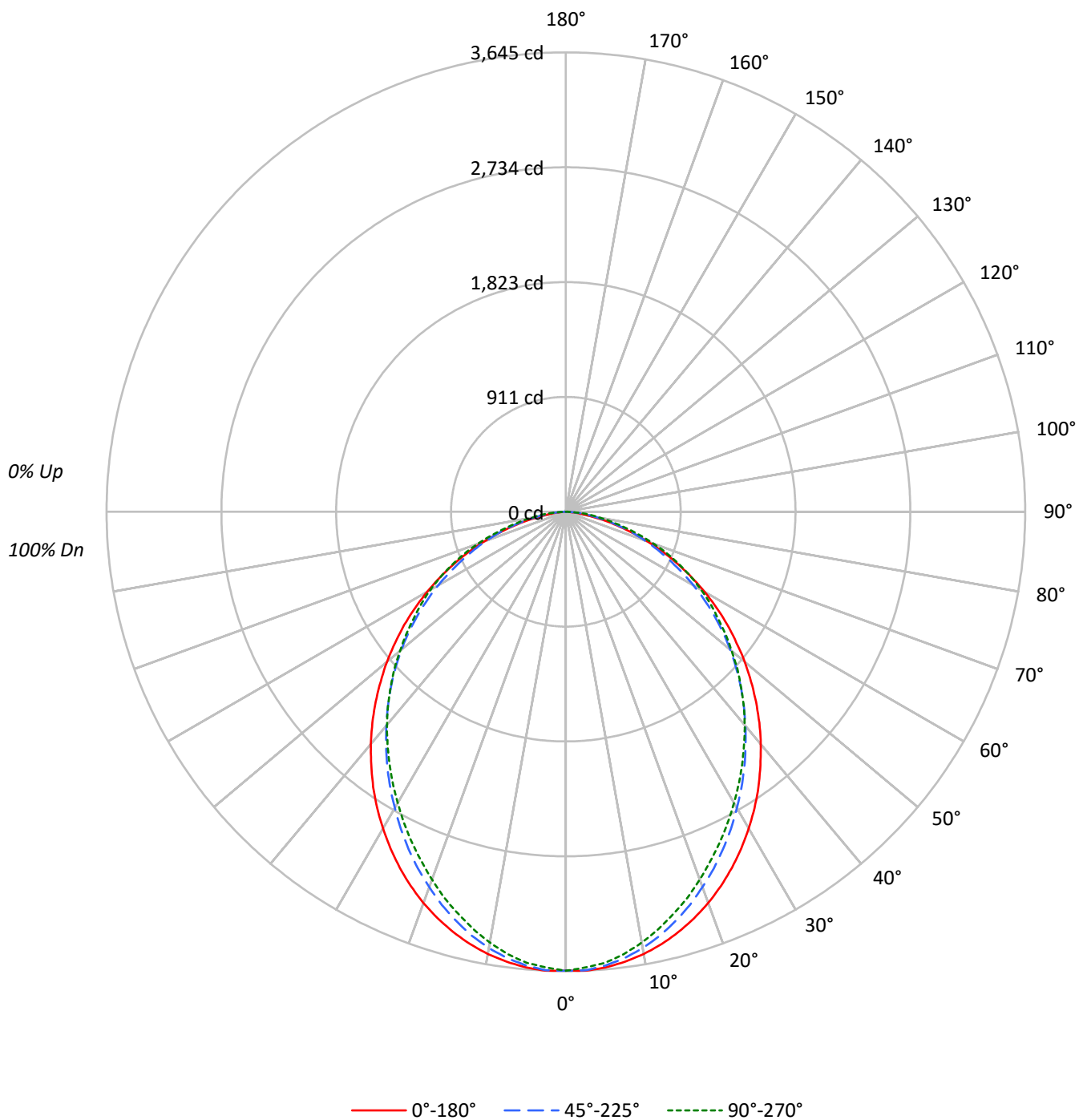
Lumens per Lamp: N/A
Luminaire Lumens: 8623.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.9
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4899	4899	4899
5°	4902	4881	4851
10°	4868	4803	4743
15°	4809	4683	4600
20°	4729	4538	4448
25°	4628	4384	4293
30°	4508	4216	4145
35°	4378	4057	4008
40°	4227	3893	3878
45°	4060	3732	3739
50°	3881	3563	3595
55°	3672	3371	3455
60°	3418	3152	3345
65°	3119	2884	3172
70°	2715	2630	2923
75°	2178	2307	2549
80°	1519	1878	2163
85°	855	1496	2007

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4060 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	4.0
10°-20°	948.0	11.0
20°-30°	1370.4	15.9
30°-40°	1569.8	18.2
40°-50°	1547.1	17.9
50°-60°	1320.5	15.3
60°-70°	938.8	10.9
70°-80°	475.7	5.5
80°-90°	111.3	1.3
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°	2659.7	30.8
0°-40°	4229.5	49.0
0°-60°	7097.2	82.3
0°-90°	8623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3641	3641	3641	3641	3641	
5°	3629	3627	3614	3583	3592	344
15°	3453	3428	3362	3300	3302	973
25°	3117	3060	2953	2891	2892	1435
35°	2665	2584	2470	2434	2440	1665
45°	2134	2055	1961	1956	1965	1646
55°	1566	1493	1437	1452	1473	1397
65°	980	922	906	969	996	969
75°	419	394	444	483	490	452
85°	55	69	97	120	130	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3641.3	3641.3	3641.3	3641.3	3641.3
2.5°	3645.3	3649.0	3641.3	3611.7	3618.4
5°	3629.4	3626.7	3613.7	3583.0	3591.7
7.5°	3600.9	3595.0	3571.5	3534.1	3539.4
10°	3563.1	3551.2	3515.4	3467.9	3471.2
12.5°	3513.8	3496.8	3445.6	3390.0	3392.5
15°	3452.6	3428.5	3361.9	3300.5	3302.1
17.5°	3382.4	3353.0	3271.2	3204.1	3210.3
20°	3302.9	3264.1	3169.0	3102.8	3106.2
22.5°	3214.5	3166.6	3065.1	2998.9	2998.9
25°	3117.4	3059.9	2952.9	2891.3	2891.9
27.5°	3013.2	2949.2	2836.5	2777.8	2781.7
30°	2901.6	2831.9	2713.5	2663.6	2667.9
32.5°	2786.3	2711.6	2593.4	2550.8	2555.0
35°	2665.1	2584.1	2469.8	2433.5	2439.9
37.5°	2535.5	2456.4	2342.2	2319.0	2324.1
40°	2406.7	2325.0	2216.6	2200.0	2208.0
42.5°	2272.5	2192.4	2090.3	2079.0	2089.0
45°	2133.7	2054.8	1961.4	1956.5	1965.2
47.5°	1993.2	1916.1	1833.2	1832.2	1844.9
50°	1854.0	1778.5	1702.4	1707.7	1717.6
52.5°	1706.5	1635.2	1571.5	1579.2	1596.5
55°	1565.5	1493.0	1437.1	1452.1	1472.7
57.5°	1418.6	1355.5	1305.4	1330.8	1359.3
60°	1270.3	1208.8	1171.3	1213.0	1243.1
62.5°	1123.7	1064.3	1036.7	1093.9	1119.9
65°	979.8	922.2	906.0	968.7	996.3
67.5°	835.6	784.1	787.1	853.6	874.1
70°	690.2	643.6	668.5	728.6	743.1
72.5°	552.3	514.1	556.2	605.3	613.5
75°	419.0	393.8	443.8	482.9	490.4
77.5°	300.5	287.5	337.7	369.8	378.4
80°	196.1	200.0	242.4	269.8	279.2
82.5°	114.8	126.5	160.8	191.6	201.3
85°	55.4	69.4	96.9	119.9	130.0
87.5°	18.9	28.3	41.0	45.7	44.4
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	16.36	17.94	16.72	18.26	18.57	16.21	17.79	16.58	18.11	18.42
	3H	17.83	19.26	18.21	19.58	19.94	17.95	19.38	18.33	19.71	20.07
	4H	18.27	19.61	18.67	19.96	20.34	18.54	19.88	18.94	20.23	20.61
	6H	18.50	19.74	18.91	20.11	20.50	18.93	20.17	19.34	20.54	20.93
	8H	18.54	19.72	18.97	20.11	20.51	19.06	20.24	19.48	20.63	21.03
	12H	18.55	19.68	18.98	20.06	20.49	19.15	20.28	19.58	20.66	21.09
4H	2H	16.84	18.19	17.24	18.53	18.91	16.72	18.06	17.12	18.41	18.79
	3H	18.51	19.63	18.92	20.02	20.42	18.68	19.79	19.09	20.19	20.59
	4H	19.04	20.04	19.47	20.46	20.89	19.39	20.40	19.82	20.81	21.25
	6H	19.35	20.23	19.81	20.67	21.13	19.90	20.78	20.35	21.22	21.67
	8H	19.41	20.23	19.88	20.68	21.14	20.07	20.89	20.53	21.33	21.80
	12H	19.44	20.17	19.92	20.65	21.12	20.20	20.94	20.68	21.41	21.88
8H	4H	19.27	20.09	19.74	20.54	21.00	19.59	20.41	20.05	20.86	21.32
	6H	19.66	20.34	20.16	20.83	21.31	20.20	20.88	20.69	21.37	21.84
	8H	19.76	20.37	20.27	20.88	21.37	20.43	21.04	20.95	21.55	22.04
	12H	19.82	20.36	20.33	20.85	21.41	20.64	21.18	21.15	21.67	22.23
12H	4H	19.29	20.03	19.78	20.51	20.98	19.59	20.33	20.08	20.81	21.28
	6H	19.70	20.31	20.21	20.82	21.30	20.21	20.82	20.72	21.33	21.82
	8H	19.84	20.38	20.35	20.87	21.43	20.50	21.03	21.00	21.52	22.09

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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