

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: P1499043

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499043
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-LO-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

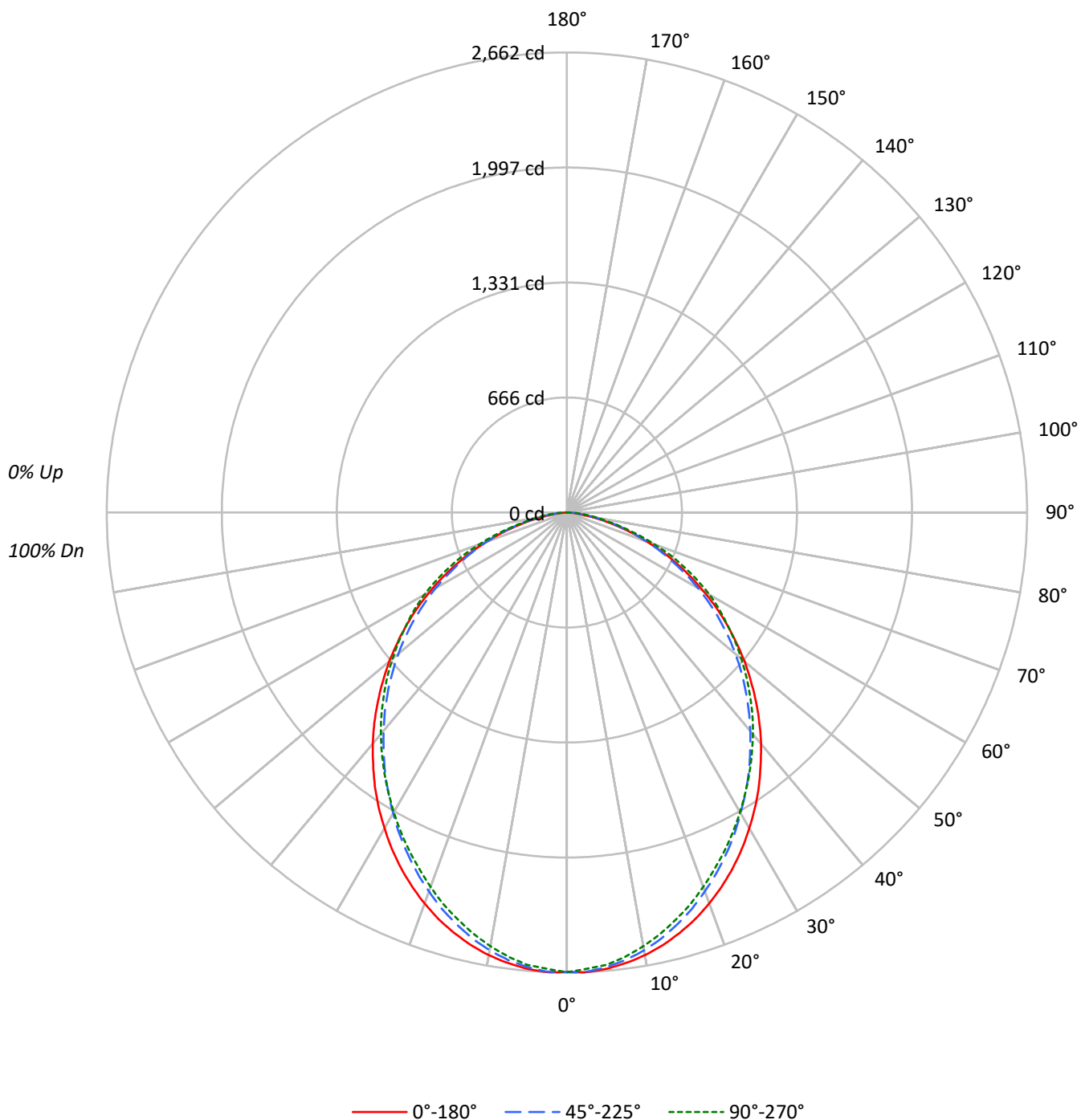
Lumens per Lamp: N/A
Luminaire Lumens: 6364.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.2
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: P1499043

CATALOG NUMBER: MAE-G-4-120-1LO-LO-35

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	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	82	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3578	3578	3578
5°	3579	3566	3548
10°	3554	3515	3481
15°	3509	3437	3395
20°	3447	3340	3301
25°	3371	3237	3205
30°	3279	3122	3110
35°	3181	3013	3023
40°	3068	2898	2941
45°	2942	2785	2850
50°	2808	2664	2756
55°	2652	2523	2656
60°	2461	2361	2568
65°	2240	2152	2387
70°	1944	1934	2128
75°	1551	1646	1747
80°	1073	1272	1385
85°	599	969	1261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2942 cd/sqm

TEST NUMBER: P1499043

CATALOG NUMBER: MAE-G-4-120-1LO-LO-35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	3.9
10°-20°	695.9	10.9
20°-30°	1010.9	15.9
30°-40°	1163.4	18.3
40°-50°	1151.5	18.1
50°-60°	985.9	15.5
60°-70°	695.4	10.9
70°-80°	337.8	5.3
80°-90°	73.5	1.2
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°	1956.4	30.7
0°-40°	3119.8	49.0
0°-60°	5257.3	82.6
0°-90°	6364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2659	2659	2659	2659	2659	
5°	2650	2648	2640	2621	2627	251
15°	2519	2505	2467	2434	2438	710
25°	2270	2237	2180	2153	2159	1045
35°	1936	1891	1834	1827	1840	1210
45°	1546	1504	1464	1482	1498	1193
55°	1131	1092	1076	1108	1132	1009
65°	704	674	676	727	750	696
75°	298	286	317	336	336	322
85°	39	47	63	76	82	55
90°	0	0	0	0	0	

TEST NUMBER: P1499043

CATALOG NUMBER: MAE-G-4-120-1LO-LO-35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2659.4	2659.4	2659.4	2659.4	2659.4
2.5°	2662.5	2664.7	2659.4	2639.4	2642.9
5°	2650.2	2648.0	2640.0	2621.4	2627.2
7.5°	2629.1	2625.5	2611.2	2589.1	2592.9
10°	2601.0	2593.7	2572.6	2544.9	2548.2
12.5°	2564.6	2554.9	2525.0	2493.7	2497.1
15°	2519.0	2505.0	2467.1	2434.1	2437.6
17.5°	2466.7	2450.7	2404.8	2369.1	2376.7
20°	2407.5	2385.9	2333.0	2299.2	2305.6
22.5°	2342.2	2315.0	2259.6	2227.0	2232.1
25°	2270.4	2237.3	2180.5	2152.6	2158.6
27.5°	2192.9	2156.6	2098.1	2072.7	2082.0
30°	2110.3	2071.1	2009.2	1991.7	2001.9
32.5°	2025.5	1983.9	1922.8	1911.6	1921.7
35°	1936.4	1891.0	1834.2	1827.4	1840.2
37.5°	1841.0	1797.3	1741.2	1745.6	1757.6
40°	1746.6	1701.4	1650.1	1659.8	1674.2
42.5°	1648.4	1604.7	1557.9	1571.5	1588.4
45°	1546.0	1504.4	1463.5	1481.6	1497.7
47.5°	1443.3	1402.1	1368.9	1390.0	1409.2
50°	1341.4	1301.8	1272.7	1298.3	1316.4
52.5°	1234.4	1196.7	1175.9	1202.9	1226.1
55°	1130.7	1092.3	1075.5	1107.6	1132.3
57.5°	1023.5	992.1	977.6	1015.3	1046.1
60°	914.7	883.7	877.4	925.2	954.3
62.5°	808.2	777.8	775.1	831.0	851.9
65°	703.5	673.5	675.8	727.3	749.8
67.5°	599.8	572.2	584.9	634.3	649.3
70°	494.1	469.5	491.7	533.3	540.9
72.5°	394.8	374.1	404.2	433.4	435.2
75°	298.3	285.6	316.7	336.0	336.1
77.5°	213.5	206.8	235.5	248.6	249.4
80°	138.5	141.5	164.1	174.4	178.8
82.5°	80.7	87.8	105.5	123.0	127.6
85°	38.8	47.3	62.8	76.2	81.7
87.5°	13.4	19.1	26.2	29.1	28.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499043

CATALOG NUMBER: MAE-G-4-120-1LO-LO-35

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	15.23	16.81	15.59	17.12	17.44	15.40	16.98	15.76	17.29	17.61
	3H	16.68	18.10	17.05	18.43	18.79	17.04	18.47	17.42	18.79	19.15
	4H	17.10	18.44	17.50	18.79	19.17	17.54	18.88	17.94	19.23	19.61
	6H	17.32	18.56	17.74	18.93	19.32	17.84	19.08	18.25	19.44	19.83
	8H	17.36	18.54	17.78	18.93	19.33	17.93	19.11	18.35	19.50	19.90
	12H	17.36	18.49	17.79	18.88	19.30	17.99	19.12	18.42	19.50	19.93
4H	2H	15.74	17.08	16.14	17.43	17.81	15.88	17.22	16.28	17.57	17.94
	3H	17.38	18.49	17.79	18.89	19.29	17.73	18.84	18.14	19.24	19.64
	4H	17.89	18.89	18.32	19.31	19.75	18.34	19.35	18.78	19.76	20.20
	6H	18.19	19.07	18.65	19.51	19.96	18.74	19.62	19.20	20.06	20.52
	8H	18.25	19.06	18.71	19.51	19.97	18.87	19.68	19.33	20.13	20.59
	12H	18.27	19.00	18.75	19.48	19.95	18.96	19.69	19.44	20.17	20.64
8H	4H	18.12	18.93	18.58	19.38	19.84	18.53	19.34	18.99	19.79	20.25
	6H	18.48	19.16	18.98	19.65	20.12	19.00	19.68	19.50	20.17	20.65
	8H	18.57	19.18	19.08	19.68	20.17	19.18	19.79	19.69	20.29	20.78
	12H	18.62	19.16	19.13	19.65	20.21	19.34	19.87	19.85	20.36	20.93
12H	4H	18.13	18.86	18.61	19.34	19.81	18.53	19.26	19.01	19.73	20.20
	6H	18.50	19.11	19.01	19.62	20.10	19.01	19.62	19.52	20.12	20.61
	8H	18.63	19.17	19.14	19.66	20.22	19.23	19.76	19.74	20.26	20.82