

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: P1499049

Luminaire Tested: MAE-G-4-120-1LO-LO-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499049
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-40
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

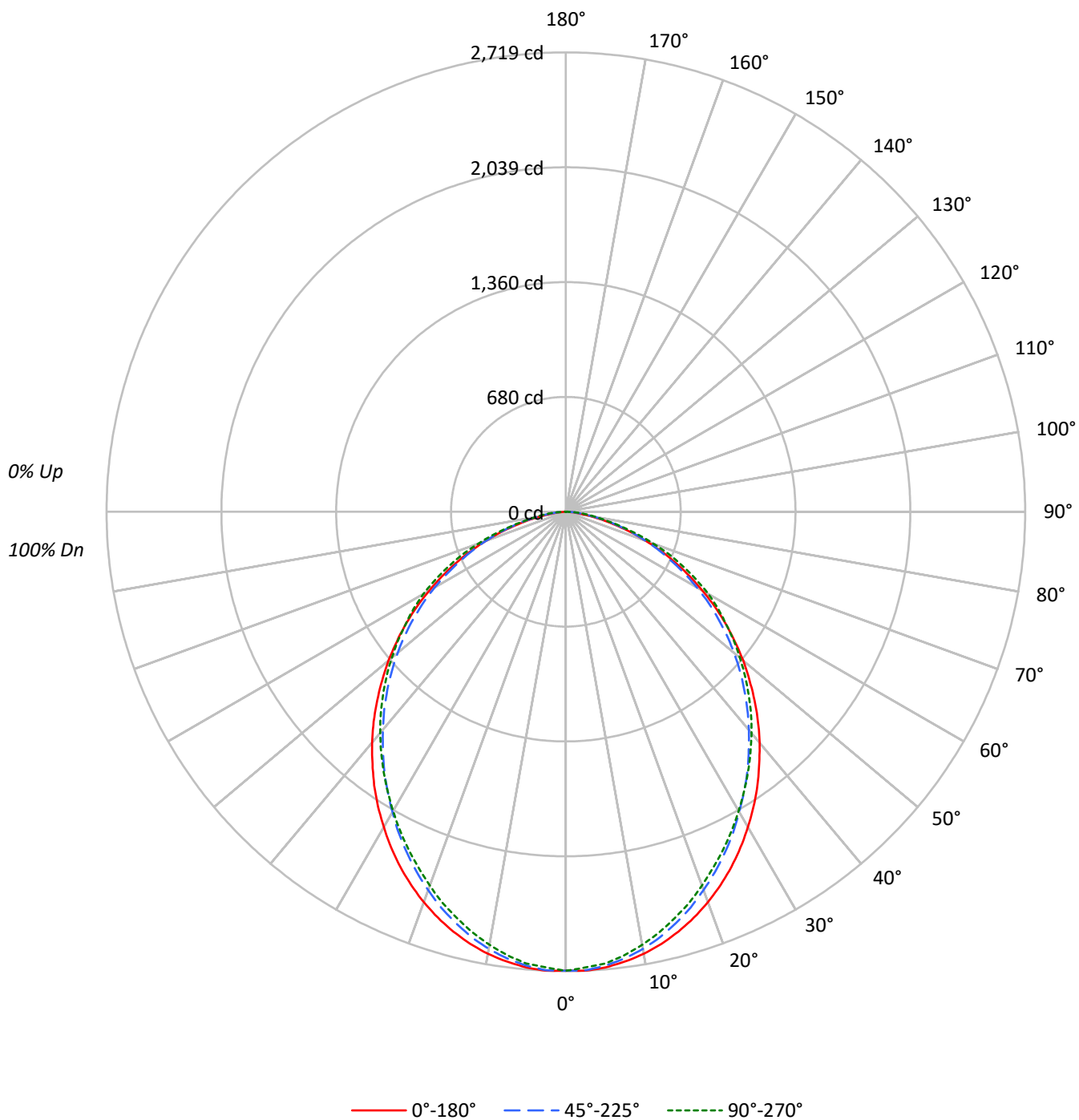
Lumens per Lamp: N/A
Luminaire Lumens: 6499.9 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1499049

CATALOG NUMBER: MAE-G-4-120-1LO-LO-40

Luminous Intensity Polar Plot



TEST NUMBER: P1499049

CATALOG NUMBER: MAE-G-4-120-1LO-LO-40

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3655	3655	3655
5°	3656	3642	3624
10°	3630	3590	3556
15°	3584	3510	3468
20°	3521	3412	3372
25°	3443	3306	3273
30°	3349	3188	3177
35°	3249	3077	3087
40°	3133	2960	3003
45°	3005	2844	2911
50°	2868	2721	2815
55°	2709	2577	2713
60°	2514	2411	2623
65°	2287	2197	2438
70°	1985	1976	2173
75°	1584	1681	1784
80°	1096	1299	1416
85°	611	990	1289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3005 cd/sqm

TEST NUMBER: P1499049

CATALOG NUMBER: MAE-G-4-120-1LO-LO-40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	3.9
10°-20°	710.8	10.9
20°-30°	1032.5	15.9
30°-40°	1188.3	18.3
40°-50°	1176.1	18.1
50°-60°	1007.0	15.5
60°-70°	710.2	10.9
70°-80°	345.0	5.3
80°-90°	75.1	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°	1998.2	30.7
0°-40°	3186.5	49.0
0°-60°	5369.6	82.6
0°-90°	6499.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6499.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2716	2716	2716	2716	2716	
5°	2707	2705	2696	2677	2684	257
15°	2573	2558	2520	2486	2490	725
25°	2319	2285	2227	2198	2205	1067
35°	1978	1931	1873	1866	1880	1236
45°	1579	1537	1495	1513	1530	1218
55°	1155	1116	1098	1131	1156	1031
65°	718	688	690	743	766	711
75°	305	292	323	343	343	329
85°	40	48	64	78	84	56
90°	0	0	0	0	0	

TEST NUMBER: P1499049

CATALOG NUMBER: MAE-G-4-120-1LO-LO-40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2716.3	2716.3	2716.3	2716.3	2716.3
2.5°	2719.3	2721.6	2716.3	2695.9	2699.4
5°	2706.9	2704.6	2696.5	2677.4	2683.5
7.5°	2685.3	2681.5	2667.0	2644.3	2648.3
10°	2656.6	2649.2	2627.5	2599.4	2602.7
12.5°	2619.4	2609.4	2579.0	2547.0	2550.6
15°	2572.9	2558.5	2519.8	2486.1	2489.7
17.5°	2519.4	2503.1	2456.2	2419.7	2427.5
20°	2459.0	2436.8	2382.9	2348.3	2354.9
22.5°	2392.3	2364.5	2307.9	2274.6	2279.8
25°	2318.9	2285.1	2227.1	2198.5	2204.8
27.5°	2239.8	2202.7	2143.0	2116.9	2126.5
30°	2155.4	2115.4	2052.2	2034.3	2044.7
32.5°	2068.8	2026.3	1963.9	1952.4	1962.9
35°	1977.8	1931.4	1873.4	1866.4	1879.5
37.5°	1880.4	1835.7	1778.4	1782.9	1795.2
40°	1784.0	1737.7	1685.3	1695.2	1710.0
42.5°	1683.6	1639.0	1591.2	1605.0	1622.3
45°	1579.1	1536.6	1494.8	1513.2	1529.7
47.5°	1474.2	1432.1	1398.1	1419.7	1439.3
50°	1370.1	1329.7	1300.0	1326.0	1344.6
52.5°	1260.8	1222.3	1201.0	1228.6	1252.3
55°	1154.9	1115.7	1098.5	1131.4	1156.5
57.5°	1045.4	1013.2	998.4	1037.0	1068.4
60°	934.2	902.5	896.1	944.9	974.7
62.5°	825.5	794.4	791.7	848.7	870.1
65°	718.5	687.9	690.2	742.8	765.9
67.5°	612.6	584.5	597.4	647.9	663.2
70°	504.6	479.5	502.2	544.7	552.4
72.5°	403.3	382.1	412.8	442.6	444.5
75°	304.7	291.7	323.4	343.1	343.2
77.5°	218.1	211.2	240.5	253.9	254.7
80°	141.4	144.5	167.6	178.1	182.7
82.5°	82.4	89.7	107.8	125.5	130.3
85°	39.6	48.4	64.1	77.8	83.5
87.5°	13.7	19.5	26.7	29.6	28.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499049

CATALOG NUMBER: MAE-G-4-120-1LO-LO-40

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	15.30	16.88	15.67	17.20	17.51	15.47	17.05	15.84	17.37	17.68
	3H	16.75	18.17	17.13	18.50	18.86	17.11	18.54	17.49	18.87	19.23
	4H	17.18	18.52	17.58	18.86	19.24	17.62	18.95	18.02	19.30	19.68
	6H	17.40	18.64	17.81	19.00	19.39	17.91	19.15	18.32	19.52	19.91
	8H	17.43	18.61	17.86	19.00	19.40	18.00	19.18	18.42	19.57	19.97
	12H	17.44	18.57	17.87	18.95	19.38	18.06	19.19	18.49	19.57	20.00
4H	2H	15.82	17.15	16.21	17.50	17.88	15.95	17.29	16.35	17.64	18.02
	3H	17.45	18.57	17.86	18.96	19.36	17.80	18.92	18.21	19.32	19.72
	4H	17.96	18.97	18.40	19.38	19.82	18.42	19.42	18.85	19.84	20.27
	6H	18.26	19.14	18.72	19.58	20.04	18.82	19.69	19.27	20.13	20.59
	8H	18.32	19.14	18.78	19.58	20.05	18.94	19.76	19.40	20.20	20.66
	12H	18.34	19.07	18.82	19.55	20.02	19.04	19.77	19.52	20.24	20.71
8H	4H	18.19	19.01	18.65	19.45	19.91	18.60	19.42	19.06	19.86	20.33
	6H	18.56	19.23	19.05	19.72	20.20	19.08	19.75	19.57	20.24	20.72
	8H	18.64	19.25	19.15	19.76	20.24	19.25	19.86	19.77	20.37	20.85
	12H	18.70	19.23	19.20	19.72	20.28	19.41	19.95	19.92	20.44	21.00
12H	4H	18.20	18.93	18.68	19.41	19.88	18.60	19.33	19.08	19.81	20.28
	6H	18.58	19.18	19.09	19.69	20.18	19.08	19.69	19.59	20.20	20.68
	8H	18.70	19.24	19.21	19.73	20.29	19.30	19.84	19.81	20.33	20.89