

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: P1499067

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499067
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-STD-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

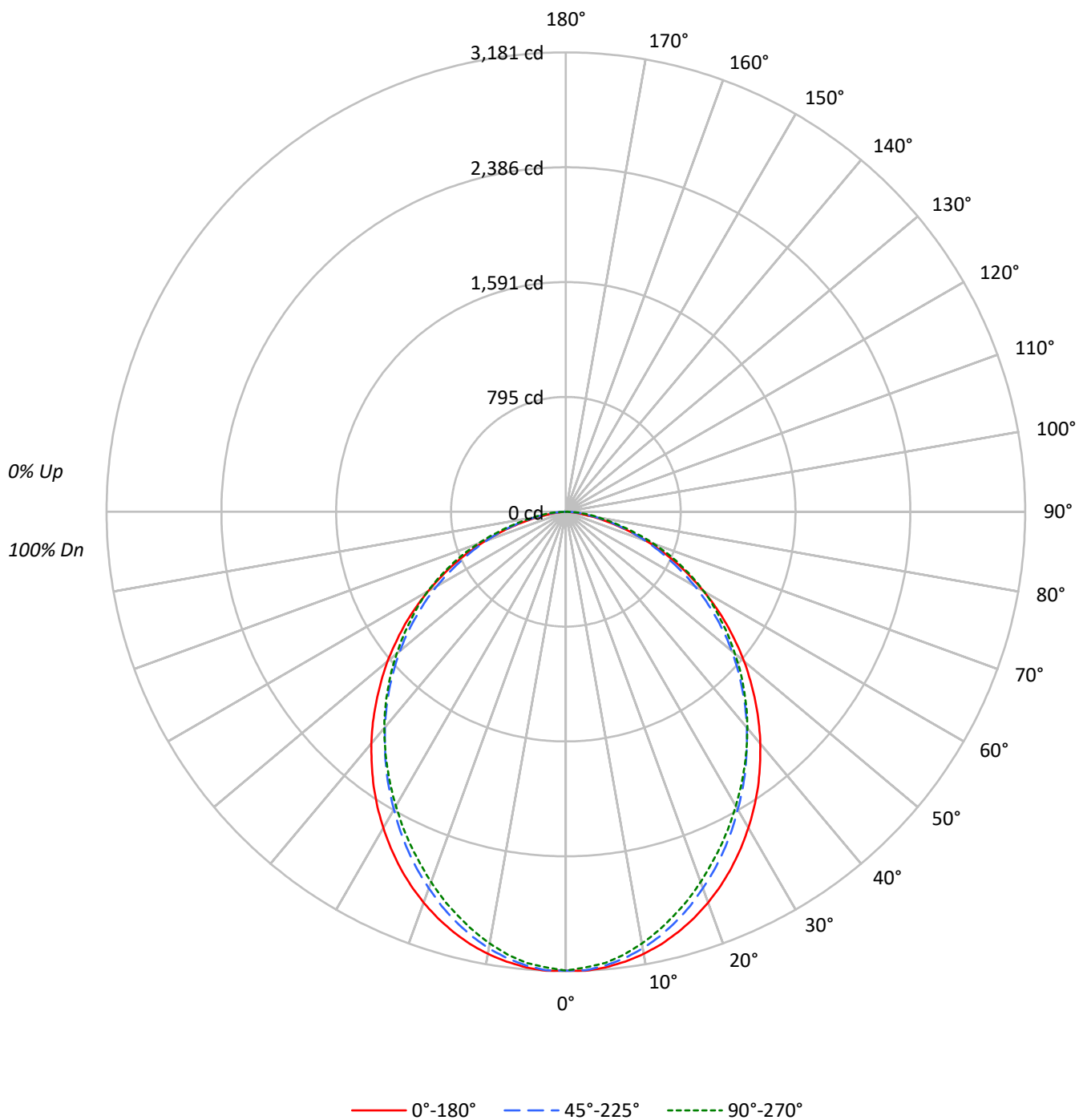
Lumens per Lamp: N/A
Luminaire Lumens: 7556.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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: P1499067

CATALOG NUMBER: MAE-G-4-120-1LO-STD-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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°	4275	4275	4275
5°	4277	4260	4236
10°	4247	4195	4147
15°	4195	4094	4031
20°	4124	3972	3906
25°	4034	3842	3779
30°	3927	3699	3656
35°	3812	3564	3542
40°	3680	3423	3435
45°	3532	3285	3319
50°	3374	3139	3199
55°	3191	2970	3077
60°	2966	2778	2978
65°	2704	2538	2801
70°	2351	2301	2548
75°	1882	1995	2171
80°	1309	1592	1796
85°	735	1247	1655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3532 cd/sqm

TEST NUMBER: P1499067

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.1	3.9
10°-20°	828.9	11.0
20°-30°	1200.6	15.9
30°-40°	1377.9	18.2
40°-50°	1360.3	18.0
50°-60°	1162.5	15.4
60°-70°	823.8	10.9
70°-80°	410.6	5.4
80°-90°	93.5	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°	2327.5	30.8
0°-40°	3705.4	49.0
0°-60°	6228.1	82.4
0°-90°	7556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3178	3178	3178	3178	3178	
5°	3167	3164	3154	3129	3136	300
15°	3012	2992	2939	2891	2894	849
25°	2717	2671	2588	2542	2546	1251
35°	2321	2257	2170	2147	2157	1450
45°	1856	1795	1726	1732	1744	1432
55°	1360	1304	1266	1289	1312	1214
65°	849	805	797	855	880	840
75°	362	343	384	414	418	390
85°	48	59	81	99	107	67
90°	0	0	0	0	0	

TEST NUMBER: P1499067

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3177.5	3177.5	3177.5	3177.5	3177.5
2.5°	3181.1	3184.1	3177.5	3152.5	3157.6
5°	3166.9	3164.4	3153.8	3128.8	3136.1
7.5°	3141.9	3137.0	3118.0	3087.8	3092.3
10°	3108.7	3098.9	3070.1	3032.0	3035.3
12.5°	3065.4	3051.9	3010.8	2966.6	2969.6
15°	3011.6	2992.3	2939.3	2891.3	2893.8
17.5°	2949.9	2926.8	2862.0	2809.7	2816.5
20°	2880.0	2849.3	2774.1	2723.2	2728.1
22.5°	2802.5	2764.4	2684.6	2634.3	2636.7
25°	2717.3	2671.4	2588.0	2542.4	2545.5
27.5°	2625.8	2574.8	2487.7	2444.7	2451.2
30°	2527.9	2472.6	2380.8	2346.2	2353.3
32.5°	2427.0	2367.9	2276.7	2248.9	2255.9
35°	2320.9	2256.7	2169.6	2147.2	2156.6
37.5°	2207.5	2145.1	2058.3	2048.1	2056.5
40°	2094.9	2030.4	1949.0	1944.8	1955.9
42.5°	1977.7	1914.8	1838.8	1839.3	1852.6
45°	1856.1	1794.8	1726.3	1732.2	1744.4
47.5°	1733.5	1673.4	1613.9	1623.3	1639.1
50°	1611.9	1553.4	1499.4	1514.4	1528.1
52.5°	1483.5	1428.1	1384.6	1401.5	1421.6
55°	1360.1	1303.7	1266.3	1289.4	1311.9
57.5°	1232.0	1183.8	1150.6	1181.8	1211.3
60°	1102.3	1055.2	1032.5	1077.1	1106.7
62.5°	974.7	929.0	913.2	969.7	993.3
65°	849.3	804.7	797.3	854.7	879.9
67.5°	724.2	684.0	691.6	750.0	767.9
70°	597.6	561.4	585.0	636.4	647.6
72.5°	477.9	448.0	484.4	524.1	529.3
75°	362.0	342.7	383.8	413.5	417.6
77.5°	259.4	249.4	289.4	312.5	317.5
80°	168.9	172.4	205.4	224.7	231.8
82.5°	98.7	108.2	134.7	159.2	166.5
85°	47.6	59.0	80.8	99.2	107.2
87.5°	16.3	24.0	34.0	37.9	36.8
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	17.77	18.08	15.85	17.43	16.21	17.75	18.06
	3H	17.33	18.76	17.71	19.08	19.45	17.55	18.98	17.93	19.30	19.66
	4H	17.77	19.11	18.17	19.46	19.83	18.10	19.44	18.50	19.79	20.17
	6H	17.99	19.23	18.41	19.60	19.99	18.46	19.70	18.87	20.06	20.45
	8H	18.03	19.21	18.46	19.60	20.00	18.57	19.75	18.99	20.14	20.54
	12H	18.04	19.17	18.47	19.55	19.98	18.65	19.78	19.08	20.16	20.59
4H	2H	16.37	17.71	16.77	18.05	18.43	16.35	17.69	16.75	18.04	18.41
	3H	18.02	19.14	18.43	19.53	19.93	18.26	19.38	18.67	19.78	20.18
	4H	18.54	19.55	18.97	19.96	20.40	18.93	19.94	19.37	20.35	20.79
	6H	18.85	19.73	19.31	20.17	20.63	19.40	20.27	19.85	20.71	21.17
	8H	18.91	19.73	19.37	20.17	20.64	19.55	20.37	20.01	20.81	21.28
	12H	18.94	19.67	19.42	20.15	20.62	19.67	20.40	20.15	20.88	21.35
8H	4H	18.77	19.59	19.24	20.04	20.50	19.13	19.95	19.59	20.39	20.86
	6H	19.15	19.83	19.65	20.32	20.80	19.68	20.36	20.18	20.85	21.33
	8H	19.25	19.86	19.76	20.36	20.85	19.89	20.50	20.41	21.01	21.50
	12H	19.31	19.84	19.81	20.33	20.90	20.08	20.62	20.59	21.11	21.67
12H	4H	18.79	19.52	19.27	20.00	20.47	19.13	19.86	19.61	20.34	20.81
	6H	19.18	19.79	19.69	20.30	20.79	19.69	20.30	20.20	20.81	21.30
	8H	19.32	19.86	19.83	20.35	20.91	19.95	20.49	20.46	20.98	21.54