

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: P1499004

Luminaire Tested: MAE-G-4-120-1LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499004
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-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

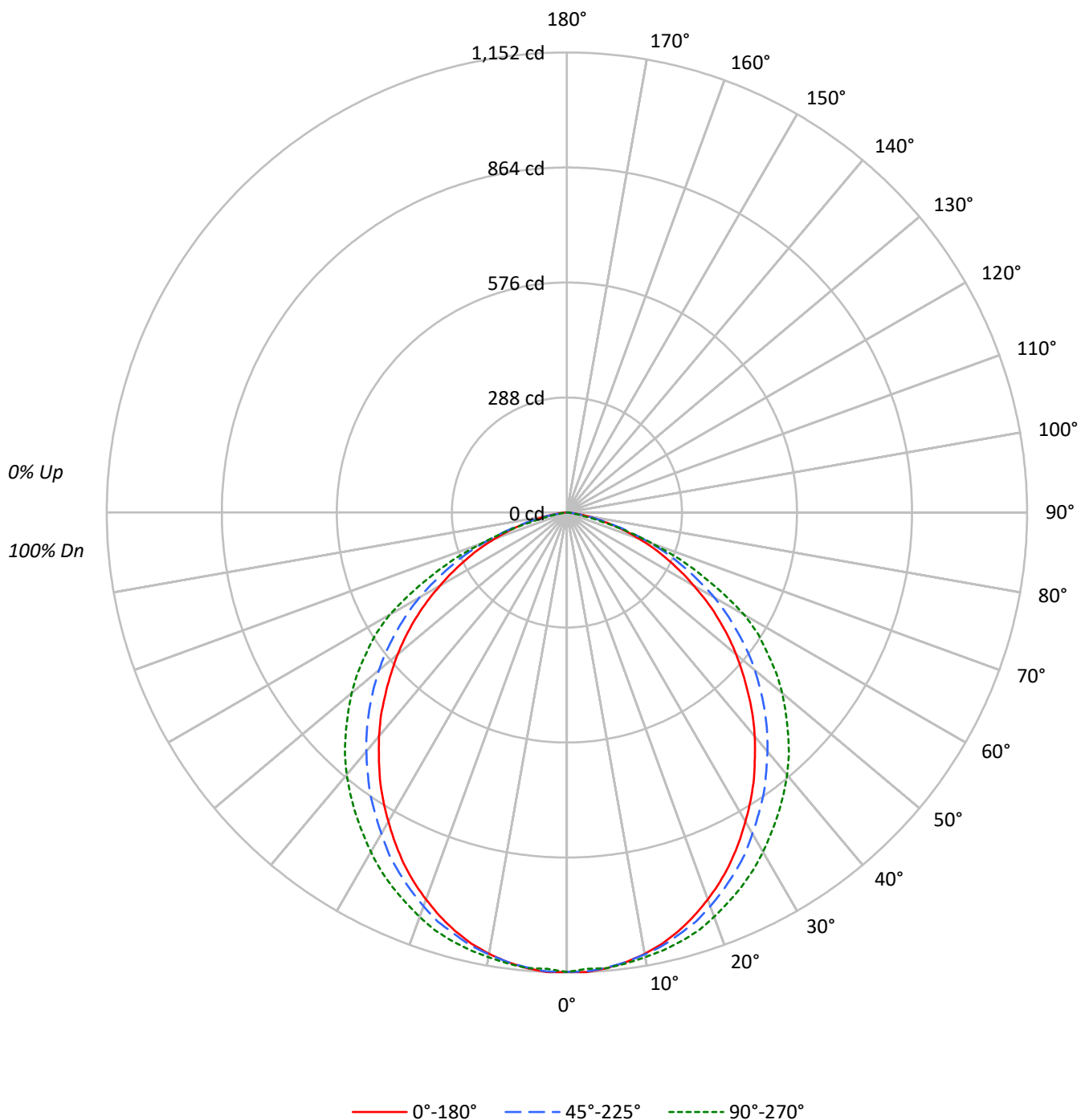
Lumens per Lamp: N/A
Luminaire Lumens: 2896.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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: P1499004

CATALOG NUMBER: MAE-G-4-120-1LO-50-90

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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	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		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1548	1548	1548
5°	1547	1545	1547
10°	1533	1535	1545
15°	1510	1522	1547
20°	1476	1503	1543
25°	1437	1477	1536
30°	1389	1443	1525
35°	1340	1411	1514
40°	1285	1372	1506
45°	1222	1332	1490
50°	1157	1285	1472
55°	1083	1223	1437
60°	989	1149	1381
65°	885	1027	1186
70°	755	866	905
75°	585	628	508
80°	385	333	180
85°	204	153	102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1490 cd/sqm

TEST NUMBER: P1499004

CATALOG NUMBER: MAE-G-4-120-1LO-50-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	3.8
10°-20°	308.7	10.7
20°-30°	459.0	15.9
30°-40°	539.7	18.6
40°-50°	544.7	18.8
50°-60°	473.0	16.3
60°-70°	321.9	11.1
70°-80°	125.4	4.3
80°-90°	15.0	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°	876.4	30.3
0°-40°	1416.0	48.9
0°-60°	2433.7	84.0
0°-90°	2896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1145	1144	1144	1144	1145	109
15°	1084	1086	1092	1104	1111	305
25°	968	973	995	1020	1034	445
35°	816	826	859	899	922	510
45°	642	659	700	755	783	496
55°	462	477	521	581	612	412
65°	278	291	323	358	372	276
75°	112	119	121	109	98	122
85°	13	13	10	8	7	19
90°	0	0	0	0	0	

TEST NUMBER: P1499004

CATALOG NUMBER: MAE-G-4-120-1LO-50-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1152.0	1152.0	1150.3	1145.3	1143.7
5°	1145.3	1143.7	1143.7	1143.7	1145.3
7.5°	1135.4	1135.4	1135.4	1137.1	1138.7
10°	1122.2	1122.2	1123.8	1127.1	1130.5
12.5°	1105.6	1107.3	1110.6	1117.2	1122.2
15°	1084.1	1085.8	1092.4	1104.0	1110.6
17.5°	1059.3	1064.2	1074.2	1087.4	1097.3
20°	1031.1	1036.1	1049.4	1065.9	1077.5
22.5°	1001.4	1006.3	1022.9	1042.7	1056.0
25°	968.2	973.2	994.7	1019.6	1034.5
27.5°	931.8	938.5	964.9	991.4	1009.6
30°	893.8	902.0	928.5	961.6	981.5
32.5°	855.7	865.6	893.8	931.8	951.7
35°	816.0	825.9	859.0	898.7	921.9
37.5°	772.9	784.5	819.3	867.3	890.5
40°	731.6	743.2	781.2	832.5	857.4
42.5°	688.5	701.8	741.5	794.5	822.6
45°	642.2	658.7	700.1	754.7	782.9
47.5°	597.5	612.4	657.1	713.4	743.2
50°	552.8	569.4	614.1	672.0	703.4
52.5°	508.1	523.0	569.4	627.3	660.4
55°	461.8	476.7	521.4	580.9	612.4
57.5°	415.4	433.6	475.0	533.0	567.7
60°	367.4	384.0	427.0	485.0	513.1
62.5°	322.7	337.6	374.1	428.7	441.9
65°	278.1	291.3	322.7	357.5	372.4
67.5°	236.7	246.6	274.8	297.9	304.5
70°	192.0	201.9	220.1	233.4	230.1
72.5°	152.3	158.9	170.5	168.8	160.5
75°	112.5	119.2	120.8	109.2	97.7
77.5°	79.4	82.8	77.8	61.2	49.7
80°	49.7	51.3	43.0	26.5	23.2
82.5°	28.1	28.1	19.9	16.6	13.2
85°	13.2	13.2	9.9	8.3	6.6
87.5°	5.0	5.0	3.3	3.3	3.3
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	12.12	13.70	12.49	14.01	14.33	13.70	15.28	14.07	15.59	15.91
	3H	13.46	14.87	13.83	15.20	15.56	14.97	16.39	15.35	16.71	17.08
	4H	13.82	15.15	14.22	15.50	15.88	15.17	16.50	15.56	16.84	17.22
	6H	13.99	15.22	14.40	15.58	15.97	15.16	16.39	15.57	16.76	17.15
	8H	14.00	15.17	14.43	15.56	15.96	15.14	16.31	15.56	16.70	17.10
	12H	14.00	15.12	14.43	15.50	15.93	15.11	16.23	15.54	16.61	17.04
4H	2H	12.79	14.12	13.18	14.46	14.84	14.08	15.41	14.48	15.76	16.13
	3H	14.28	15.38	14.69	15.78	16.18	15.52	16.62	15.93	17.02	17.42
	4H	14.73	15.72	15.16	16.13	16.57	15.77	16.76	16.20	17.17	17.61
	6H	14.95	15.81	15.41	16.25	16.71	15.80	16.65	16.25	17.10	17.56
	8H	14.98	15.78	15.44	16.22	16.69	15.77	16.57	16.23	17.01	17.48
	12H	14.98	15.69	15.46	16.17	16.64	15.75	16.46	16.23	16.94	17.41
8H	4H	14.88	15.68	15.35	16.13	16.59	15.85	16.65	16.32	17.10	17.56
	6H	15.14	15.80	15.64	16.29	16.77	15.89	16.54	16.38	17.04	17.51
	8H	15.18	15.77	15.70	16.28	16.77	15.86	16.45	16.37	16.96	17.45
	12H	15.21	15.72	15.71	16.22	16.78	15.85	16.36	16.35	16.86	17.42
12H	4H	14.87	15.58	15.35	16.06	16.53	15.84	16.55	16.32	17.03	17.50
	6H	15.11	15.70	15.63	16.21	16.70	15.86	16.45	16.37	16.96	17.45
	8H	15.18	15.70	15.69	16.19	16.76	15.86	16.38	16.37	16.87	17.43