

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: P1499094

Luminaire Tested: MAE-G-4-120-1STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499094
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-4-120-1STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

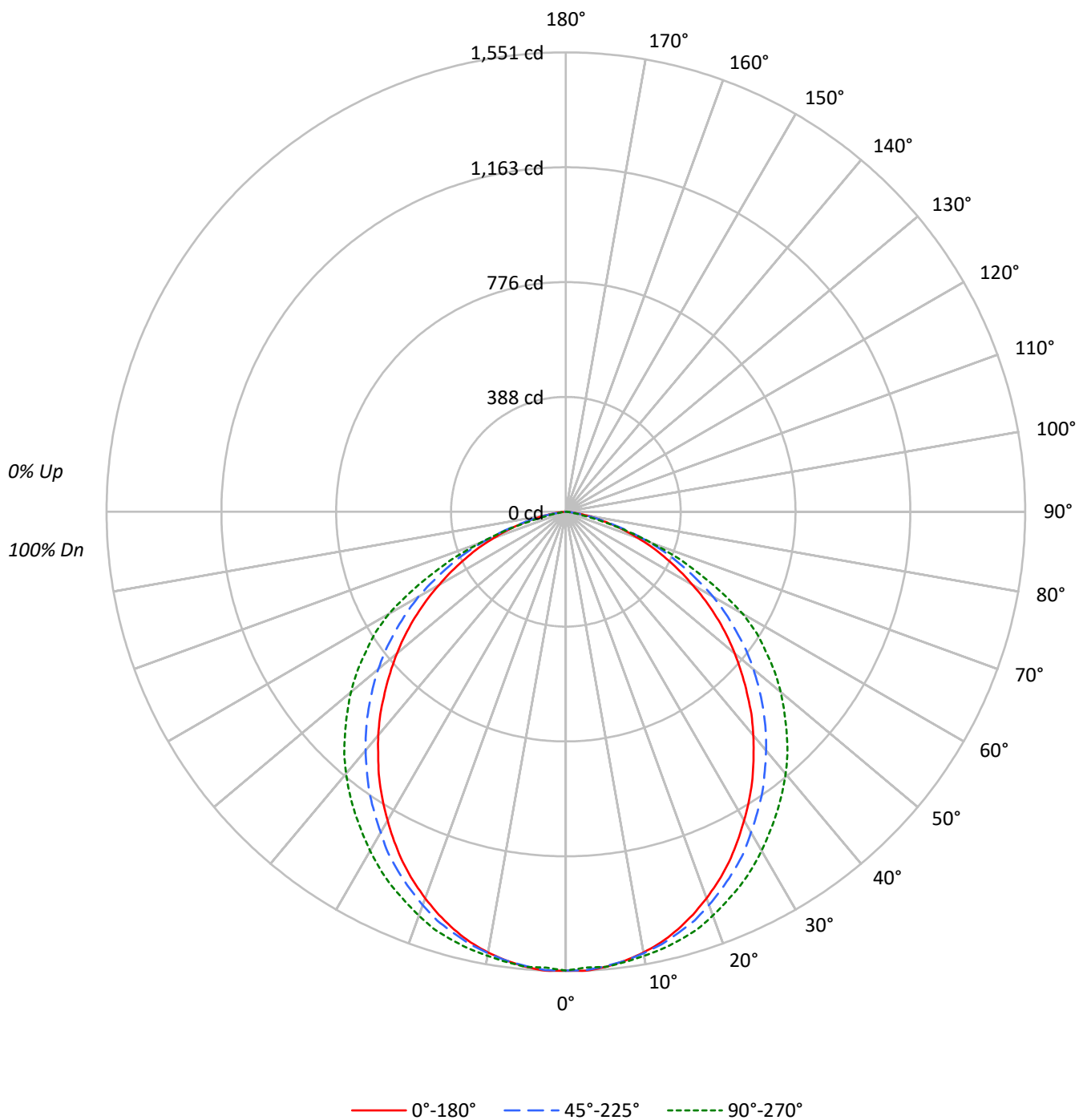
Lumens per Lamp: N/A
Luminaire Lumens: 3900.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.1
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: P1499094

CATALOG NUMBER: MAE-G-4-120-1STD-40-90

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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	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	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	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	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2084	2084	2084
5°	2083	2080	2083
10°	2065	2068	2080
15°	2034	2049	2083
20°	1988	2023	2078
25°	1936	1989	2068
30°	1870	1943	2054
35°	1805	1900	2039
40°	1730	1848	2028
45°	1646	1794	2006
50°	1558	1731	1983
55°	1459	1647	1935
60°	1331	1548	1859
65°	1192	1384	1597
70°	1017	1166	1219
75°	788	846	684
80°	518	449	242
85°	275	207	137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2006 cd/sqm

TEST NUMBER: P1499094

CATALOG NUMBER: MAE-G-4-120-1STD-40-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	3.8
10°-20°	415.8	10.7
20°-30°	618.2	15.9
30°-40°	726.8	18.6
40°-50°	733.5	18.8
50°-60°	636.9	16.3
60°-70°	433.5	11.1
70°-80°	168.9	4.3
80°-90°	20.2	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°	1180.2	30.3
0°-40°	1907.0	48.9
0°-60°	3277.4	84.0
0°-90°	3900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1542	1540	1540	1540	1542	146
15°	1460	1462	1471	1487	1496	411
25°	1304	1311	1340	1373	1393	600
35°	1099	1112	1157	1210	1242	686
45°	865	887	943	1016	1054	668
55°	622	642	702	782	825	555
65°	374	392	435	481	502	372
75°	152	160	163	147	132	165
85°	18	18	13	11	9	26
90°	0	0	0	0	0	

TEST NUMBER: P1499094

CATALOG NUMBER: MAE-G-4-120-1STD-40-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1549.1	1549.1	1549.1	1549.1	1549.1
2.5°	1551.3	1551.3	1549.1	1542.4	1540.2
5°	1542.4	1540.2	1540.2	1540.2	1542.4
7.5°	1529.0	1529.0	1529.0	1531.3	1533.5
10°	1511.2	1511.2	1513.4	1517.9	1522.4
12.5°	1488.9	1491.2	1495.6	1504.5	1511.2
15°	1460.0	1462.2	1471.1	1486.7	1495.6
17.5°	1426.5	1433.2	1446.6	1464.4	1477.8
20°	1388.6	1395.3	1413.1	1435.4	1451.0
22.5°	1348.5	1355.2	1377.5	1404.2	1422.1
25°	1303.9	1310.6	1339.6	1373.0	1393.1
27.5°	1254.9	1263.8	1299.5	1335.1	1359.6
30°	1203.6	1214.8	1250.4	1295.0	1321.8
32.5°	1152.4	1165.7	1203.6	1254.9	1281.6
35°	1098.9	1112.2	1156.8	1210.3	1241.5
37.5°	1040.9	1056.5	1103.3	1168.0	1199.2
40°	985.2	1000.8	1052.1	1121.2	1154.6
42.5°	927.2	945.1	998.6	1069.9	1107.8
45°	864.8	887.1	942.8	1016.4	1054.3
47.5°	804.6	824.7	884.9	960.7	1000.8
50°	744.5	766.8	826.9	904.9	947.3
52.5°	684.3	704.3	766.8	844.8	889.3
55°	621.9	641.9	702.1	782.4	824.7
57.5°	559.5	584.0	639.7	717.7	764.5
60°	494.8	517.1	575.1	653.1	691.0
62.5°	434.6	454.7	503.7	577.3	595.1
65°	374.5	392.3	434.6	481.4	501.5
67.5°	318.7	332.1	370.0	401.2	410.1
70°	258.6	271.9	296.4	314.3	309.8
72.5°	205.1	214.0	229.6	227.4	216.2
75°	151.6	160.5	162.7	147.1	131.5
77.5°	107.0	111.4	104.8	82.5	66.9
80°	66.9	69.1	58.0	35.7	31.2
82.5°	37.9	37.9	26.7	22.3	17.8
85°	17.8	17.8	13.4	11.1	8.9
87.5°	6.7	6.7	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499094

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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	13.16	14.73	13.52	15.05	15.36	14.74	16.31	15.10	16.63	16.94
	3H	14.49	15.91	14.87	16.24	16.60	16.00	17.42	16.38	17.75	18.11
	4H	14.86	16.19	15.26	16.54	16.91	16.20	17.53	16.60	17.88	18.25
	6H	15.02	16.25	15.44	16.62	17.01	16.20	17.42	16.61	17.79	18.18
	8H	15.04	16.21	15.46	16.60	17.00	16.17	17.34	16.60	17.73	18.13
	12H	15.03	16.15	15.46	16.53	16.96	16.14	17.26	16.57	17.65	18.08
4H	2H	13.82	15.15	14.22	15.50	15.88	15.11	16.44	15.51	16.79	17.17
	3H	15.32	16.42	15.73	16.82	17.22	16.55	17.65	16.96	18.05	18.45
	4H	15.76	16.75	16.19	17.16	17.60	16.80	17.79	17.23	18.21	18.64
	6H	15.99	16.84	16.44	17.29	17.74	16.83	17.69	17.29	18.13	18.59
	8H	16.01	16.81	16.47	17.25	17.72	16.80	17.60	17.27	18.05	18.51
	12H	16.01	16.73	16.50	17.21	17.68	16.78	17.50	17.26	17.97	18.44
8H	4H	15.92	16.72	16.38	17.16	17.63	16.89	17.69	17.35	18.13	18.60
	6H	16.18	16.84	16.67	17.33	17.80	16.92	17.58	17.42	18.07	18.55
	8H	16.22	16.81	16.73	17.32	17.81	16.89	17.48	17.41	17.99	18.48
	12H	16.24	16.76	16.75	17.25	17.82	16.88	17.40	17.39	17.89	18.45
12H	4H	15.90	16.62	16.38	17.09	17.56	16.87	17.59	17.35	18.07	18.54
	6H	16.15	16.74	16.66	17.25	17.74	16.89	17.48	17.41	17.99	18.48
	8H	16.22	16.74	16.73	17.23	17.79	16.89	17.41	17.40	17.90	18.47