

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: P1499088

Luminaire Tested: MAE-G-4-120-1STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499088
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-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

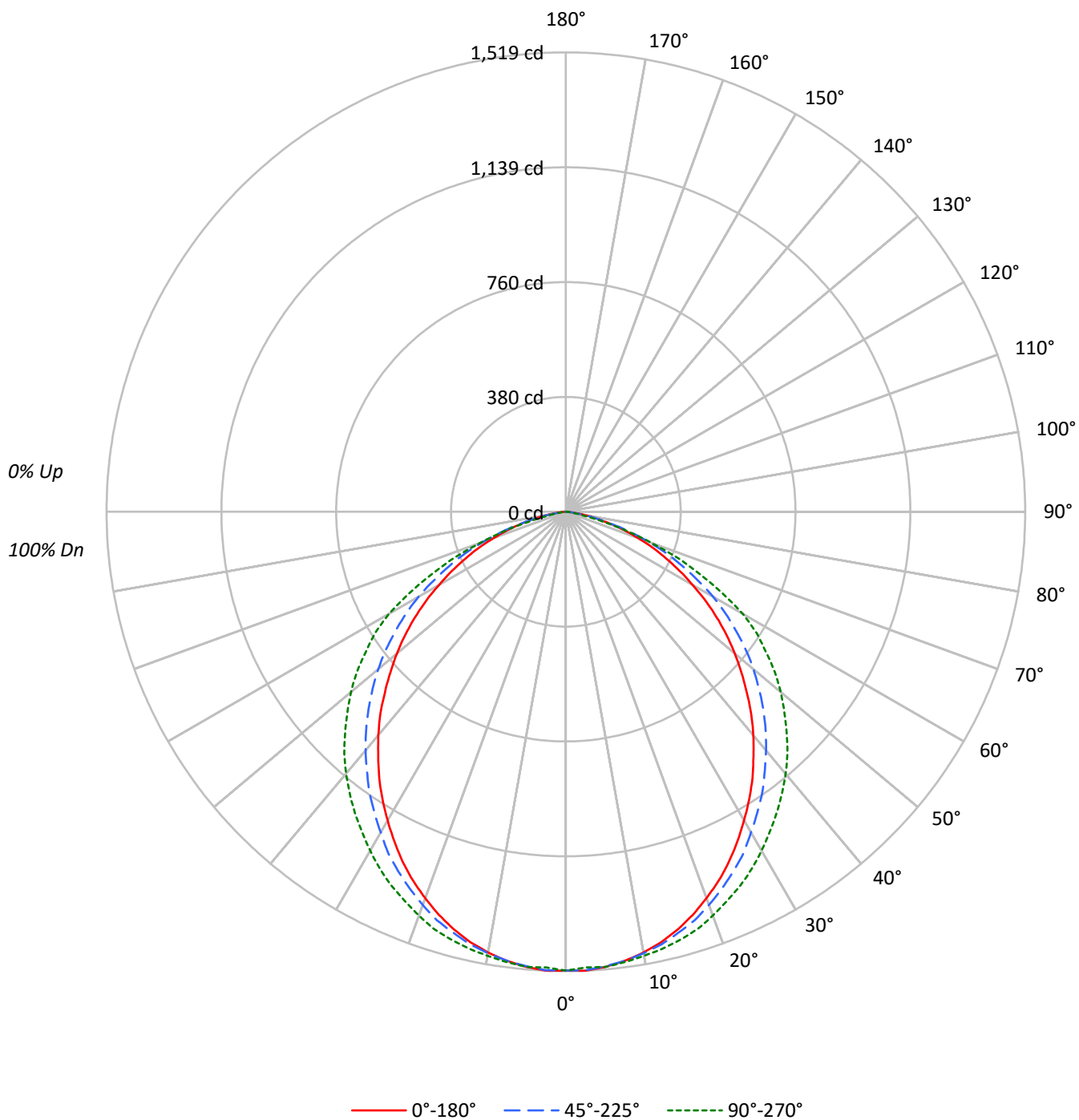
Lumens per Lamp: N/A
Luminaire Lumens: 3819.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1499088

CATALOG NUMBER: MAE-G-4-120-1STD-35-90

Luminous Intensity Polar Plot



TEST NUMBER: P1499088

CATALOG NUMBER: MAE-G-4-120-1STD-35-90

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°	2041	2041	2041
5°	2040	2037	2040
10°	2022	2025	2037
15°	1991	2007	2040
20°	1947	1981	2035
25°	1896	1947	2025
30°	1831	1902	2011
35°	1767	1861	1997
40°	1694	1809	1986
45°	1611	1757	1964
50°	1526	1695	1942
55°	1429	1613	1894
60°	1304	1515	1821
65°	1167	1355	1564
70°	996	1142	1194
75°	771	828	670
80°	508	439	237
85°	270	202	134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1964 cd/sqm

TEST NUMBER: P1499088

CATALOG NUMBER: MAE-G-4-120-1STD-35-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.8
10°-20°	407.1	10.7
20°-30°	605.3	15.9
30°-40°	711.7	18.6
40°-50°	718.3	18.8
50°-60°	623.7	16.3
60°-70°	424.5	11.1
70°-80°	165.4	4.3
80°-90°	19.8	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°	1155.7	30.3
0°-40°	1867.4	48.9
0°-60°	3209.3	84.0
0°-90°	3819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1510	1508	1508	1508	1510	143
15°	1430	1432	1440	1456	1465	403
25°	1277	1283	1312	1344	1364	587
35°	1076	1089	1133	1185	1216	672
45°	847	869	923	995	1032	654
55°	609	629	688	766	808	544
65°	367	384	426	472	491	364
75°	148	157	159	144	129	161
85°	18	18	13	11	9	26
90°	0	0	0	0	0	

TEST NUMBER: P1499088

CATALOG NUMBER: MAE-G-4-120-1STD-35-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1516.9	1516.9	1516.9	1516.9	1516.9
2.5°	1519.1	1519.1	1516.9	1510.4	1508.2
5°	1510.4	1508.2	1508.2	1508.2	1510.4
7.5°	1497.3	1497.3	1497.3	1499.5	1501.7
10°	1479.8	1479.8	1482.0	1486.4	1490.7
12.5°	1458.0	1460.2	1464.6	1473.3	1479.8
15°	1429.6	1431.8	1440.5	1455.8	1464.6
17.5°	1396.9	1403.4	1416.5	1434.0	1447.1
20°	1359.8	1366.3	1383.8	1405.6	1420.9
22.5°	1320.5	1327.0	1348.9	1375.1	1392.5
25°	1276.8	1283.4	1311.8	1344.5	1364.2
27.5°	1228.8	1237.6	1272.5	1307.4	1331.4
30°	1178.6	1189.5	1224.5	1268.1	1294.3
32.5°	1128.4	1141.5	1178.6	1228.8	1255.0
35°	1076.0	1089.1	1132.8	1185.2	1215.7
37.5°	1019.3	1034.6	1080.4	1143.7	1174.3
40°	964.7	980.0	1030.2	1097.9	1130.6
42.5°	908.0	925.4	977.8	1047.7	1084.8
45°	846.9	868.7	923.3	995.3	1032.4
47.5°	787.9	807.6	866.5	940.7	980.0
50°	729.0	750.8	809.8	886.2	927.6
52.5°	670.1	689.7	750.8	827.2	870.9
55°	609.0	628.6	687.5	766.1	807.6
57.5°	547.8	571.9	626.4	702.8	748.6
60°	484.5	506.4	563.1	639.5	676.6
62.5°	425.6	445.3	493.3	565.3	582.8
65°	366.7	384.1	425.6	471.5	491.1
67.5°	312.1	325.2	362.3	392.9	401.6
70°	253.2	266.3	290.3	307.8	303.4
72.5°	200.8	209.5	224.8	222.6	211.7
75°	148.4	157.2	159.3	144.1	128.8
77.5°	104.8	109.1	102.6	80.8	65.5
80°	65.5	67.7	56.7	34.9	30.6
82.5°	37.1	37.1	26.2	21.8	17.5
85°	17.5	17.5	13.1	10.9	8.7
87.5°	6.5	6.5	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499088

CATALOG NUMBER: MAE-G-4-120-1STD-35-90

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	13.08	14.66	13.45	14.98	15.29	14.66	16.24	15.03	16.56	16.87
	3H	14.42	15.84	14.80	16.16	16.52	15.93	17.35	16.31	17.68	18.04
	4H	14.79	16.12	15.19	16.46	16.84	16.13	17.46	16.53	17.80	18.18
	6H	14.95	16.18	15.36	16.54	16.94	16.12	17.35	16.54	17.72	18.11
	8H	14.97	16.14	15.39	16.52	16.92	16.10	17.27	16.52	17.66	18.06
	12H	14.96	16.08	15.39	16.46	16.89	16.07	17.19	16.50	17.57	18.00
4H	2H	13.75	15.08	14.15	15.43	15.80	15.04	16.37	15.44	16.72	17.09
	3H	15.25	16.35	15.66	16.75	17.15	16.48	17.58	16.89	17.98	18.38
	4H	15.69	16.68	16.12	17.09	17.53	16.73	17.72	17.16	18.13	18.57
	6H	15.91	16.77	16.37	17.21	17.67	16.76	17.62	17.21	18.06	18.52
	8H	15.94	16.74	16.40	17.18	17.65	16.73	17.53	17.19	17.98	18.44
	12H	15.94	16.66	16.42	17.13	17.60	16.71	17.42	17.19	17.90	18.37
8H	4H	15.85	16.65	16.31	17.09	17.56	16.81	17.62	17.28	18.06	18.53
	6H	16.11	16.76	16.60	17.25	17.73	16.85	17.51	17.34	18.00	18.47
	8H	16.15	16.74	16.66	17.24	17.73	16.82	17.41	17.33	17.92	18.41
	12H	16.17	16.69	16.68	17.18	17.74	16.81	17.33	17.32	17.82	18.38
12H	4H	15.83	16.54	16.31	17.02	17.49	16.80	17.52	17.28	17.99	18.46
	6H	16.08	16.67	16.59	17.18	17.66	16.82	17.41	17.33	17.92	18.41
	8H	16.14	16.66	16.65	17.16	17.72	16.82	17.34	17.33	17.83	18.39