

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: P1499278

Luminaire Tested: MAE-G-4-120-2LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2LO-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

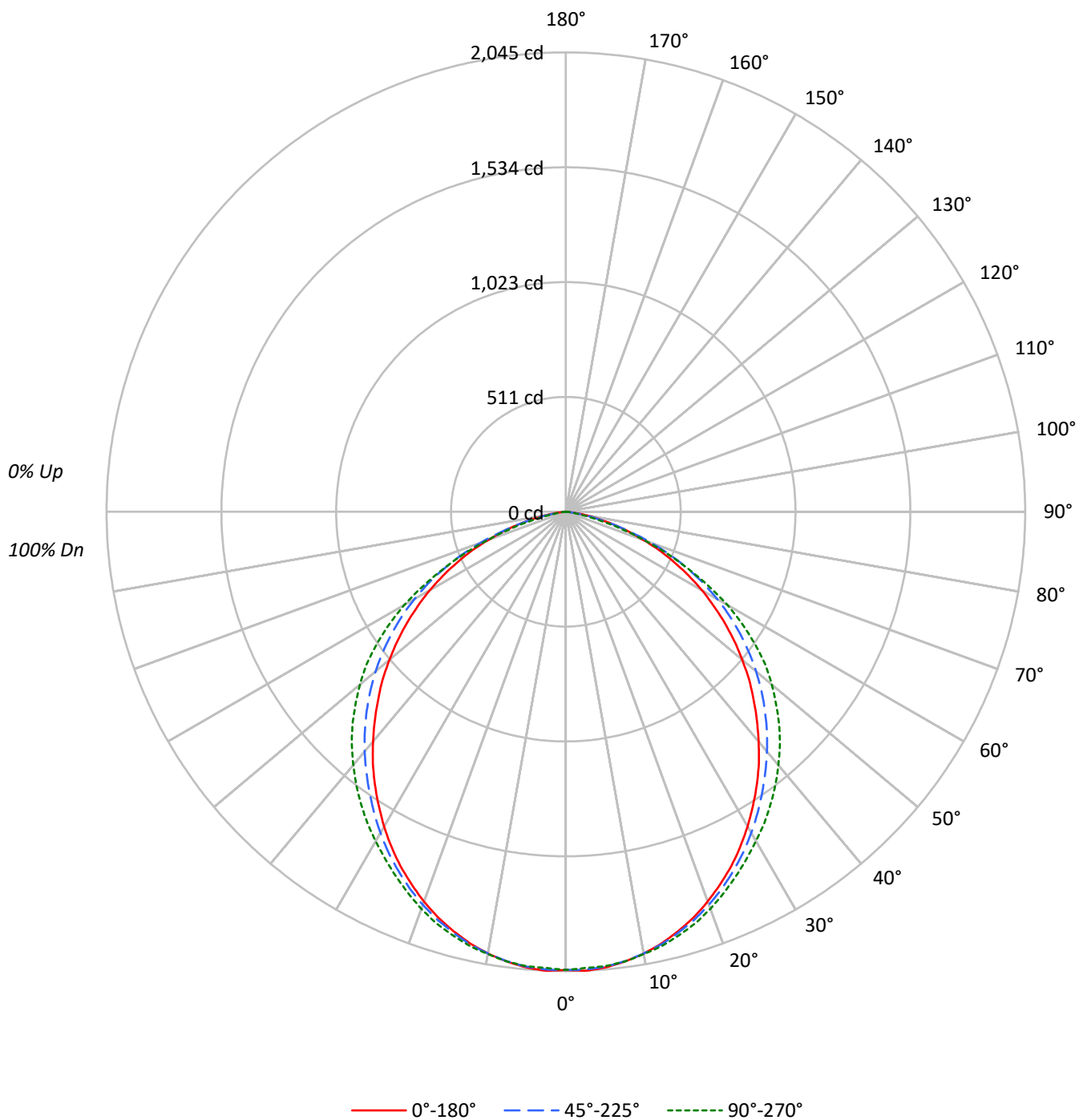
Lumens per Lamp: N/A
Luminaire Lumens: 5149.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P1499278

CATALOG NUMBER: MAE-G-4-120-2LO-35-90-VRDCPH

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	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	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		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2745	2745	2745
5°	2749	2745	2742
10°	2728	2728	2732
15°	2692	2701	2718
20°	2644	2666	2694
25°	2585	2619	2658
30°	2514	2565	2630
35°	2435	2503	2610
40°	2344	2447	2585
45°	2249	2386	2557
50°	2144	2314	2505
55°	2026	2221	2411
60°	1883	2097	2239
65°	1698	1905	1917
70°	1450	1586	1482
75°	1138	1148	925
80°	740	590	355
85°	343	224	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2557 cd/sqm

TEST NUMBER: P1499278

CATALOG NUMBER: MAE-G-4-120-2LO-35-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	3.7
10°-20°	546.4	10.6
20°-30°	811.7	15.8
30°-40°	956.1	18.6
40°-50°	968.6	18.8
50°-60°	843.1	16.4
60°-70°	574.5	11.2
70°-80°	229.6	4.5
80°-90°	26.3	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°	1550.8	30.1
0°-40°	2506.9	48.7
0°-60°	4318.6	83.9
0°-90°	5149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2040	2040	2040	2040	2040	
5°	2036	2024	2032	2030	2030	193
15°	1932	1924	1939	1946	1951	545
25°	1741	1742	1764	1779	1790	801
35°	1482	1489	1524	1564	1589	926
45°	1182	1196	1254	1313	1344	912
55°	864	882	947	1006	1028	772
65°	533	558	598	599	602	529
75°	219	232	221	190	178	236
85°	22	20	14	13	12	35
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-2LO-35-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2039.8	2039.8	2039.8	2039.8	2039.8
2.5°	2045.4	2032.3	2039.8	2038.4	2032.9
5°	2035.6	2023.9	2032.3	2029.5	2030.1
7.5°	2019.7	2008.7	2017.7	2017.0	2019.1
10°	1996.9	1985.9	1996.9	1997.5	1999.7
12.5°	1968.4	1958.8	1972.0	1974.7	1979.6
15°	1932.5	1924.2	1939.3	1946.4	1951.1
17.5°	1893.7	1888.2	1903.4	1912.4	1920.1
20°	1846.6	1843.8	1861.9	1870.8	1881.2
22.5°	1795.3	1793.9	1815.5	1826.5	1836.9
25°	1741.2	1742.0	1764.2	1778.8	1790.5
27.5°	1681.7	1683.1	1710.2	1727.5	1742.0
30°	1618.0	1621.5	1651.2	1674.8	1692.9
32.5°	1550.8	1557.1	1588.9	1621.5	1644.3
35°	1482.2	1489.3	1523.9	1564.0	1588.9
37.5°	1411.6	1419.3	1459.4	1506.6	1532.9
40°	1334.8	1346.4	1393.0	1444.9	1471.8
42.5°	1259.2	1272.3	1324.4	1381.2	1410.3
45°	1181.7	1196.2	1253.7	1312.6	1343.7
47.5°	1106.8	1119.2	1180.9	1242.6	1270.3
50°	1024.5	1041.0	1105.5	1167.2	1196.9
52.5°	945.5	961.4	1027.2	1090.2	1120.8
55°	863.7	882.4	946.9	1006.4	1027.8
57.5°	781.4	802.8	865.1	914.3	932.9
60°	699.6	721.1	779.2	818.0	831.9
62.5°	617.1	639.3	690.6	714.2	716.9
65°	533.4	558.3	598.4	599.2	602.0
67.5°	453.8	474.4	503.5	495.2	491.1
70°	368.5	391.3	403.1	386.6	376.8
72.5°	293.0	309.5	307.6	283.2	271.6
75°	218.9	232.1	220.9	189.8	178.0
77.5°	151.7	162.7	140.5	111.4	99.8
80°	95.5	100.4	76.2	54.0	45.8
82.5°	51.3	50.5	32.6	26.9	25.0
85°	22.2	20.1	14.5	13.2	11.8
87.5°	7.7	6.9	5.5	4.9	4.1
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	14.42	16.01	14.79	16.32	16.63	15.38	16.97	15.75	17.28	17.60
	3H	15.84	17.26	16.22	17.59	17.95	16.57	17.99	16.95	18.32	18.68
	4H	16.24	17.57	16.64	17.92	18.30	16.79	18.12	17.19	18.47	18.85
	6H	16.41	17.64	16.82	18.01	18.40	16.81	18.04	17.22	18.40	18.80
	8H	16.43	17.60	16.85	17.99	18.39	16.78	17.96	17.21	18.35	18.75
	12H	16.42	17.54	16.85	17.92	18.35	16.76	17.88	17.19	18.26	18.69
4H	2H	15.08	16.42	15.48	16.77	17.14	15.86	17.19	16.26	17.54	17.92
	3H	16.66	17.77	17.07	18.17	18.57	17.21	18.31	17.62	18.71	19.11
	4H	17.14	18.13	17.57	18.54	18.98	17.48	18.47	17.91	18.88	19.32
	6H	17.38	18.24	17.83	18.68	19.14	17.53	18.39	17.98	18.83	19.29
	8H	17.40	18.20	17.86	18.65	19.11	17.50	18.31	17.97	18.75	19.22
	12H	17.40	18.12	17.88	18.59	19.06	17.48	18.20	17.96	18.68	19.15
8H	4H	17.27	18.08	17.74	18.52	18.99	17.59	18.39	18.05	18.84	19.30
	6H	17.55	18.21	18.05	18.70	19.18	17.65	18.31	18.15	18.80	19.28
	8H	17.59	18.18	18.10	18.69	19.18	17.63	18.22	18.14	18.73	19.21
	12H	17.60	18.12	18.11	18.61	19.18	17.61	18.13	18.12	18.62	19.19
12H	4H	17.26	17.97	17.74	18.45	18.92	17.58	18.30	18.06	18.77	19.25
	6H	17.52	18.11	18.03	18.62	19.11	17.63	18.22	18.14	18.73	19.22
	8H	17.58	18.10	18.09	18.60	19.16	17.63	18.15	18.14	18.64	19.20