

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: P1499719

Luminaire Tested: MAE-G-4-120-3STD-LO-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3STD-LO-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

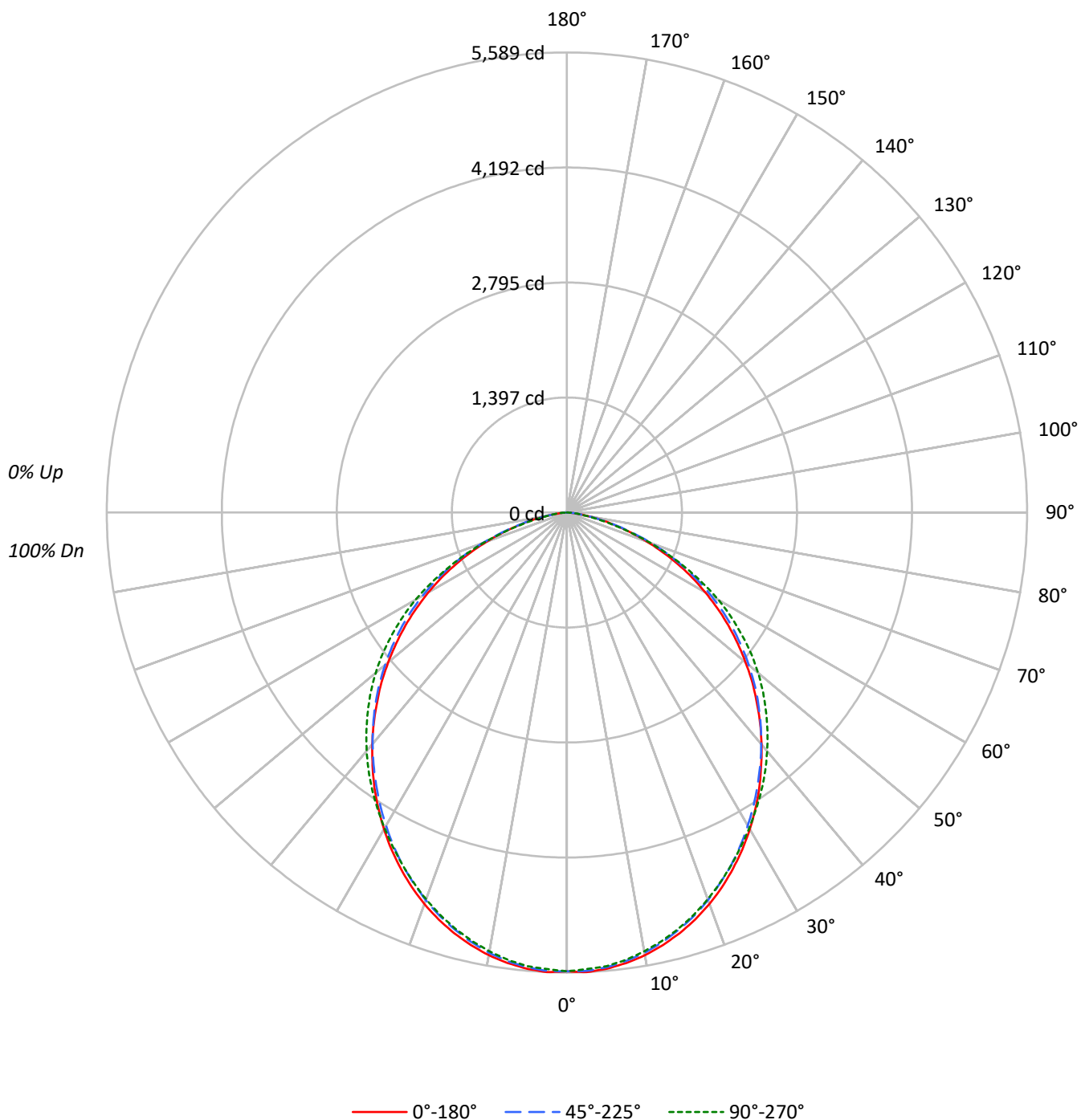
Lumens per Lamp: N/A
Luminaire Lumens: 13799.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 150.6
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: P1499719

CATALOG NUMBER: MAE-G-4-120-3STD-LO-40-VRDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499719

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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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7500	7500	7500
5°	7514	7492	7471
10°	7461	7421	7395
15°	7370	7310	7290
20°	7248	7176	7159
25°	7087	7013	7014
30°	6904	6827	6879
35°	6695	6635	6767
40°	6461	6448	6646
45°	6206	6256	6509
50°	5928	6036	6344
55°	5616	5779	6087
60°	5227	5445	5726
65°	4742	4983	5075
70°	4078	4298	4210
75°	3232	3356	3039
80°	2163	2108	1846
85°	1098	1244	1457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6509 cd/sqm

TEST NUMBER: P1499719

CATALOG NUMBER: MAE-G-4-120-3STD-LO-40-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.2	3.8
10°-20°	1478.7	10.7
20°-30°	2177.2	15.8
30°-40°	2541.0	18.4
40°-50°	2552.7	18.5
50°-60°	2209.8	16.0
60°-70°	1532.2	11.1
70°-80°	672.9	4.9
80°-90°	109.3	0.8
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°	4181.1	30.3
0°-40°	6722.1	48.7
0°-60°	11484.6	83.2
0°-90°	13799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5574	5574	5574	5574	5574	
5°	5564	5538	5547	5525	5532	528
15°	5291	5259	5248	5224	5234	1491
25°	4774	4740	4724	4702	4724	2198
35°	4076	4039	4040	4074	4120	2547
45°	3262	3241	3288	3371	3421	2517
55°	2394	2383	2464	2561	2595	2137
65°	1490	1499	1565	1591	1594	1472
75°	622	634	646	609	584	668
85°	71	74	81	91	94	106
90°	0	0	0	0	0	

TEST NUMBER: P1499719

CATALOG NUMBER: MAE-G-4-120-3STD-LO-40-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5574.4	5574.4	5574.4	5574.4	5574.4
2.5°	5589.1	5563.2	5574.4	5557.5	5551.5
5°	5563.6	5537.8	5546.9	5525.0	5531.8
7.5°	5520.3	5494.0	5498.0	5475.3	5482.1
10°	5461.3	5431.3	5431.6	5407.0	5412.8
12.5°	5382.9	5353.2	5348.7	5321.6	5331.7
15°	5291.1	5259.3	5248.1	5223.7	5233.5
17.5°	5184.4	5150.7	5137.9	5108.5	5123.7
20°	5061.9	5026.9	5011.4	4979.7	5000.2
22.5°	4924.9	4889.5	4870.5	4844.4	4866.2
25°	4773.9	4739.9	4723.8	4701.7	4724.5
27.5°	4615.3	4577.6	4563.3	4552.2	4577.1
30°	4443.6	4405.6	4393.9	4393.1	4427.7
32.5°	4262.1	4226.2	4219.5	4236.3	4275.8
35°	4076.3	4038.8	4039.5	4074.0	4119.8
37.5°	3876.3	3847.6	3857.8	3909.8	3956.5
40°	3678.4	3648.3	3671.4	3735.0	3783.7
42.5°	3473.8	3449.4	3482.0	3559.0	3604.9
45°	3261.5	3240.7	3288.0	3370.6	3420.6
47.5°	3054.1	3031.6	3089.4	3178.3	3231.6
50°	2832.1	2817.2	2883.7	2981.0	3030.9
52.5°	2613.2	2598.6	2675.1	2776.6	2823.8
55°	2394.0	2382.6	2463.5	2561.3	2595.0
57.5°	2167.5	2167.4	2248.5	2332.9	2367.2
60°	1942.4	1943.8	2023.4	2098.7	2128.0
62.5°	1717.1	1723.8	1797.0	1854.7	1862.0
65°	1489.6	1499.2	1565.2	1590.7	1594.1
67.5°	1260.1	1274.8	1331.3	1338.3	1334.7
70°	1036.5	1047.2	1092.6	1087.2	1070.2
72.5°	819.2	834.5	858.5	840.8	816.2
75°	621.8	634.0	645.6	608.6	584.5
77.5°	437.8	446.1	444.2	404.9	388.3
80°	279.1	288.1	272.1	249.3	238.2
82.5°	154.9	162.3	148.6	155.2	158.6
85°	71.1	74.1	80.6	90.6	94.4
87.5°	24.3	27.6	32.7	34.4	31.8
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	17.93	19.51	18.30	19.83	20.14	18.46	20.05	18.83	20.36	20.67
	3H	19.37	20.79	19.75	21.12	21.48	19.83	21.25	20.20	21.58	21.94
	4H	19.78	21.12	20.18	21.47	21.85	20.16	21.50	20.56	21.84	22.22
	6H	19.98	21.21	20.39	21.58	21.97	20.28	21.51	20.69	21.88	22.27
	8H	20.00	21.18	20.43	21.57	21.97	20.29	21.47	20.72	21.86	22.26
	12H	20.00	21.12	20.43	21.51	21.94	20.29	21.42	20.72	21.80	22.23
4H	2H	18.54	19.87	18.93	20.22	20.60	18.96	20.30	19.36	20.65	21.03
	3H	20.15	21.26	20.56	21.65	22.05	20.51	21.62	20.92	22.02	22.42
	4H	20.64	21.64	21.07	22.06	22.49	20.92	21.92	21.35	22.33	22.77
	6H	20.91	21.78	21.37	22.22	22.68	21.10	21.97	21.56	22.41	22.87
	8H	20.95	21.76	21.41	22.20	22.67	21.12	21.93	21.59	22.38	22.84
	12H	20.95	21.68	21.44	22.16	22.63	21.14	21.87	21.62	22.34	22.81
8H	4H	20.82	21.63	21.28	22.07	22.54	21.07	21.88	21.53	22.32	22.79
	6H	21.13	21.80	21.63	22.29	22.77	21.29	21.96	21.79	22.45	22.92
	8H	21.19	21.79	21.70	22.30	22.79	21.33	21.93	21.85	22.44	22.93
	12H	21.22	21.75	21.73	22.24	22.80	21.38	21.90	21.88	22.39	22.96
12H	4H	20.81	21.53	21.29	22.01	22.48	21.07	21.79	21.55	22.27	22.74
	6H	21.12	21.72	21.63	22.23	22.72	21.28	21.88	21.79	22.39	22.87
	8H	21.21	21.74	21.72	22.23	22.79	21.35	21.88	21.86	22.37	22.94