

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: P1499629

Luminaire Tested: MAE-G-4-120-3LO-LO-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499629
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-4-120-3LO-LO-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

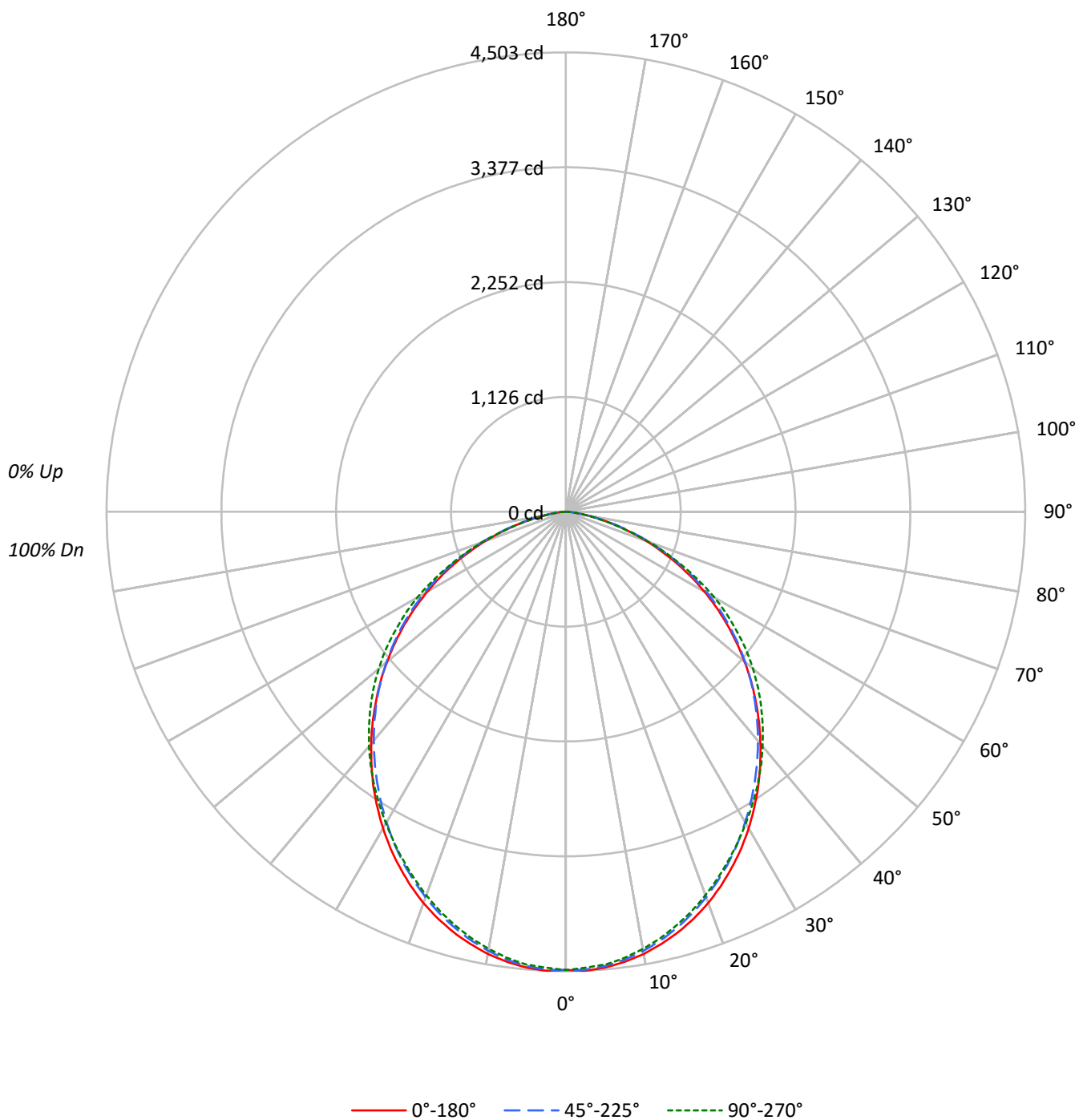
Lumens per Lamp: N/A
Luminaire Lumens: 11058.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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: P1499629

CATALOG NUMBER: MAE-G-4-120-3LO-LO-50-VRDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499629

CATALOG NUMBER: MAE-G-4-120-3LO-LO-50-VRDCPH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6044	6044	6044
5°	6055	6036	6016
10°	6013	5973	5944
15°	5940	5876	5846
20°	5843	5758	5728
25°	5715	5619	5599
30°	5568	5462	5480
35°	5402	5302	5378
40°	5214	5146	5271
45°	5010	4986	5152
50°	4788	4805	5012
55°	4537	4596	4807
60°	4225	4327	4531
65°	3838	3963	4050
70°	3305	3442	3412
75°	2626	2730	2545
80°	1767	1784	1650
85°	906	1115	1352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5152 cd/sqm

TEST NUMBER: P1499629

CATALOG NUMBER: MAE-G-4-120-3LO-LO-50-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.9	3.8
10°-20°	1188.6	10.7
20°-30°	1745.8	15.8
30°-40°	2032.8	18.4
40°-50°	2037.6	18.4
50°-60°	1761.1	15.9
60°-70°	1225.1	11.1
70°-80°	549.3	5.0
80°-90°	94.8	0.9
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°	3357.4	30.4
0°-40°	5390.2	48.7
0°-60°	9188.8	83.1
0°-90°	11058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4492	4492	4492	4492	4492	
5°	4483	4464	4469	4448	4454	425
15°	4264	4237	4219	4190	4197	1202
25°	3849	3815	3785	3757	3772	1772
35°	3289	3248	3228	3243	3274	2055
45°	2633	2604	2620	2673	2708	2032
55°	1934	1913	1959	2026	2049	1726
65°	1205	1202	1245	1268	1272	1191
75°	505	510	525	505	490	543
85°	59	63	72	83	88	87
90°	0	0	0	0	0	

TEST NUMBER: P1499629

CATALOG NUMBER: MAE-G-4-120-3LO-LO-50-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4492.1	4492.1	4492.1	4492.1	4492.1
2.5°	4503.4	4484.7	4492.1	4476.1	4472.9
5°	4483.1	4463.9	4468.9	4448.2	4454.2
7.5°	4448.3	4427.9	4427.7	4405.3	4410.8
10°	4401.1	4377.2	4372.1	4346.6	4350.9
12.5°	4338.2	4313.6	4302.5	4273.5	4280.8
15°	4264.4	4237.2	4218.6	4190.1	4196.7
17.5°	4178.8	4148.8	4126.5	4093.3	4104.1
20°	4080.5	4048.4	4021.6	3986.3	4000.5
22.5°	3970.5	3936.7	3905.9	3874.6	3888.8
25°	3849.3	3815.3	3785.2	3756.6	3771.5
27.5°	3721.9	3683.9	3653.8	3633.5	3650.0
30°	3583.9	3544.8	3515.7	3503.4	3526.9
32.5°	3438.2	3399.7	3374.1	3375.2	3402.4
35°	3288.7	3248.1	3227.7	3242.8	3274.4
37.5°	3127.9	3093.9	3080.5	3109.1	3141.3
40°	2968.6	2933.1	2929.6	2967.3	3001.2
42.5°	2803.7	2772.5	2776.7	2824.9	2856.5
45°	2633.1	2604.2	2620.3	2673.3	2707.8
47.5°	2465.5	2435.8	2460.8	2518.7	2555.9
50°	2287.2	2263.2	2295.6	2360.5	2394.6
52.5°	2110.2	2087.2	2128.4	2196.9	2229.7
55°	1933.9	1913.1	1959.1	2025.5	2049.1
57.5°	1751.5	1739.9	1787.3	1845.5	1870.1
60°	1570.1	1560.2	1608.0	1661.7	1683.7
62.5°	1388.4	1383.0	1428.3	1471.6	1478.8
65°	1205.4	1202.5	1244.8	1267.8	1272.2
67.5°	1020.5	1022.8	1061.2	1072.5	1071.9
70°	840.1	840.1	874.9	877.4	867.4
72.5°	664.9	670.0	692.2	686.2	670.2
75°	505.1	509.7	525.1	504.7	489.5
77.5°	356.3	360.2	366.6	344.3	334.7
80°	228.0	235.0	230.2	219.5	213.0
82.5°	127.3	134.4	130.3	140.0	144.4
85°	58.7	63.0	72.2	83.1	87.6
87.5°	20.0	23.8	29.5	31.5	29.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499629

CATALOG NUMBER: MAE-G-4-120-3LO-LO-50-VRDCPH

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	17.18	18.77	17.55	19.08	19.39	17.60	19.19	17.97	19.50	19.81
	3H	18.63	20.05	19.01	20.38	20.74	19.01	20.43	19.38	20.76	21.12
	4H	19.05	20.38	19.45	20.73	21.11	19.37	20.71	19.77	21.06	21.43
	6H	19.25	20.48	19.66	20.85	21.24	19.52	20.76	19.93	21.12	21.52
	8H	19.27	20.45	19.70	20.84	21.24	19.55	20.72	19.97	21.11	21.51
	12H	19.27	20.40	19.70	20.78	21.21	19.56	20.69	19.99	21.07	21.50
4H	2H	17.77	19.11	18.17	19.46	19.83	18.11	19.45	18.51	19.80	20.17
	3H	19.39	20.50	19.80	20.90	21.30	19.70	20.81	20.11	21.21	21.61
	4H	19.89	20.89	20.33	21.31	21.75	20.15	21.15	20.58	21.56	22.00
	6H	20.17	21.04	20.62	21.48	21.94	20.37	21.24	20.82	21.68	22.14
	8H	20.21	21.02	20.67	21.46	21.93	20.41	21.22	20.87	21.66	22.13
	12H	20.22	20.94	20.70	21.42	21.89	20.44	21.16	20.92	21.64	22.11
8H	4H	20.08	20.89	20.54	21.33	21.80	20.31	21.12	20.77	21.56	22.03
	6H	20.40	21.07	20.90	21.56	22.04	20.57	21.24	21.07	21.73	22.21
	8H	20.46	21.06	20.98	21.57	22.06	20.64	21.24	21.15	21.75	22.23
	12H	20.50	21.03	21.00	21.52	22.08	20.70	21.23	21.21	21.72	22.28
12H	4H	20.07	20.80	20.55	21.27	21.74	20.30	21.03	20.78	21.51	21.98
	6H	20.39	20.99	20.91	21.50	21.99	20.56	21.17	21.08	21.67	22.16
	8H	20.49	21.02	21.00	21.51	22.07	20.66	21.19	21.17	21.68	22.25