

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: P1499749

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499749
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-STD-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

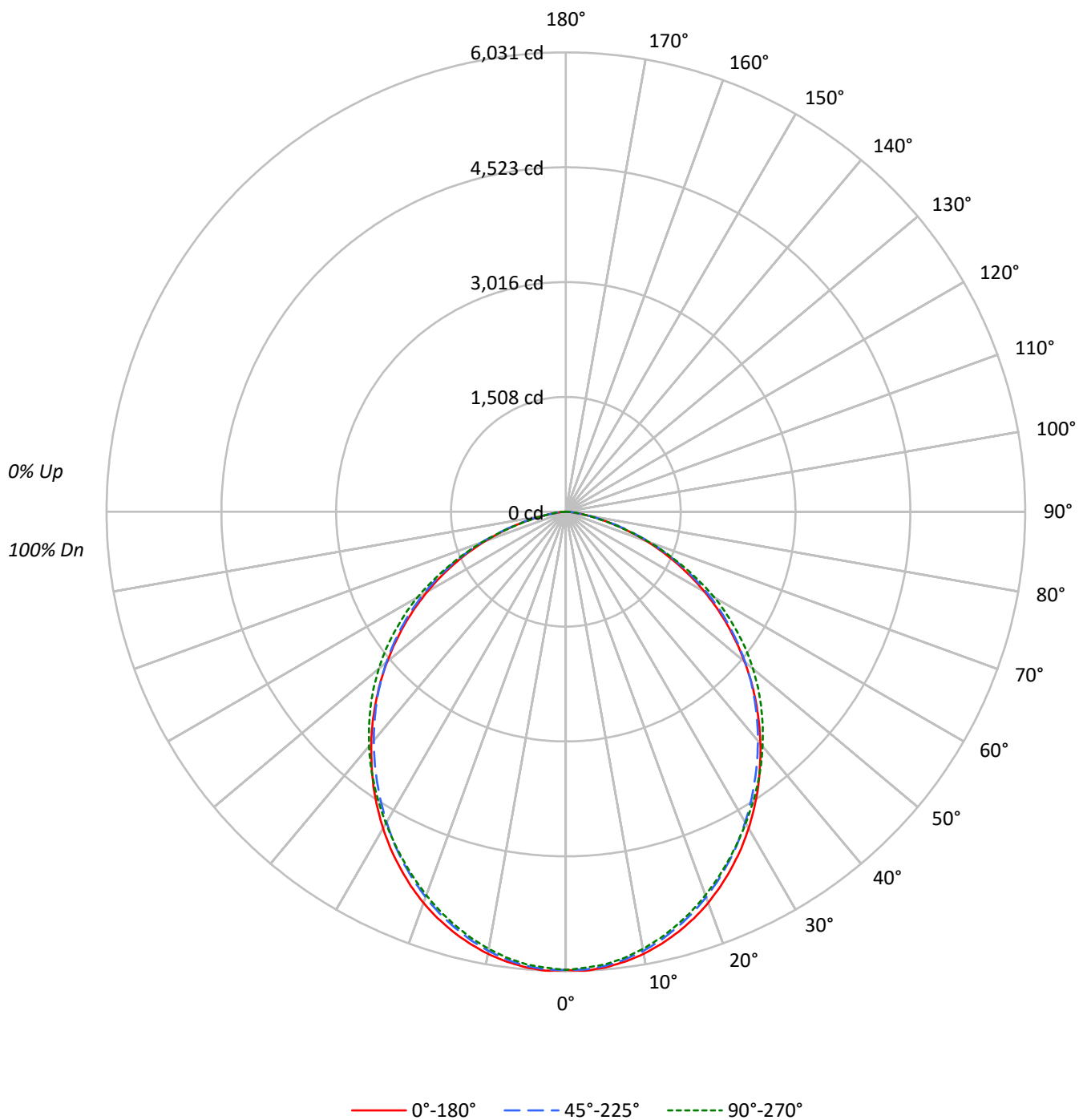
Lumens per Lamp: N/A
Luminaire Lumens: 14808.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 170.9
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: P1499749

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

Luminous Intensity Polar Plot



TEST NUMBER: P1499749

CATALOG NUMBER: MAE-G-4-120-3STD-STD-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	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	44	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	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8094	8094	8094
5°	8108	8083	8056
10°	8052	7999	7960
15°	7954	7869	7828
20°	7824	7711	7671
25°	7652	7525	7498
30°	7456	7314	7338
35°	7234	7100	7202
40°	6982	6891	7059
45°	6709	6677	6900
50°	6411	6435	6712
55°	6075	6154	6437
60°	5658	5794	6068
65°	5139	5307	5424
70°	4426	4609	4569
75°	3516	3656	3408
80°	2366	2390	2211
85°	1215	1491	1811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6900 cd/sqm

TEST NUMBER: P1499749

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.4	3.8
10°-20°	1591.7	10.7
20°-30°	2337.8	15.8
30°-40°	2722.2	18.4
40°-50°	2728.6	18.4
50°-60°	2358.3	15.9
60°-70°	1640.6	11.1
70°-80°	735.6	5.0
80°-90°	126.9	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°	4495.9	30.4
0°-40°	7218.1	48.7
0°-60°	12305.0	83.1
0°-90°	14808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6015	6015	6015	6015	6015	
5°	6003	5978	5984	5957	5965	569
15°	5710	5674	5649	5611	5620	1609
25°	5155	5109	5069	5030	5051	2373
35°	4404	4350	4322	4342	4385	2751
45°	3526	3487	3509	3580	3626	2721
55°	2590	2562	2624	2712	2744	2312
65°	1614	1610	1667	1698	1704	1595
75°	676	683	703	676	656	727
85°	79	84	97	111	117	117
90°	0	0	0	0	0	

TEST NUMBER: P1499749

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6015.4	6015.4	6015.4	6015.4	6015.4
2.5°	6030.6	6005.5	6015.4	5994.1	5989.7
5°	6003.4	5977.7	5984.3	5956.7	5964.7
7.5°	5956.8	5929.5	5929.2	5899.2	5906.5
10°	5893.5	5861.5	5854.7	5820.7	5826.4
12.5°	5809.4	5776.3	5761.6	5722.8	5732.4
15°	5710.5	5674.0	5649.2	5611.1	5619.9
17.5°	5595.9	5555.9	5525.8	5481.4	5495.9
20°	5464.2	5421.3	5385.3	5338.2	5357.1
22.5°	5316.9	5271.7	5230.5	5188.5	5207.5
25°	5154.6	5109.1	5068.8	5030.5	5050.6
27.5°	4983.9	4933.2	4892.8	4865.6	4887.8
30°	4799.3	4746.9	4707.9	4691.4	4723.0
32.5°	4604.3	4552.6	4518.3	4519.9	4556.2
35°	4404.0	4349.5	4322.4	4342.5	4384.8
37.5°	4188.7	4143.1	4125.2	4163.5	4206.6
40°	3975.3	3927.8	3923.1	3973.6	4019.0
42.5°	3754.6	3712.7	3718.4	3783.0	3825.3
45°	3526.0	3487.3	3508.8	3579.9	3626.0
47.5°	3301.6	3261.8	3295.3	3373.0	3422.8
50°	3062.9	3030.7	3074.1	3160.9	3206.6
52.5°	2825.8	2794.9	2850.3	2941.8	2985.9
55°	2589.8	2561.9	2623.5	2712.3	2744.0
57.5°	2345.6	2330.1	2393.5	2471.4	2504.4
60°	2102.5	2089.3	2153.3	2225.2	2254.8
62.5°	1859.2	1851.9	1912.7	1970.7	1980.4
65°	1614.2	1610.3	1667.0	1697.7	1703.6
67.5°	1366.5	1369.6	1421.0	1436.2	1435.3
70°	1125.1	1125.0	1171.6	1175.0	1161.5
72.5°	890.4	897.2	926.9	918.8	897.4
75°	676.3	682.6	703.2	675.9	655.5
77.5°	477.3	482.3	490.9	461.0	448.2
80°	305.3	314.7	308.4	294.0	285.3
82.5°	170.5	180.1	174.5	187.4	193.3
85°	78.7	84.2	96.6	111.2	117.3
87.5°	26.8	31.9	39.6	42.3	39.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499749

CATALOG NUMBER: MAE-G-4-120-3STD-STD-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	18.20	19.78	18.56	20.09	20.41	18.62	20.20	18.98	20.51	20.83
	3H	19.64	21.07	20.02	21.39	21.76	20.02	21.45	20.40	21.77	22.13
	4H	20.06	21.40	20.46	21.75	22.12	20.39	21.72	20.78	22.07	22.45
	6H	20.26	21.50	20.67	21.86	22.25	20.54	21.77	20.95	22.14	22.53
	8H	20.29	21.46	20.71	21.85	22.25	20.56	21.74	20.99	22.13	22.53
	12H	20.28	21.41	20.71	21.79	22.22	20.57	21.70	21.00	22.08	22.51
4H	2H	18.79	20.12	19.18	20.47	20.85	19.12	20.46	19.52	20.81	21.19
	3H	20.41	21.52	20.82	21.92	22.32	20.71	21.83	21.12	22.22	22.63
	4H	20.91	21.91	21.34	22.32	22.76	21.16	22.16	21.59	22.58	23.01
	6H	21.18	22.05	21.64	22.49	22.95	21.38	22.25	21.84	22.69	23.15
	8H	21.22	22.03	21.68	22.48	22.94	21.42	22.23	21.88	22.68	23.14
	12H	21.23	21.96	21.71	22.44	22.91	21.45	22.18	21.93	22.65	23.12
8H	4H	21.09	21.90	21.55	22.35	22.81	21.32	22.13	21.78	22.58	23.04
	6H	21.42	22.09	21.91	22.58	23.05	21.59	22.26	22.08	22.75	23.22
	8H	21.48	22.08	21.99	22.59	23.07	21.65	22.25	22.17	22.76	23.25
	12H	21.51	22.04	22.02	22.53	23.09	21.71	22.24	22.22	22.73	23.30
12H	4H	21.09	21.81	21.57	22.29	22.76	21.32	22.04	21.80	22.52	22.99
	6H	21.41	22.01	21.92	22.52	23.00	21.58	22.18	22.09	22.69	23.18
	8H	21.50	22.03	22.01	22.52	23.09	21.68	22.21	22.19	22.70	23.26