

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: P1499698

Luminaire Tested: MAE-G-4-120-3STD-HI-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499698
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-HI-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

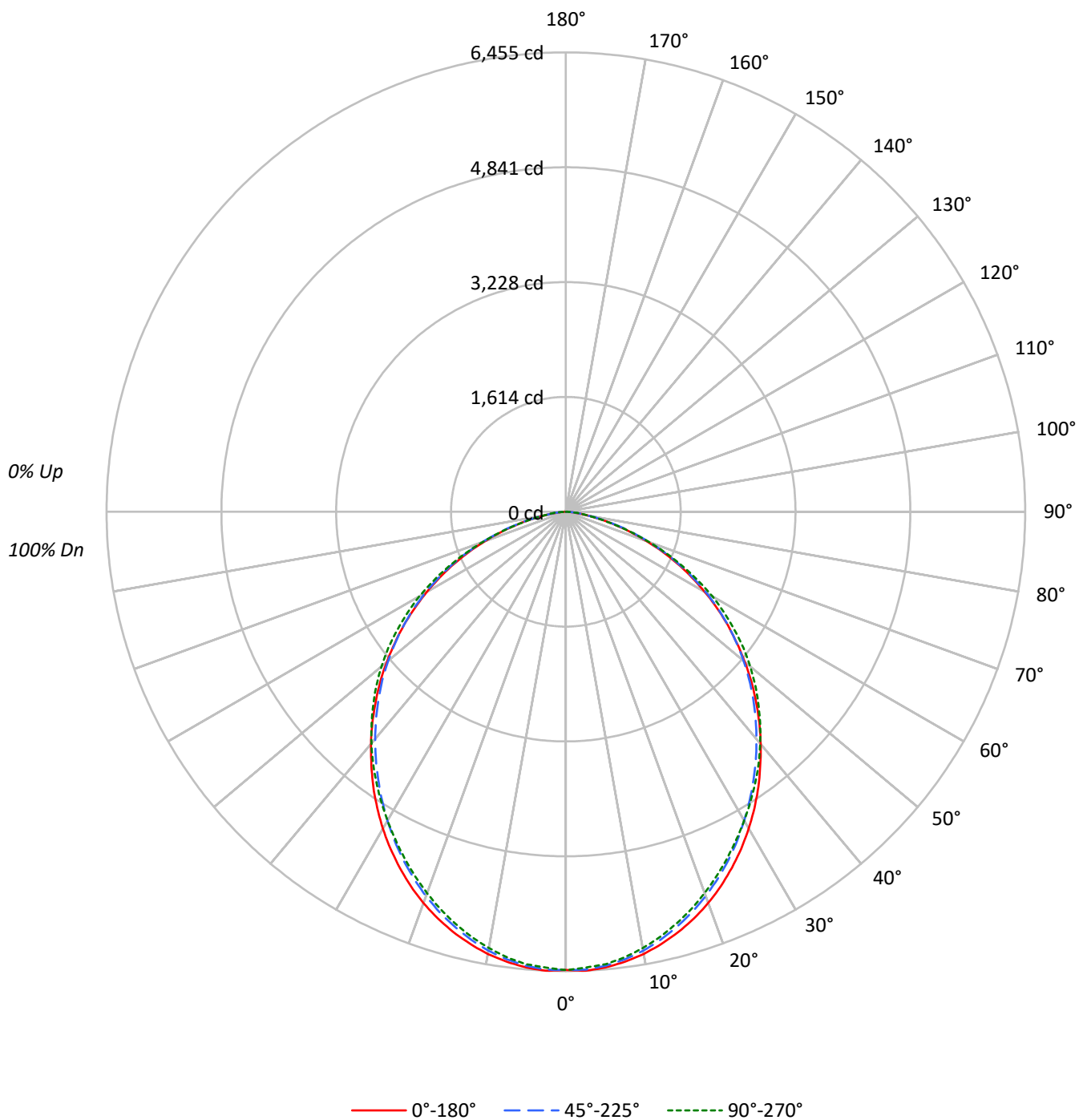
Lumens per Lamp: N/A
Luminaire Lumens: 15784.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 191.3
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: P1499698

CATALOG NUMBER: MAE-G-4-120-3STD-HI-50-90-VRDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499698

CATALOG NUMBER: MAE-G-4-120-3STD-HI-50-90-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		66	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	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8665	8665	8665
5°	8680	8651	8619
10°	8620	8556	8505
15°	8516	8408	8349
20°	8378	8228	8166
25°	8196	8021	7968
30°	7987	7787	7785
35°	7751	7551	7628
40°	7483	7321	7464
45°	7192	7086	7284
50°	6875	6823	7075
55°	6516	6521	6782
60°	6071	6136	6403
65°	5519	5624	5763
70°	4759	4910	4913
75°	3787	3941	3754
80°	2559	2651	2547
85°	1325	1718	2132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7284 cd/sqm

TEST NUMBER: P1499698

CATALOG NUMBER: MAE-G-4-120-3STD-HI-50-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.0	3.8
10°-20°	1700.6	10.8
20°-30°	2493.2	15.8
30°-40°	2897.8	18.4
40°-50°	2899.5	18.4
50°-60°	2502.8	15.9
60°-70°	1745.7	11.1
70°-80°	795.1	5.0
80°-90°	143.2	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°	4799.7	30.4
0°-40°	7697.5	48.8
0°-60°	13099.9	83.0
0°-90°	15784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6440	6440	6440	6440	6440	
5°	6426	6401	6405	6372	6381	610
15°	6114	6073	6036	5985	5993	1723
25°	5521	5464	5403	5350	5367	2542
35°	4719	4649	4597	4604	4644	2948
45°	3780	3725	3724	3785	3828	2916
55°	2778	2735	2780	2861	2891	2479
65°	1734	1718	1766	1802	1810	1713
75°	728	729	758	739	722	783
85°	86	94	111	130	138	126
90°	0	0	0	0	0	

TEST NUMBER: P1499698

CATALOG NUMBER: MAE-G-4-120-3STD-HI-50-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6439.7	6439.7	6439.7	6439.7	6439.7
2.5°	6455.2	6430.7	6439.7	6414.1	6411.2
5°	6426.4	6400.6	6405.0	6372.2	6381.4
7.5°	6376.7	6348.4	6344.1	6307.5	6315.5
10°	6309.3	6275.2	6262.1	6219.4	6225.1
12.5°	6219.5	6183.3	6159.4	6110.0	6119.3
15°	6113.8	6073.0	6035.8	5985.4	5993.4
17.5°	5991.5	5945.7	5900.1	5842.1	5856.0
20°	5851.1	5800.8	5746.5	5685.4	5703.0
22.5°	5693.7	5639.7	5578.6	5522.0	5538.9
25°	5520.6	5464.5	5402.6	5349.7	5367.3
27.5°	5338.3	5275.7	5211.8	5170.3	5190.0
30°	5141.1	5075.6	5012.2	4981.8	5010.7
32.5°	4933.0	4867.0	4808.1	4796.1	4829.8
35°	4718.8	4649.0	4597.0	4604.3	4643.9
37.5°	4488.7	4427.8	4384.8	4411.3	4451.4
40°	4260.5	4197.2	4167.9	4207.0	4249.6
42.5°	4024.2	3966.6	3948.4	4002.3	4041.6
45°	3779.9	3725.1	3723.9	3785.1	3828.0
47.5°	3539.2	3483.9	3495.9	3564.0	3611.0
50°	3284.4	3236.7	3259.7	3337.8	3379.9
52.5°	3029.8	2984.3	3021.3	3104.4	3145.9
55°	2777.6	2735.1	2779.7	2861.2	2891.0
57.5°	2516.3	2487.1	2535.1	2607.7	2639.7
60°	2256.1	2229.8	2280.3	2349.6	2379.6
62.5°	1995.5	1975.7	2025.8	2084.3	2096.2
65°	1733.6	1717.7	1766.5	1802.0	1810.1
67.5°	1468.4	1461.1	1508.4	1531.0	1532.4
70°	1209.8	1200.2	1248.0	1259.4	1248.9
72.5°	958.4	957.7	992.5	993.1	974.4
75°	728.5	729.3	758.1	739.3	722.2
77.5°	514.9	517.2	535.1	513.4	503.9
80°	330.2	340.0	342.2	335.2	328.7
82.5°	185.2	196.8	198.3	217.0	225.2
85°	85.8	93.8	111.3	130.1	138.1
87.5°	29.2	35.8	45.9	49.4	46.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499698

CATALOG NUMBER: MAE-G-4-120-3STD-HI-50-90-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	18.43	20.02	18.80	20.33	20.65	18.77	20.35	19.13	20.66	20.98
	3H	19.89	21.31	20.26	21.64	22.00	20.21	21.63	20.58	21.96	22.32
	4H	20.31	21.65	20.71	21.99	22.37	20.59	21.93	20.99	22.28	22.66
	6H	20.51	21.75	20.92	22.11	22.51	20.77	22.01	21.18	22.37	22.76
	8H	20.54	21.72	20.96	22.11	22.51	20.81	21.98	21.23	22.37	22.77
	12H	20.54	21.66	20.97	22.05	22.48	20.82	21.95	21.25	22.33	22.76
4H	2H	19.01	20.35	19.41	20.70	21.07	19.28	20.62	19.68	20.97	21.34
	3H	20.64	21.75	21.05	22.15	22.55	20.91	22.02	21.32	22.42	22.82
	4H	21.15	22.15	21.58	22.56	23.00	21.38	22.38	21.82	22.80	23.24
	6H	21.42	22.30	21.88	22.74	23.19	21.63	22.50	22.09	22.95	23.40
	8H	21.47	22.28	21.93	22.72	23.19	21.69	22.50	22.15	22.94	23.41
	12H	21.48	22.21	21.96	22.68	23.15	21.73	22.45	22.21	22.93	23.40
8H	4H	21.33	22.15	21.80	22.59	23.06	21.55	22.36	22.01	22.81	23.27
	6H	21.67	22.34	22.16	22.83	23.30	21.85	22.52	22.35	23.01	23.49
	8H	21.73	22.33	22.25	22.84	23.33	21.94	22.54	22.45	23.04	23.53
	12H	21.77	22.30	22.28	22.79	23.35	22.01	22.54	22.52	23.03	23.60
12H	4H	21.33	22.06	21.81	22.54	23.01	21.55	22.27	22.03	22.75	23.22
	6H	21.66	22.26	22.17	22.77	23.26	21.85	22.45	22.36	22.96	23.44
	8H	21.76	22.29	22.27	22.79	23.35	21.97	22.50	22.47	22.99	23.55