

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: P1499110

Luminaire Tested: MAE-G-4-120-1STD-HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

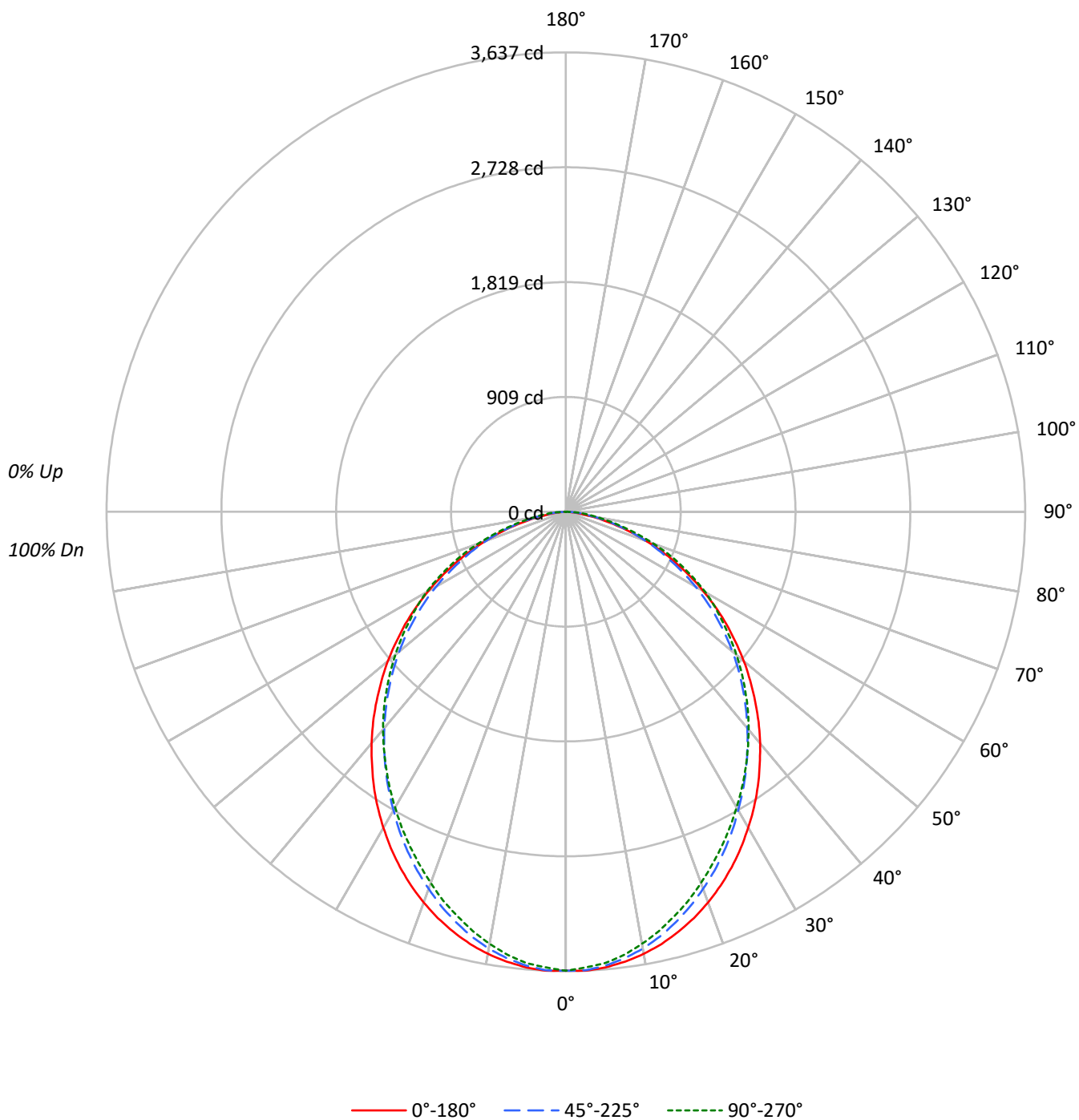
Lumens per Lamp: N/A
Luminaire Lumens: 8656.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 123
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: P1499110

CATALOG NUMBER: MAE-G-4-120-1STD-HI-35-90-VRDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499110

CATALOG NUMBER: MAE-G-4-120-1STD-HI-35-90-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	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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	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	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4889	4889	4889
5°	4891	4871	4845
10°	4856	4798	4746
15°	4796	4685	4618
20°	4714	4548	4480
25°	4611	4402	4338
30°	4487	4240	4201
35°	4355	4087	4074
40°	4203	3928	3955
45°	4033	3770	3824
50°	3852	3604	3689
55°	3641	3411	3551
60°	3383	3191	3436
65°	3083	2914	3221
70°	2678	2635	2911
75°	2142	2272	2454
80°	1487	1795	2007
85°	835	1396	1843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4033 cd/sqm

TEST NUMBER: P1499110

CATALOG NUMBER: MAE-G-4-120-1STD-HI-35-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.9	3.9
10°-20°	948.7	11.0
20°-30°	1375.2	15.9
30°-40°	1579.6	18.2
40°-50°	1560.6	18.0
50°-60°	1334.5	15.4
60°-70°	944.4	10.9
70°-80°	467.2	5.4
80°-90°	105.0	1.2
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°	2664.8	30.8
0°-40°	4244.4	49.0
0°-60°	7139.5	82.5
0°-90°	8656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3633	3633	3633	3633	3633	
5°	3621	3618	3606	3579	3587	343
15°	3443	3422	3364	3312	3315	970
25°	3106	3055	2965	2917	2922	1429
35°	2651	2581	2488	2467	2480	1656
45°	2119	2053	1981	1993	2010	1635
55°	1552	1491	1454	1486	1514	1386
65°	968	920	915	982	1012	958
75°	412	391	437	469	472	445
85°	54	67	90	111	119	76
90°	0	0	0	0	0	

TEST NUMBER: P1499110

CATALOG NUMBER: MAE-G-4-120-1STD-HI-35-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3633.4	3633.4	3633.4	3633.4	3633.4
2.5°	3637.4	3640.7	3633.4	3605.2	3610.7
5°	3621.1	3618.2	3606.5	3578.8	3587.1
7.5°	3592.3	3586.9	3565.8	3532.6	3537.9
10°	3554.3	3543.5	3511.6	3469.9	3473.8
12.5°	3504.8	3489.8	3444.8	3396.6	3400.4
15°	3443.0	3421.8	3363.7	3311.8	3315.2
17.5°	3372.2	3347.1	3276.3	3219.8	3228.3
20°	3292.0	3258.5	3176.6	3121.9	3128.5
22.5°	3203.2	3161.5	3074.9	3021.1	3025.1
25°	3105.6	3055.2	2965.1	2917.0	2922.0
27.5°	3000.6	2944.8	2851.1	2806.1	2815.1
30°	2888.3	2828.0	2729.0	2694.0	2703.9
32.5°	2772.8	2708.4	2610.2	2583.3	2593.1
35°	2651.4	2581.3	2488.1	2467.3	2480.1
37.5°	2521.5	2453.7	2361.1	2354.6	2366.2
40°	2392.7	2322.5	2236.1	2236.7	2251.5
42.5°	2258.6	2190.3	2110.2	2116.0	2133.6
45°	2119.4	2053.2	1981.4	1993.4	2009.8
47.5°	1979.2	1914.0	1852.7	1868.8	1889.2
50°	1840.1	1776.9	1721.7	1744.0	1762.4
52.5°	1693.5	1633.5	1590.1	1614.5	1640.1
55°	1552.1	1491.2	1454.3	1485.9	1513.9
57.5°	1405.6	1354.1	1321.5	1361.8	1398.0
60°	1257.3	1206.8	1185.9	1241.1	1276.7
62.5°	1111.6	1062.4	1048.5	1116.6	1144.1
65°	968.3	920.1	915.2	982.1	1011.6
67.5°	825.6	782.0	793.2	860.2	880.8
70°	680.8	641.7	669.7	728.0	740.0
72.5°	544.4	511.9	553.4	597.1	602.0
75°	412.1	391.4	437.0	468.7	472.1
77.5°	295.3	284.4	328.2	352.2	356.4
80°	191.9	196.0	231.7	251.4	259.0
82.5°	112.1	122.7	151.0	177.9	185.7
85°	54.1	66.7	90.4	110.8	119.4
87.5°	18.6	27.0	37.9	42.2	41.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499110

CATALOG NUMBER: MAE-G-4-120-1STD-HI-35-90-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	16.33	17.91	16.69	18.23	18.54	16.36	17.95	16.73	18.26	18.58
	3H	17.79	19.21	18.16	19.54	19.90	18.05	19.47	18.43	19.80	20.16
	4H	18.22	19.56	18.62	19.91	20.28	18.59	19.93	18.99	20.27	20.65
	6H	18.45	19.68	18.86	20.05	20.44	18.92	20.16	19.33	20.53	20.92
	8H	18.48	19.66	18.91	20.05	20.45	19.02	20.21	19.45	20.59	20.99
	12H	18.49	19.62	18.92	20.00	20.43	19.10	20.23	19.53	20.61	21.04
4H	2H	16.83	18.17	17.23	18.52	18.89	16.86	18.20	17.26	18.55	18.92
	3H	18.48	19.59	18.89	19.99	20.39	18.75	19.87	19.16	20.27	20.67
	4H	19.00	20.00	19.43	20.42	20.85	19.41	20.41	19.84	20.83	21.26
	6H	19.30	20.18	19.76	20.62	21.08	19.85	20.73	20.31	21.17	21.63
	8H	19.36	20.18	19.82	20.62	21.09	19.99	20.81	20.46	21.25	21.72
	12H	19.39	20.12	19.87	20.60	21.07	20.11	20.84	20.59	21.32	21.79
8H	4H	19.23	20.05	19.69	20.49	20.96	19.60	20.42	20.06	20.86	21.33
	6H	19.60	20.28	20.10	20.77	21.25	20.13	20.81	20.63	21.30	21.77
	8H	19.70	20.30	20.21	20.81	21.30	20.33	20.94	20.84	21.45	21.93
	12H	19.75	20.29	20.26	20.78	21.34	20.51	21.04	21.02	21.54	22.10
12H	4H	19.24	19.98	19.72	20.45	20.92	19.60	20.33	20.08	20.81	21.28
	6H	19.63	20.24	20.14	20.75	21.23	20.14	20.75	20.65	21.25	21.74
	8H	19.77	20.30	20.27	20.79	21.35	20.39	20.92	20.89	21.41	21.97

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

7 of 7