

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: P1498972

Luminaire Tested: MAE-G-4-120-1HI-STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498972
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-4-120-1HI-STD-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

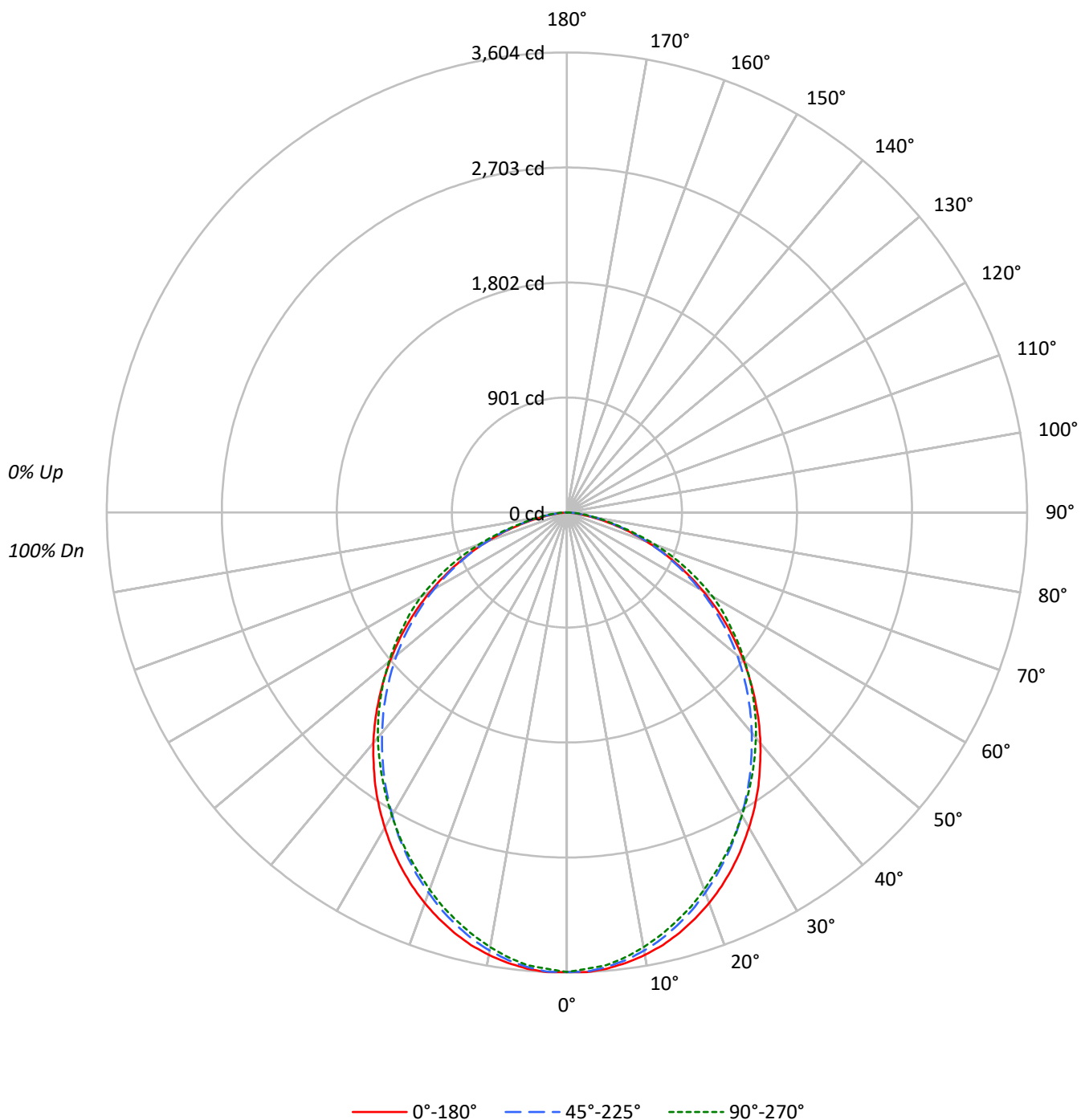
Lumens per Lamp: N/A
Luminaire Lumens: 8654.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.8
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: P1498972

CATALOG NUMBER: MAE-G-4-120-1HI-STD-40-90-VRDCPH

Luminous Intensity Polar Plot



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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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	85	79	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	61		
4	84	73	64	58	82	71	63	57	69	62	57	66	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	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4843	4843	4843
5°	4845	4827	4807
10°	4809	4762	4723
15°	4748	4662	4618
20°	4662	4538	4500
25°	4557	4403	4379
30°	4430	4251	4259
35°	4296	4108	4148
40°	4141	3956	4045
45°	3968	3805	3928
50°	3785	3643	3807
55°	3573	3452	3675
60°	3311	3231	3550
65°	3009	2939	3274
70°	2607	2626	2876
75°	2076	2205	2297
80°	1430	1662	1760
85°	795	1240	1585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3968 cd/sqm

TEST NUMBER: P1498972

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	3.9
10°-20°	944.1	10.9
20°-30°	1374.4	15.9
30°-40°	1584.8	18.3
40°-50°	1571.5	18.2
50°-60°	1347.4	15.6
60°-70°	947.1	10.9
70°-80°	451.6	5.2
80°-90°	94.9	1.1
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°	2656.6	30.7
0°-40°	4241.4	49.0
0°-60°	7160.3	82.7
0°-90°	8654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3600	3600	3600	3600	3600	
5°	3587	3584	3574	3551	3559	340
15°	3408	3392	3346	3309	3315	960
25°	3070	3030	2966	2938	2950	1413
35°	2615	2562	2501	2503	2526	1634
45°	2086	2039	2000	2037	2064	1609
55°	1523	1480	1471	1527	1566	1360
65°	945	912	923	996	1028	935
75°	399	385	424	445	442	431
85°	52	62	80	96	103	73
90°	0	0	0	0	0	

TEST NUMBER: P1498972

CATALOG NUMBER: MAE-G-4-120-1HI-STD-40-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3599.8	3599.8	3599.8	3599.8	3599.8
2.5°	3604.1	3606.8	3599.8	3573.9	3577.7
5°	3587.2	3584.0	3574.2	3551.1	3558.8
7.5°	3558.3	3553.8	3536.2	3509.4	3514.6
10°	3520.0	3511.0	3485.4	3452.2	3457.1
12.5°	3470.5	3458.9	3423.0	3386.2	3391.8
15°	3408.3	3391.5	3346.5	3309.0	3315.1
17.5°	3336.9	3318.5	3264.6	3224.2	3236.2
20°	3256.1	3230.7	3169.1	3131.9	3143.1
22.5°	3167.3	3135.0	3071.2	3036.3	3046.4
25°	3069.5	3030.0	2965.8	2938.1	2949.8
27.5°	2963.9	2920.8	2855.9	2831.7	2848.3
30°	2851.4	2805.3	2736.2	2723.6	2741.6
32.5°	2736.2	2687.5	2619.8	2616.4	2634.5
35°	2615.2	2561.8	2500.8	2503.4	2525.6
37.5°	2485.6	2434.9	2375.2	2393.7	2415.0
40°	2357.7	2305.1	2252.1	2278.2	2302.9
42.5°	2224.5	2174.4	2127.5	2158.8	2187.4
45°	2085.5	2038.7	1999.6	2036.8	2064.5
47.5°	1946.4	1899.6	1870.9	1912.4	1944.4
50°	1808.3	1763.9	1740.3	1787.8	1818.8
52.5°	1663.8	1621.3	1608.4	1657.7	1695.5
55°	1523.0	1479.8	1471.4	1527.4	1566.5
57.5°	1377.9	1344.1	1337.7	1400.1	1447.7
60°	1230.4	1196.6	1200.8	1275.7	1319.3
62.5°	1086.7	1053.2	1059.9	1143.9	1173.4
65°	945.1	911.6	923.2	996.4	1028.3
67.5°	805.6	774.3	797.7	865.1	885.5
70°	662.8	635.2	667.6	722.8	731.0
72.5°	529.3	505.6	545.9	581.5	581.5
75°	399.3	385.4	424.2	444.8	441.8
77.5°	285.6	278.1	312.2	323.8	321.6
80°	184.6	188.8	214.5	222.6	227.2
82.5°	107.5	116.2	135.7	156.4	161.2
85°	51.5	62.1	80.3	96.3	102.7
87.5°	18.0	25.0	33.2	36.7	35.8
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	16.26	17.84	16.63	18.16	18.47	16.57	18.15	16.93	18.46	18.78
	3H	17.70	19.12	18.08	19.45	19.81	18.17	19.60	18.55	19.92	20.28
	4H	18.12	19.46	18.52	19.81	20.19	18.64	19.98	19.04	20.32	20.70
	6H	18.34	19.58	18.75	19.94	20.33	18.90	20.13	19.31	20.50	20.89
	8H	18.37	19.55	18.80	19.94	20.34	18.97	20.15	19.39	20.54	20.94
	12H	18.38	19.50	18.80	19.89	20.31	19.02	20.15	19.45	20.53	20.96
4H	2H	16.79	18.13	17.19	18.48	18.85	17.04	18.38	17.44	18.73	19.10
	3H	18.41	19.53	18.82	19.92	20.33	18.85	19.96	19.26	20.36	20.76
	4H	18.92	19.92	19.35	20.34	20.77	19.42	20.42	19.85	20.84	21.27
	6H	19.21	20.09	19.67	20.53	20.99	19.77	20.65	20.23	21.09	21.55
	8H	19.27	20.08	19.73	20.52	20.99	19.88	20.69	20.34	21.13	21.60
	12H	19.29	20.02	19.77	20.49	20.96	19.96	20.69	20.44	21.17	21.64
8H	4H	19.14	19.95	19.60	20.40	20.86	19.59	20.41	20.05	20.85	21.32
	6H	19.50	20.17	19.99	20.66	21.13	20.02	20.69	20.51	21.18	21.66
	8H	19.58	20.18	20.09	20.69	21.18	20.17	20.77	20.68	21.28	21.77
	12H	19.63	20.16	20.14	20.65	21.22	20.31	20.84	20.81	21.33	21.89
12H	4H	19.15	19.88	19.63	20.35	20.82	19.59	20.32	20.07	20.80	21.27
	6H	19.51	20.12	20.02	20.62	21.11	20.02	20.62	20.53	21.13	21.62
	8H	19.63	20.17	20.14	20.66	21.22	20.21	20.75	20.72	21.24	21.80

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

7 of 7