

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: P1499020

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499020
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-4-120-1LO-HI-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

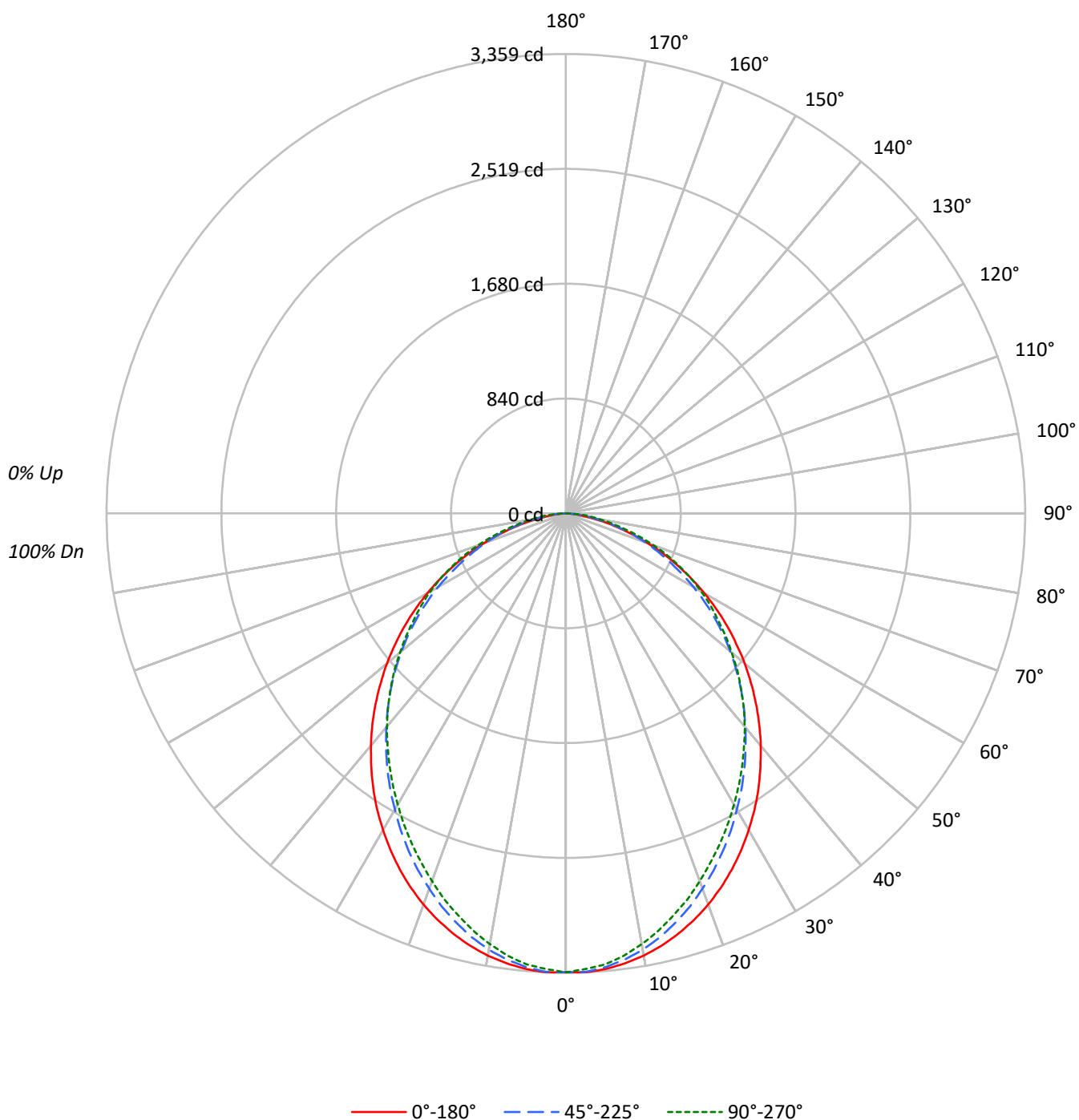
Lumens per Lamp: N/A
Luminaire Lumens: 7946.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.9
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: P1499020

CATALOG NUMBER: MAE-G-4-120-1LO-HI-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4515	4515	4515
5°	4517	4498	4470
10°	4486	4426	4370
15°	4432	4315	4238
20°	4358	4181	4098
25°	4265	4040	3956
30°	4154	3885	3819
35°	4034	3738	3693
40°	3895	3587	3574
45°	3741	3439	3446
50°	3576	3284	3313
55°	3384	3107	3183
60°	3150	2904	3083
65°	2875	2658	2923
70°	2502	2424	2694
75°	2007	2126	2349
80°	1400	1731	1994
85°	789	1379	1849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3741 cd/sqm

TEST NUMBER: P1499020

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	4.0
10°-20°	873.5	11.0
20°-30°	1262.8	15.9
30°-40°	1446.6	18.2
40°-50°	1425.6	17.9
50°-60°	1216.8	15.3
60°-70°	865.0	10.9
70°-80°	438.4	5.5
80°-90°	102.6	1.3
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°	2450.9	30.8
0°-40°	3897.5	49.0
0°-60°	6540.0	82.3
0°-90°	7946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3356	3356	3356	3356	3356	
5°	3344	3342	3330	3302	3310	317
15°	3182	3159	3098	3041	3043	897
25°	2873	2820	2721	2664	2665	1322
35°	2456	2381	2276	2242	2248	1534
45°	1966	1894	1807	1803	1811	1516
55°	1442	1376	1324	1338	1357	1288
65°	903	850	835	893	918	893
75°	386	363	409	445	452	416
85°	51	64	89	110	120	72
90°	0	0	0	0	0	

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3355.5	3355.5	3355.5	3355.5	3355.5
2.5°	3359.1	3362.5	3355.5	3328.2	3334.4
5°	3344.5	3342.0	3330.1	3301.8	3309.8
7.5°	3318.2	3312.6	3291.1	3256.6	3261.5
10°	3283.4	3272.4	3239.4	3195.6	3198.6
12.5°	3238.0	3222.2	3175.1	3123.8	3126.2
15°	3181.5	3159.3	3098.0	3041.4	3042.8
17.5°	3116.9	3089.7	3014.4	2952.6	2958.2
20°	3043.6	3007.8	2920.1	2859.3	2862.3
22.5°	2962.2	2918.0	2824.5	2763.4	2763.4
25°	2872.7	2819.7	2721.1	2664.3	2664.8
27.5°	2776.6	2717.7	2613.7	2559.7	2563.3
30°	2673.8	2609.7	2500.4	2454.5	2458.4
32.5°	2567.6	2498.7	2389.9	2350.5	2354.4
35°	2455.8	2381.2	2275.8	2242.4	2248.3
37.5°	2336.5	2263.6	2158.3	2136.9	2141.7
40°	2217.7	2142.4	2042.5	2027.3	2034.7
42.5°	2094.0	2020.2	1926.2	1915.7	1925.1
45°	1966.2	1893.5	1807.4	1802.8	1810.8
47.5°	1836.7	1765.6	1689.3	1688.3	1700.1
50°	1708.5	1638.9	1568.7	1573.6	1582.7
52.5°	1572.6	1506.7	1448.2	1455.2	1471.1
55°	1442.5	1375.8	1324.3	1338.1	1357.1
57.5°	1307.3	1249.0	1203.0	1226.2	1252.6
60°	1170.5	1113.9	1079.3	1117.8	1145.5
62.5°	1035.5	980.7	955.3	1008.0	1032.0
65°	902.9	849.7	835.0	892.6	918.1
67.5°	770.0	722.5	725.2	786.6	805.5
70°	636.0	593.0	616.1	671.4	684.7
72.5°	508.9	473.7	512.5	557.7	565.3
75°	386.1	362.8	408.9	444.9	451.9
77.5°	277.0	264.9	311.2	340.8	348.7
80°	180.7	184.4	223.4	248.5	257.3
82.5°	105.8	116.6	148.1	176.5	185.5
85°	51.1	64.0	89.3	110.5	119.8
87.5°	17.4	26.1	37.7	42.1	40.9
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	16.07	17.66	16.44	17.97	18.29	15.93	17.51	16.29	17.82	18.14
	3H	17.55	18.97	17.92	19.30	19.66	17.67	19.09	18.05	19.42	19.78
	4H	17.99	19.33	18.39	19.68	20.05	18.26	19.60	18.65	19.94	20.32
	6H	18.22	19.46	18.63	19.82	20.21	18.65	19.89	19.06	20.25	20.64
	8H	18.26	19.44	18.68	19.83	20.23	18.77	19.96	19.20	20.35	20.75
	12H	18.26	19.40	18.69	19.78	20.21	18.87	20.00	19.29	20.38	20.81
4H	2H	16.56	17.90	16.96	18.25	18.63	16.44	17.78	16.84	18.13	18.50
	3H	18.22	19.34	18.63	19.74	20.14	18.39	19.51	18.80	19.91	20.31
	4H	18.75	19.76	19.18	20.17	20.61	19.10	20.11	19.54	20.53	20.96
	6H	19.07	19.95	19.52	20.39	20.84	19.61	20.49	20.07	20.93	21.39
	8H	19.13	19.95	19.59	20.39	20.86	19.78	20.60	20.24	21.05	21.51
	12H	19.16	19.89	19.64	20.37	20.84	19.92	20.65	20.40	21.13	21.60
8H	4H	18.99	19.81	19.45	20.25	20.72	19.31	20.13	19.77	20.57	21.04
	6H	19.38	20.06	19.87	20.55	21.02	19.91	20.59	20.41	21.08	21.56
	8H	19.48	20.09	19.99	20.59	21.08	20.15	20.76	20.66	21.27	21.75
	12H	19.54	20.07	20.05	20.57	21.13	20.36	20.89	20.86	21.39	21.95
12H	4H	19.01	19.74	19.49	20.22	20.69	19.31	20.04	19.79	20.52	20.99
	6H	19.41	20.02	19.92	20.53	21.02	19.93	20.54	20.44	21.04	21.53
	8H	19.56	20.09	20.06	20.58	21.15	20.21	20.75	20.72	21.24	21.80