

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: P1499009

Luminaire Tested: MAE-G-4-120-1LO-HI-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499009
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-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

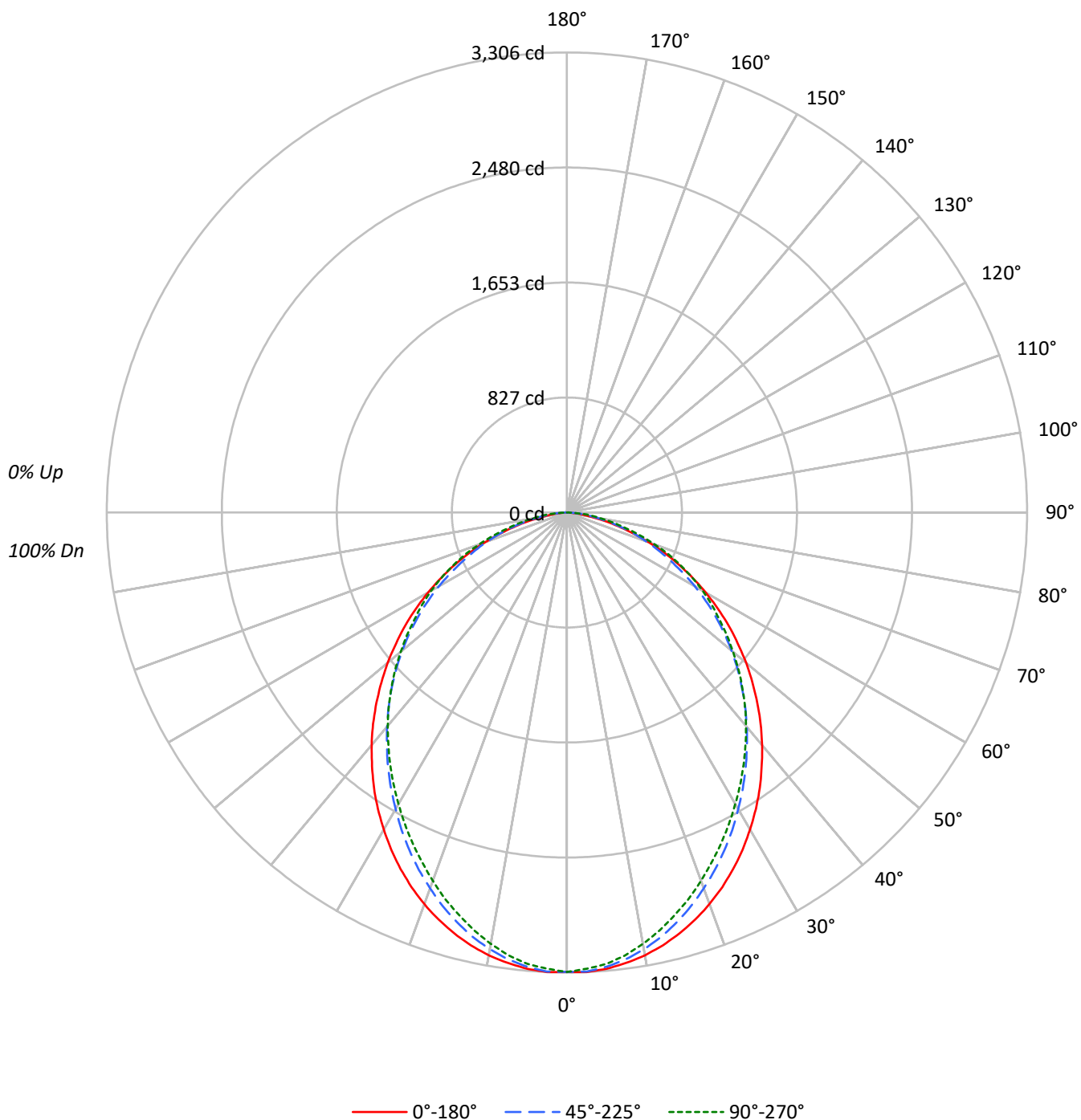
Lumens per Lamp: N/A
Luminaire Lumens: 7819.0 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1499009

CATALOG NUMBER: MAE-G-4-120-1LO-HI-30-90-WDDCPH

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°	4443	4443	4443
5°	4445	4426	4399
10°	4414	4355	4300
15°	4361	4246	4171
20°	4288	4114	4033
25°	4197	3975	3893
30°	4088	3823	3758
35°	3969	3678	3634
40°	3833	3530	3517
45°	3681	3384	3391
50°	3519	3231	3260
55°	3330	3057	3133
60°	3099	2858	3033
65°	2829	2616	2876
70°	2462	2385	2650
75°	1975	2092	2312
80°	1378	1702	1962
85°	775	1357	1820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3681 cd/sqm

TEST NUMBER: P1499009

CATALOG NUMBER: MAE-G-4-120-1LO-HI-30-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.6	4.0
10°-20°	859.6	11.0
20°-30°	1242.6	15.9
30°-40°	1423.5	18.2
40°-50°	1402.9	17.9
50°-60°	1197.4	15.3
60°-70°	851.2	10.9
70°-80°	431.4	5.5
80°-90°	101.0	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°	2411.7	30.8
0°-40°	3835.2	49.0
0°-60°	6435.4	82.3
0°-90°	7819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3302	3302	3302	3302	3302	
5°	3291	3289	3277	3249	3257	312
15°	3131	3109	3048	2993	2994	882
25°	2827	2775	2678	2622	2622	1301
35°	2416	2343	2240	2206	2212	1510
45°	1935	1863	1778	1774	1782	1492
55°	1419	1354	1303	1317	1335	1267
65°	888	836	822	878	903	879
75°	380	357	402	438	445	410
85°	50	63	88	109	118	71
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-1LO-HI-30-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3301.8	3301.8	3301.8	3301.8	3301.8
2.5°	3305.5	3308.8	3301.8	3274.9	3281.1
5°	3291.0	3288.6	3276.8	3249.0	3256.8
7.5°	3265.2	3259.8	3238.5	3204.7	3209.4
10°	3231.0	3220.1	3187.6	3144.6	3147.5
12.5°	3186.2	3170.8	3124.4	3073.9	3076.3
15°	3130.7	3108.8	3048.5	2992.8	2994.2
17.5°	3067.0	3040.3	2966.2	2905.4	2911.0
20°	2995.0	2959.8	2873.5	2813.5	2816.5
22.5°	2914.9	2871.4	2779.4	2719.3	2719.3
25°	2826.8	2774.6	2677.6	2621.7	2622.2
27.5°	2732.3	2674.3	2571.9	2518.8	2522.3
30°	2631.1	2567.9	2460.4	2415.3	2419.1
32.5°	2526.5	2458.8	2351.6	2313.0	2316.8
35°	2416.5	2343.1	2239.5	2206.5	2212.4
37.5°	2299.1	2227.5	2123.8	2102.7	2107.4
40°	2182.3	2108.2	2009.9	1994.8	2002.2
42.5°	2060.6	1988.0	1895.4	1885.2	1894.2
45°	1934.7	1863.2	1778.5	1774.0	1781.9
47.5°	1807.3	1737.4	1662.2	1661.4	1672.9
50°	1681.1	1612.7	1543.7	1548.4	1557.4
52.5°	1547.4	1482.6	1425.0	1431.9	1447.6
55°	1419.4	1353.9	1303.2	1316.8	1335.4
57.5°	1286.4	1229.0	1183.7	1206.7	1232.5
60°	1151.8	1096.1	1062.1	1099.9	1127.2
62.5°	1019.0	965.1	940.0	991.9	1015.5
65°	888.5	836.2	821.6	878.3	903.4
67.5°	757.7	710.9	713.6	773.9	792.6
70°	625.8	583.5	606.2	660.7	673.7
72.5°	500.8	466.1	504.3	548.8	556.3
75°	379.9	357.1	402.4	437.8	444.7
77.5°	272.5	260.7	306.3	335.3	343.1
80°	177.8	181.4	219.7	244.6	253.2
82.5°	104.1	114.7	145.7	173.7	182.5
85°	50.2	63.0	87.9	108.8	117.9
87.5°	17.1	25.6	37.2	41.4	40.3
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	16.02	17.60	16.38	17.92	18.23	15.87	17.45	16.24	17.77	18.08
	3H	17.49	18.92	17.87	19.24	19.60	17.61	19.04	17.99	19.37	19.73
	4H	17.93	19.27	18.33	19.62	20.00	18.20	19.54	18.60	19.89	20.27
	6H	18.16	19.40	18.57	19.77	20.16	18.59	19.83	19.00	20.20	20.59
	8H	18.20	19.38	18.63	19.77	20.17	18.72	19.90	19.14	20.29	20.69
	12H	18.21	19.34	18.64	19.72	20.15	18.81	19.94	19.24	20.32	20.75
4H	2H	16.50	17.84	16.90	18.19	18.57	16.38	17.72	16.78	18.07	18.45
	3H	18.17	19.29	18.58	19.68	20.08	18.34	19.45	18.75	19.85	20.25
	4H	18.69	19.70	19.13	20.12	20.55	19.05	20.06	19.48	20.47	20.91
	6H	19.01	19.89	19.47	20.33	20.79	19.56	20.43	20.01	20.88	21.33
	8H	19.07	19.89	19.53	20.34	20.80	19.73	20.55	20.19	20.99	21.46
	12H	19.10	19.83	19.58	20.31	20.78	19.86	20.60	20.34	21.07	21.54
8H	4H	18.93	19.75	19.40	20.20	20.66	19.25	20.07	19.71	20.51	20.98
	6H	19.32	20.00	19.82	20.49	20.97	19.86	20.54	20.35	21.03	21.50
	8H	19.42	20.03	19.93	20.54	21.02	20.09	20.70	20.61	21.21	21.70
	12H	19.48	20.02	19.99	20.51	21.07	20.30	20.84	20.81	21.33	21.89
12H	4H	18.95	19.69	19.44	20.17	20.64	19.25	19.99	19.74	20.47	20.94
	6H	19.36	19.97	19.87	20.47	20.96	19.87	20.48	20.38	20.99	21.48
	8H	19.50	20.04	20.01	20.53	21.09	20.15	20.69	20.66	21.18	21.75