

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: P1499063

Luminaire Tested: MAE-G-4-120-1LO-STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499063
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-STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

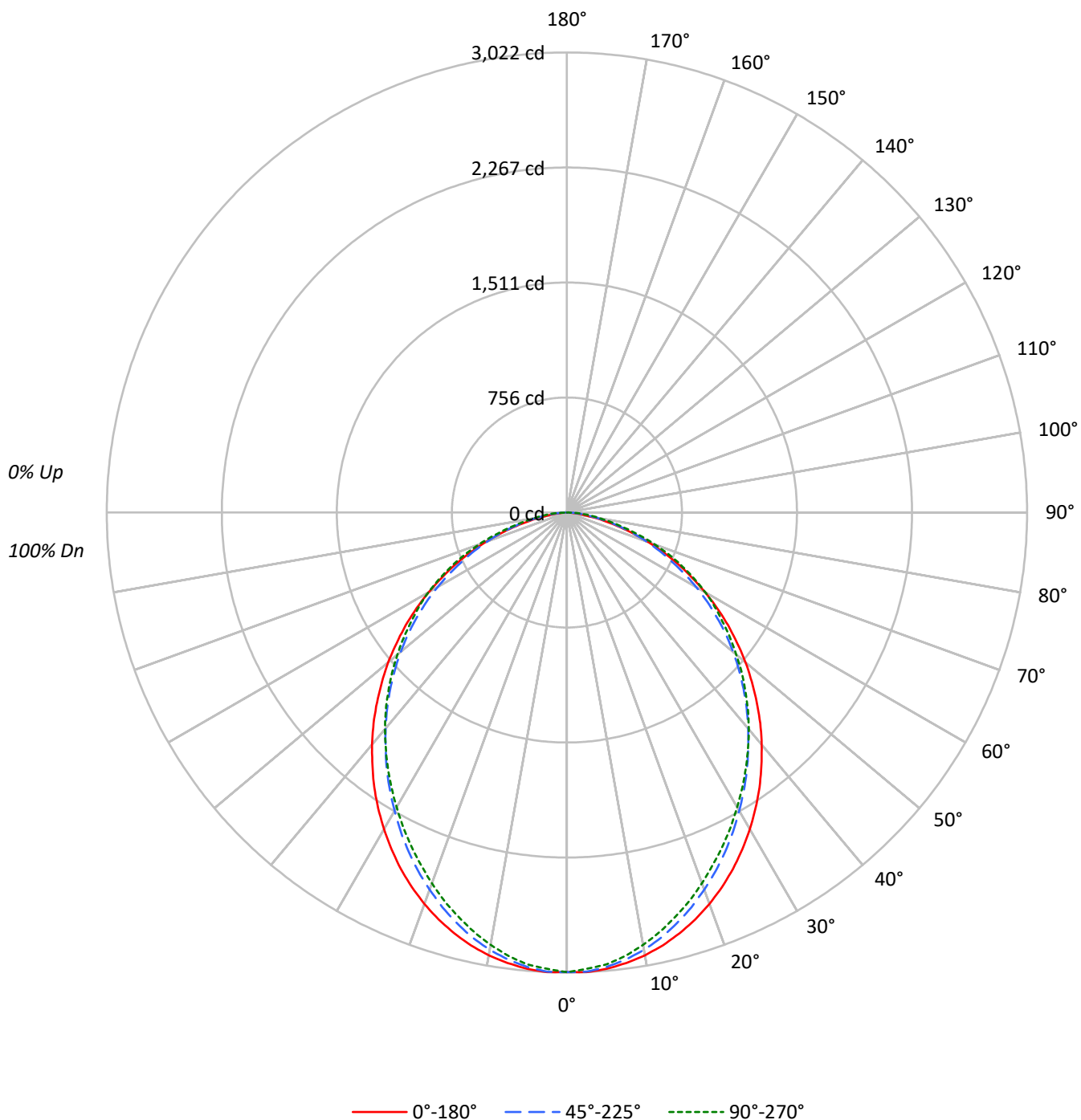
Lumens per Lamp: N/A
Luminaire Lumens: 7179.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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: P1499063

CATALOG NUMBER: MAE-G-4-120-1LO-STD-35-90-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	73	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°	4062	4062	4062
5°	4064	4047	4024
10°	4035	3985	3940
15°	3986	3890	3830
20°	3918	3774	3711
25°	3833	3650	3591
30°	3732	3514	3474
35°	3622	3386	3366
40°	3496	3252	3264
45°	3356	3121	3154
50°	3206	2982	3039
55°	3031	2822	2924
60°	2818	2640	2829
65°	2569	2412	2662
70°	2234	2186	2420
75°	1788	1895	2062
80°	1244	1512	1707
85°	698	1186	1573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3356 cd/sqm

TEST NUMBER: P1499063

CATALOG NUMBER: MAE-G-4-120-1LO-STD-35-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	3.9
10°-20°	787.5	11.0
20°-30°	1140.7	15.9
30°-40°	1309.1	18.2
40°-50°	1292.4	18.0
50°-60°	1104.5	15.4
60°-70°	782.7	10.9
70°-80°	390.1	5.4
80°-90°	88.8	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°	2211.4	30.8
0°-40°	3520.5	49.0
0°-60°	5917.4	82.4
0°-90°	7179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3019	3019	3019	3019	3019	
5°	3009	3006	2996	2973	2980	285
15°	2861	2843	2793	2747	2749	806
25°	2582	2538	2459	2416	2419	1188
35°	2205	2144	2061	2040	2049	1378
45°	1764	1705	1640	1646	1657	1360
55°	1292	1239	1203	1225	1246	1154
65°	807	765	758	812	836	798
75°	344	326	365	393	397	371
85°	45	56	77	94	102	64
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-1LO-STD-35-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3018.9	3018.9	3018.9	3018.9	3018.9
2.5°	3022.4	3025.2	3018.9	2995.2	3000.1
5°	3008.9	3006.5	2996.4	2972.7	2979.7
7.5°	2985.1	2980.5	2962.3	2933.6	2938.1
10°	2953.6	2944.3	2916.9	2880.6	2883.7
12.5°	2912.5	2899.6	2860.6	2818.7	2821.5
15°	2861.4	2842.9	2792.6	2747.1	2749.4
17.5°	2802.6	2780.8	2719.2	2669.5	2676.0
20°	2736.3	2707.1	2635.8	2587.3	2592.0
22.5°	2662.7	2626.5	2550.7	2502.9	2505.1
25°	2581.8	2538.1	2458.9	2415.5	2418.6
27.5°	2494.7	2446.4	2363.6	2322.7	2328.9
30°	2401.8	2349.2	2262.1	2229.2	2235.9
32.5°	2305.8	2249.7	2163.1	2136.7	2143.4
35°	2205.1	2144.1	2061.2	2040.0	2049.0
37.5°	2097.3	2038.1	1955.7	1946.0	1954.0
40°	1990.4	1929.1	1851.7	1847.8	1858.4
42.5°	1879.0	1819.3	1747.1	1747.5	1760.2
45°	1763.5	1705.3	1640.2	1645.8	1657.4
47.5°	1647.0	1589.9	1533.4	1542.3	1557.3
50°	1531.5	1475.9	1424.6	1438.8	1452.0
52.5°	1409.5	1356.8	1315.6	1331.5	1350.6
55°	1292.2	1238.7	1203.2	1225.1	1246.5
57.5°	1170.6	1124.7	1093.2	1122.8	1150.9
60°	1047.2	1002.5	981.0	1023.3	1051.4
62.5°	926.1	882.7	867.6	921.3	943.7
65°	807.0	764.6	757.5	812.0	836.0
67.5°	688.1	649.9	657.0	712.6	729.7
70°	567.8	533.4	555.8	604.7	615.2
72.5°	454.0	425.6	460.2	497.9	502.8
75°	343.9	325.6	364.6	392.8	396.7
77.5°	246.5	236.9	275.0	296.9	301.7
80°	160.5	163.8	195.2	213.5	220.3
82.5°	93.8	102.8	128.0	151.2	158.2
85°	45.2	56.1	76.8	94.3	101.9
87.5°	15.5	22.7	32.3	35.9	34.9
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	15.69	17.28	16.06	17.59	17.90	15.67	17.25	16.04	17.57	17.88
	3H	17.15	18.58	17.53	18.91	19.27	17.37	18.80	17.75	19.13	19.49
	4H	17.59	18.93	17.99	19.28	19.65	17.93	19.27	18.32	19.61	19.99
	6H	17.82	19.06	18.23	19.42	19.81	18.28	19.52	18.69	19.88	20.27
	8H	17.85	19.04	18.28	19.42	19.82	18.39	19.57	18.81	19.96	20.36
	12H	17.86	18.99	18.29	19.37	19.80	18.47	19.60	18.90	19.98	20.41
4H	2H	16.19	17.53	16.59	17.88	18.25	16.17	17.51	16.57	17.86	18.24
	3H	17.84	18.96	18.25	19.36	19.76	18.08	19.20	18.49	19.60	20.00
	4H	18.36	19.37	18.79	19.78	20.22	18.76	19.76	19.19	20.18	20.61
	6H	18.67	19.55	19.13	19.99	20.45	19.22	20.10	19.67	20.54	20.99
	8H	18.73	19.55	19.19	19.99	20.46	19.37	20.19	19.83	20.63	21.10
	12H	18.76	19.49	19.24	19.97	20.44	19.49	20.22	19.97	20.70	21.17
8H	4H	18.60	19.42	19.06	19.86	20.32	18.95	19.77	19.41	20.21	20.68
	6H	18.98	19.65	19.47	20.14	20.62	19.51	20.18	20.00	20.67	21.15
	8H	19.07	19.68	19.58	20.19	20.67	19.72	20.32	20.23	20.83	21.32
	12H	19.13	19.66	19.64	20.16	20.72	19.90	20.44	20.41	20.93	21.49
12H	4H	18.61	19.35	19.09	19.82	20.29	18.95	19.68	19.43	20.16	20.63
	6H	19.01	19.61	19.52	20.12	20.61	19.51	20.12	20.03	20.63	21.12
	8H	19.14	19.68	19.65	20.17	20.73	19.77	20.31	20.28	20.80	21.36