

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: P1499039

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499039
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-LO-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

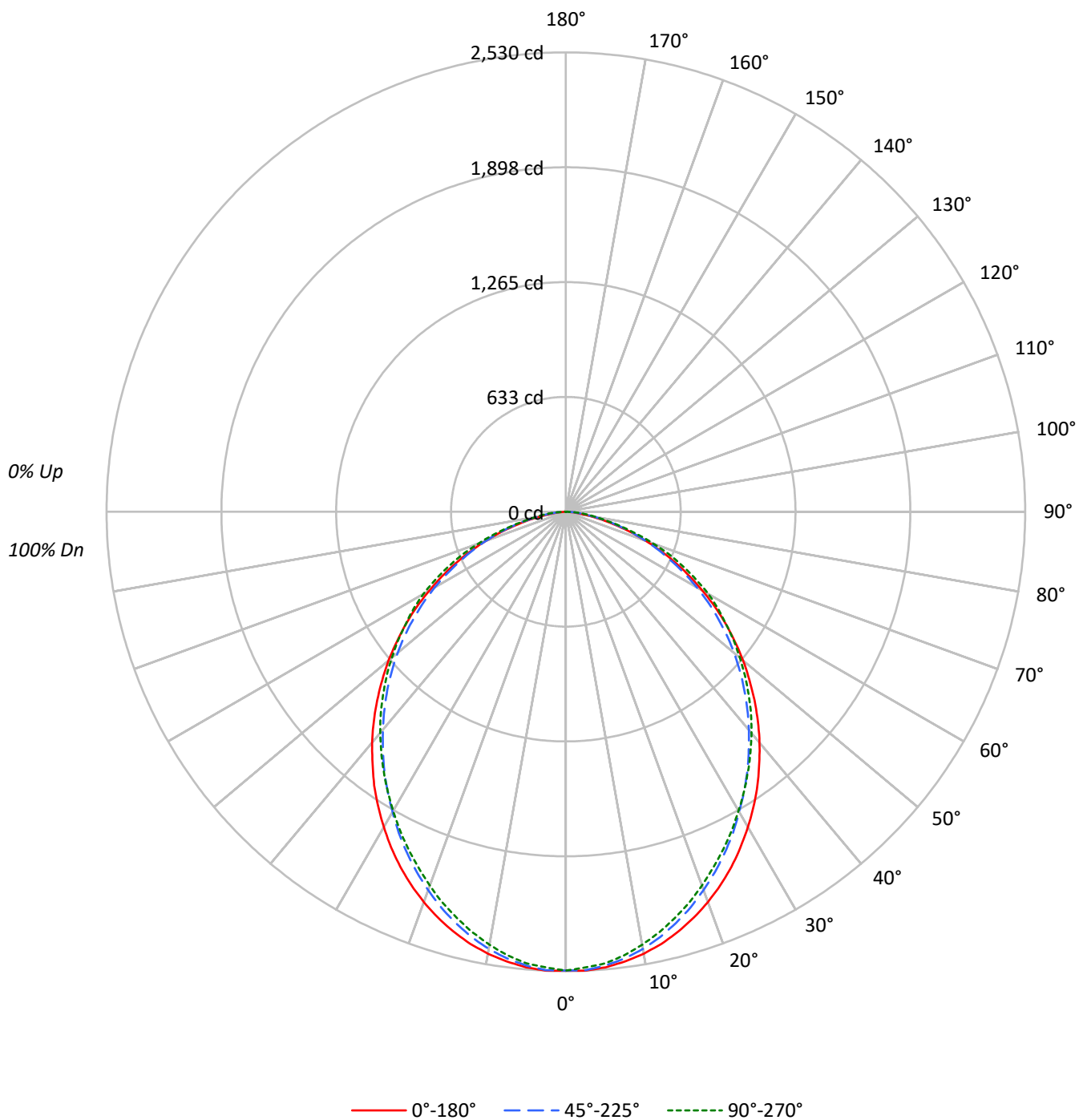
Lumens per Lamp: N/A
Luminaire Lumens: 6047.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.2
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: P1499039

CATALOG NUMBER: MAE-G-4-120-1LO-LO-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	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	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°	3400	3400	3400
5°	3401	3388	3372
10°	3377	3340	3308
15°	3334	3265	3226
20°	3275	3174	3137
25°	3203	3076	3045
30°	3115	2966	2955
35°	3022	2862	2872
40°	2915	2754	2794
45°	2795	2646	2708
50°	2668	2531	2618
55°	2520	2397	2524
60°	2339	2243	2440
65°	2128	2044	2269
70°	1847	1838	2022
75°	1474	1564	1660
80°	1020	1208	1317
85°	570	922	1198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2795 cd/sqm

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.2	3.9
10°-20°	661.2	10.9
20°-30°	960.5	15.9
30°-40°	1105.4	18.3
40°-50°	1094.1	18.1
50°-60°	936.8	15.5
60°-70°	660.7	10.9
70°-80°	321.0	5.3
80°-90°	69.9	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°	1859.0	30.7
0°-40°	2964.4	49.0
0°-60°	4995.4	82.6
0°-90°	6047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2527	2527	2527	2527	2527	
5°	2518	2516	2508	2491	2496	239
15°	2394	2380	2344	2313	2316	674
25°	2157	2126	2072	2045	2051	993
35°	1840	1797	1743	1736	1748	1149
45°	1469	1430	1391	1408	1423	1133
55°	1074	1038	1022	1052	1076	959
65°	668	640	642	691	713	661
75°	284	271	301	319	319	306
85°	37	45	60	72	78	52
90°	0	0	0	0	0	

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2526.9	2526.9	2526.9	2526.9	2526.9
2.5°	2529.8	2532.0	2526.9	2508.0	2511.2
5°	2518.2	2516.0	2508.5	2490.8	2496.4
7.5°	2498.1	2494.6	2481.1	2460.1	2463.8
10°	2471.4	2464.5	2444.5	2418.1	2421.2
12.5°	2436.8	2427.6	2399.3	2369.5	2372.8
15°	2393.6	2380.2	2344.1	2312.9	2316.3
17.5°	2343.8	2328.7	2285.0	2251.1	2258.3
20°	2287.6	2267.0	2216.9	2184.6	2190.8
22.5°	2225.5	2199.7	2147.1	2116.1	2120.9
25°	2157.4	2125.9	2071.8	2045.4	2051.1
27.5°	2083.7	2049.2	1993.7	1969.3	1978.3
30°	2005.2	1968.0	1909.2	1892.5	1902.2
32.5°	1924.6	1885.0	1827.1	1816.3	1826.1
35°	1840.0	1796.8	1742.7	1736.3	1748.5
37.5°	1749.3	1707.8	1654.5	1658.6	1670.1
40°	1659.6	1616.6	1567.8	1577.1	1590.9
42.5°	1566.2	1524.8	1480.3	1493.2	1509.3
45°	1469.0	1429.5	1390.7	1407.8	1423.1
47.5°	1371.4	1332.3	1300.7	1320.7	1339.0
50°	1274.6	1237.0	1209.3	1233.6	1250.9
52.5°	1172.9	1137.1	1117.3	1142.9	1165.1
55°	1074.3	1038.0	1022.0	1052.5	1075.9
57.5°	972.5	942.6	928.9	964.7	993.9
60°	869.1	839.6	833.7	879.1	906.7
62.5°	768.0	739.1	736.5	789.5	809.4
65°	668.5	640.0	642.1	691.0	712.6
67.5°	569.9	543.7	555.7	602.7	617.0
70°	469.5	446.1	467.2	506.8	513.9
72.5°	375.1	355.5	384.0	411.8	413.5
75°	283.5	271.3	300.9	319.2	319.4
77.5°	202.9	196.5	223.8	236.2	237.0
80°	131.6	134.5	155.9	165.7	170.0
82.5°	76.7	83.4	100.3	116.9	121.3
85°	36.9	45.0	59.7	72.4	77.6
87.5°	12.7	18.1	24.9	27.6	26.9
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	15.05	16.63	15.41	16.95	17.26	15.22	16.80	15.58	17.12	17.43
	3H	16.50	17.92	16.88	18.25	18.61	16.86	18.29	17.24	18.62	18.98
	4H	16.93	18.27	17.33	18.61	18.99	17.37	18.70	17.76	19.05	19.43
	6H	17.15	18.38	17.56	18.75	19.14	17.66	18.90	18.07	19.26	19.66
	8H	17.18	18.36	17.61	18.75	19.15	17.75	18.93	18.17	19.32	19.72
	12H	17.19	18.32	17.62	18.70	19.13	17.81	18.94	18.24	19.32	19.75
4H	2H	15.56	16.90	15.96	17.25	17.63	15.70	17.04	16.10	17.39	17.77
	3H	17.20	18.31	17.61	18.71	19.11	17.55	18.67	17.96	19.07	19.47
	4H	17.71	18.72	18.14	19.13	19.57	18.17	19.17	18.60	19.59	20.02
	6H	18.01	18.89	18.47	19.33	19.79	18.57	19.44	19.02	19.88	20.34
	8H	18.07	18.89	18.53	19.33	19.79	18.69	19.50	19.15	19.95	20.41
	12H	18.09	18.82	18.57	19.30	19.77	18.79	19.52	19.27	19.99	20.46
8H	4H	17.94	18.75	18.40	19.20	19.66	18.35	19.16	18.81	19.61	20.07
	6H	18.30	18.98	18.80	19.47	19.95	18.83	19.50	19.32	19.99	20.47
	8H	18.39	19.00	18.90	19.51	19.99	19.00	19.61	19.52	20.12	20.60
	12H	18.45	18.98	18.95	19.47	20.03	19.16	19.69	19.67	20.19	20.75
12H	4H	17.95	18.68	18.43	19.16	19.63	18.35	19.08	18.83	19.56	20.03
	6H	18.32	18.93	18.84	19.44	19.93	18.83	19.44	19.34	19.95	20.43
	8H	18.45	18.99	18.96	19.48	20.04	19.05	19.59	19.56	20.08	20.64