

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: P1499034

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499034
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-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

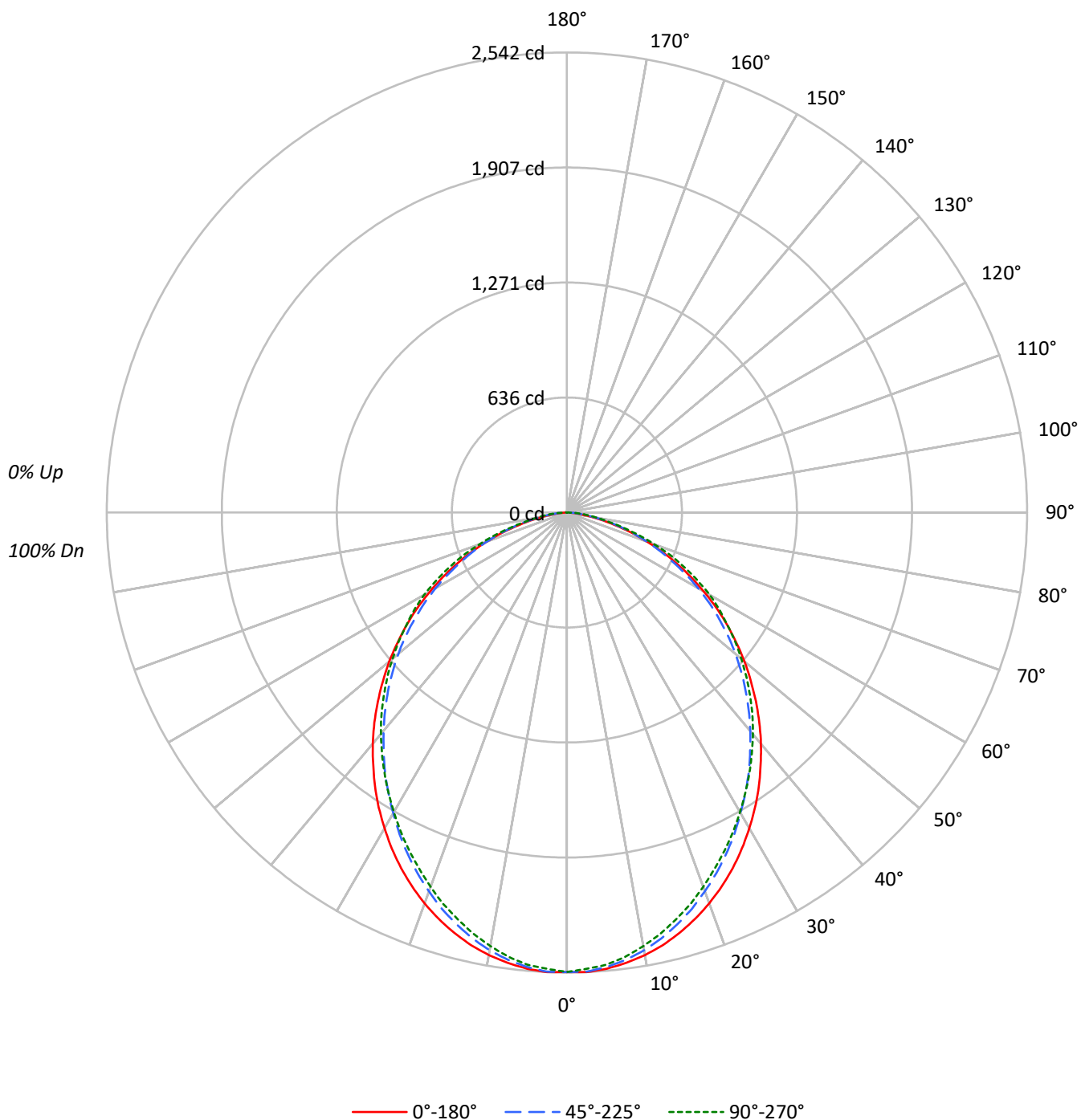
Lumens per Lamp: N/A
Luminaire Lumens: 6076.1 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	3416	3416	3416
5°	3417	3404	3388
10°	3393	3356	3324
15°	3350	3281	3242
20°	3291	3189	3152
25°	3218	3091	3060
30°	3130	2980	2970
35°	3037	2876	2886
40°	2929	2767	2807
45°	2809	2659	2721
50°	2681	2544	2631
55°	2532	2409	2536
60°	2350	2254	2452
65°	2138	2054	2280
70°	1856	1847	2031
75°	1481	1572	1668
80°	1024	1214	1323
85°	573	925	1204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2809 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	3.9
10°-20°	664.4	10.9
20°-30°	965.2	15.9
30°-40°	1110.7	18.3
40°-50°	1099.4	18.1
50°-60°	941.3	15.5
60°-70°	663.9	10.9
70°-80°	322.5	5.3
80°-90°	70.2	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°	1867.9	30.7
0°-40°	2978.6	49.0
0°-60°	5019.4	82.6
0°-90°	6076.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6076.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2539	2539	2539	2539	2539	
5°	2530	2528	2521	2503	2508	240
15°	2405	2392	2355	2324	2327	678
25°	2168	2136	2082	2055	2061	998
35°	1849	1805	1751	1745	1757	1155
45°	1476	1436	1397	1415	1430	1139
55°	1080	1043	1027	1058	1081	964
65°	672	643	645	694	716	665
75°	285	273	302	321	321	307
85°	37	45	60	73	78	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.0	2539.0	2539.0	2539.0	2539.0
2.5°	2542.0	2544.1	2539.0	2520.0	2523.3
5°	2530.3	2528.2	2520.6	2502.8	2508.4
7.5°	2510.1	2506.6	2493.0	2471.9	2475.6
10°	2483.2	2476.3	2456.1	2429.8	2432.9
12.5°	2448.5	2439.2	2410.7	2380.9	2384.1
15°	2405.0	2391.6	2355.4	2324.0	2327.3
17.5°	2355.1	2339.8	2296.0	2261.9	2269.1
20°	2298.5	2277.8	2227.5	2195.1	2201.3
22.5°	2236.2	2210.2	2157.4	2126.1	2131.1
25°	2167.6	2136.1	2081.8	2055.2	2061.0
27.5°	2093.7	2059.0	2003.2	1978.8	1987.8
30°	2014.9	1977.5	1918.4	1901.6	1911.4
32.5°	1933.9	1894.1	1835.8	1825.1	1834.8
35°	1848.7	1805.4	1751.1	1744.6	1756.9
37.5°	1757.7	1716.0	1662.4	1666.6	1678.1
40°	1667.6	1624.4	1575.4	1584.7	1598.4
42.5°	1573.8	1532.2	1487.4	1500.4	1516.6
45°	1476.1	1436.4	1397.3	1414.6	1429.9
47.5°	1378.0	1338.7	1306.9	1327.1	1345.5
50°	1280.7	1243.0	1215.2	1239.5	1256.9
52.5°	1178.6	1142.6	1122.7	1148.4	1170.6
55°	1079.5	1042.9	1026.9	1057.5	1081.1
57.5°	977.1	947.1	933.3	969.3	998.7
60°	873.3	843.7	837.7	883.3	911.1
62.5°	771.7	742.7	740.0	793.4	813.3
65°	671.7	643.0	645.3	694.4	716.0
67.5°	572.6	546.3	558.4	605.6	620.0
70°	471.7	448.3	469.4	509.2	516.4
72.5°	376.9	357.2	385.9	413.7	415.6
75°	284.8	272.7	302.3	320.7	320.9
77.5°	203.9	197.5	224.8	237.4	238.1
80°	132.2	135.1	156.7	166.5	170.8
82.5°	77.1	83.9	100.7	117.4	121.9
85°	37.1	45.3	59.9	72.8	78.0
87.5°	12.9	18.3	25.0	27.7	27.0
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	15.07	16.65	15.43	16.96	17.28	15.24	16.82	15.60	17.13	17.45
	3H	16.52	17.94	16.89	18.27	18.63	16.88	18.30	17.26	18.63	18.99
	4H	16.94	18.28	17.34	18.63	19.01	17.38	18.72	17.78	19.07	19.45
	6H	17.16	18.40	17.57	18.77	19.16	17.68	18.92	18.09	19.28	19.67
	8H	17.20	18.38	17.62	18.77	19.17	17.77	18.95	18.19	19.33	19.73
	12H	17.20	18.33	17.63	18.71	19.14	17.83	18.96	18.26	19.34	19.77
4H	2H	15.58	16.92	15.98	17.27	17.64	15.72	17.06	16.12	17.41	17.78
	3H	17.22	18.33	17.63	18.73	19.13	17.57	18.68	17.98	19.08	19.48
	4H	17.73	18.73	18.16	19.15	19.59	18.18	19.19	18.62	19.60	20.04
	6H	18.03	18.90	18.49	19.35	19.80	18.58	19.46	19.04	19.90	20.36
	8H	18.09	18.90	18.55	19.35	19.81	18.70	19.52	19.17	19.96	20.43
	12H	18.11	18.84	18.59	19.32	19.79	18.80	19.53	19.28	20.01	20.48
8H	4H	17.95	18.77	18.42	19.21	19.68	18.36	19.18	18.83	19.62	20.09
	6H	18.32	19.00	18.82	19.49	19.96	18.84	19.52	19.34	20.01	20.48
	8H	18.41	19.01	18.92	19.52	20.01	19.02	19.62	19.53	20.13	20.62
	12H	18.46	19.00	18.97	19.49	20.05	19.18	19.71	19.69	20.20	20.77
12H	4H	17.97	18.70	18.45	19.17	19.64	18.36	19.10	18.85	19.57	20.04
	6H	18.34	18.95	18.85	19.46	19.94	18.85	19.46	19.36	19.96	20.45
	8H	18.47	19.00	18.98	19.50	20.06	19.07	19.60	19.58	20.09	20.66