

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: P1498764

Luminaire Tested: MAE-G-2-120-3LO-LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

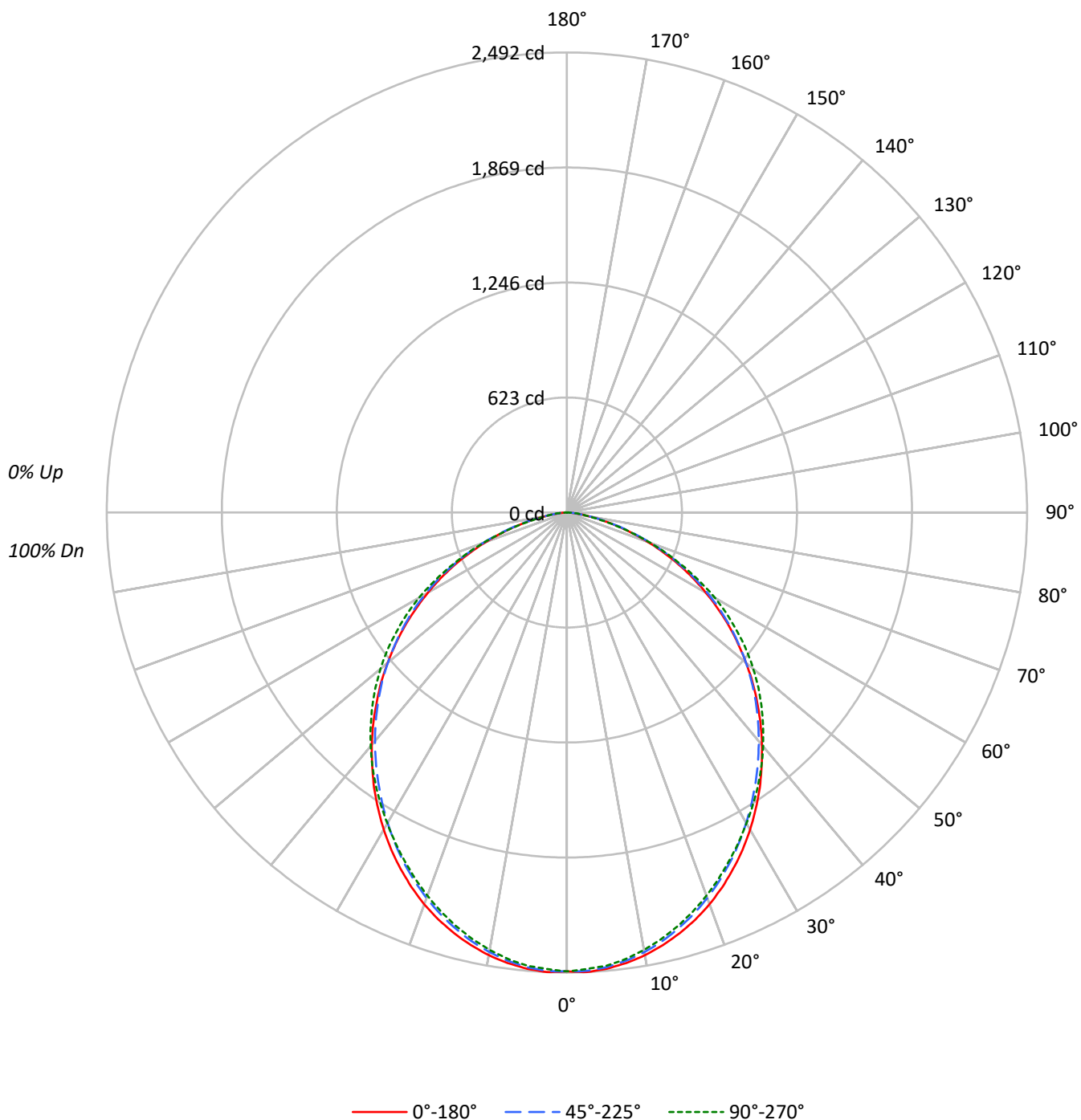
Lumens per Lamp: N/A
Luminaire Lumens: 6109.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6689	6689	6689
5°	6701	6679	6656
10°	6654	6608	6574
15°	6574	6499	6460
20°	6467	6365	6326
25°	6326	6209	6179
30°	6164	6032	6044
35°	5980	5853	5928
40°	5773	5678	5807
45°	5548	5500	5672
50°	5302	5299	5515
55°	5024	5066	5287
60°	4680	4769	4987
65°	4253	4369	4470
70°	3664	3802	3783
75°	2912	3030	2848
80°	1962	2002	1880
85°	1010	1269	1553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5672 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	3.8
10°-20°	657.2	10.8
20°-30°	964.7	15.8
30°-40°	1122.5	18.4
40°-50°	1124.4	18.4
50°-60°	971.3	15.9
60°-70°	676.4	11.1
70°-80°	305.1	5.0
80°-90°	53.5	0.9
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°	1855.9	30.4
0°-40°	2978.3	48.8
0°-60°	5074.0	83.1
0°-90°	6109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2486	2486	2486	2486	2486	
5°	2481	2470	2473	2461	2464	235
15°	2360	2344	2333	2315	2319	665
25°	2130	2110	2091	2074	2081	981
35°	1820	1796	1782	1788	1805	1137
45°	1458	1440	1445	1472	1490	1125
55°	1071	1058	1080	1115	1127	956
65°	668	665	686	699	702	660
75°	280	282	291	282	274	301
85°	33	35	41	48	50	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2491.8	2481.9	2485.7	2476.5	2474.9
5°	2480.7	2470.3	2472.6	2460.8	2464.2
7.5°	2461.5	2450.3	2449.6	2436.6	2439.6
10°	2435.3	2422.1	2418.4	2403.5	2405.8
12.5°	2400.6	2386.9	2379.6	2362.3	2366.3
15°	2359.7	2344.4	2332.7	2315.4	2318.9
17.5°	2312.4	2295.4	2281.1	2261.3	2267.0
20°	2258.2	2239.7	2222.6	2201.6	2209.1
22.5°	2197.4	2177.9	2158.3	2139.3	2146.6
25°	2130.4	2110.4	2091.1	2073.6	2081.2
27.5°	2059.9	2037.7	2018.0	2005.0	2013.6
30°	1983.7	1960.6	1941.4	1932.7	1945.0
32.5°	1903.1	1880.2	1862.8	1861.5	1875.7
35°	1820.5	1796.2	1781.7	1787.9	1804.6
37.5°	1731.5	1711.0	1700.0	1713.8	1730.7
40°	1643.4	1621.9	1616.5	1635.2	1653.0
42.5°	1552.1	1533.0	1531.8	1556.3	1572.9
45°	1457.8	1439.8	1445.2	1472.4	1490.5
47.5°	1365.0	1346.7	1357.1	1386.9	1406.6
50°	1266.4	1251.2	1265.7	1299.5	1317.4
52.5°	1168.3	1153.8	1173.4	1209.1	1226.4
55°	1070.9	1057.6	1079.9	1114.6	1127.0
57.5°	970.0	961.8	985.0	1015.7	1028.8
60°	869.6	862.3	886.1	914.8	926.7
62.5°	769.0	764.3	787.2	810.6	814.8
65°	667.9	664.6	686.2	699.3	702.0
67.5°	565.5	565.2	585.4	592.6	592.6
70°	465.7	464.3	483.2	485.7	480.8
72.5°	368.7	370.3	383.0	381.0	372.9
75°	280.1	281.8	291.4	281.6	273.9
77.5°	197.8	199.5	204.2	193.4	188.8
80°	126.6	130.5	129.2	124.4	121.3
82.5°	70.9	75.0	73.8	79.9	82.5
85°	32.7	35.4	41.1	47.6	50.3
87.5°	11.2	13.4	16.9	18.1	16.9
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	17.53	19.12	17.90	19.43	19.75	17.92	19.51	18.29	19.82	20.13
	3H	18.98	20.41	19.36	20.73	21.10	19.34	20.76	19.72	21.09	21.45
	4H	19.40	20.74	19.80	21.09	21.46	19.71	21.05	20.11	21.40	21.78
	6H	19.60	20.84	20.02	21.21	21.60	19.87	21.11	20.29	21.48	21.87
	8H	19.63	20.81	20.05	21.20	21.60	19.90	21.08	20.33	21.47	21.87
	12H	19.63	20.76	20.06	21.14	21.57	19.92	21.04	20.35	21.43	21.85
4H	2H	18.12	19.46	18.52	19.80	20.18	18.43	19.77	18.83	20.12	20.49
	3H	19.74	20.85	20.15	21.25	21.65	20.04	21.15	20.45	21.55	21.95
	4H	20.25	21.25	20.68	21.66	22.10	20.49	21.49	20.93	21.91	22.35
	6H	20.52	21.39	20.98	21.83	22.29	20.72	21.59	21.18	22.04	22.49
	8H	20.56	21.37	21.02	21.82	22.28	20.77	21.58	21.23	22.03	22.49
	12H	20.57	21.30	21.05	21.78	22.25	20.80	21.53	21.28	22.01	22.48
8H	4H	20.43	21.24	20.89	21.69	22.15	20.66	21.47	21.12	21.91	22.38
	6H	20.76	21.43	21.25	21.92	22.39	20.94	21.61	21.43	22.10	22.57
	8H	20.82	21.42	21.34	21.93	22.42	21.01	21.61	21.52	22.12	22.60
	12H	20.86	21.39	21.37	21.88	22.44	21.07	21.60	21.58	22.09	22.66
12H	4H	20.43	21.15	20.91	21.63	22.10	20.65	21.38	21.13	21.86	22.33
	6H	20.75	21.35	21.26	21.86	22.35	20.93	21.53	21.44	22.04	22.52
	8H	20.85	21.38	21.36	21.87	22.43	21.03	21.56	21.54	22.06	22.62