

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: P1498500

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

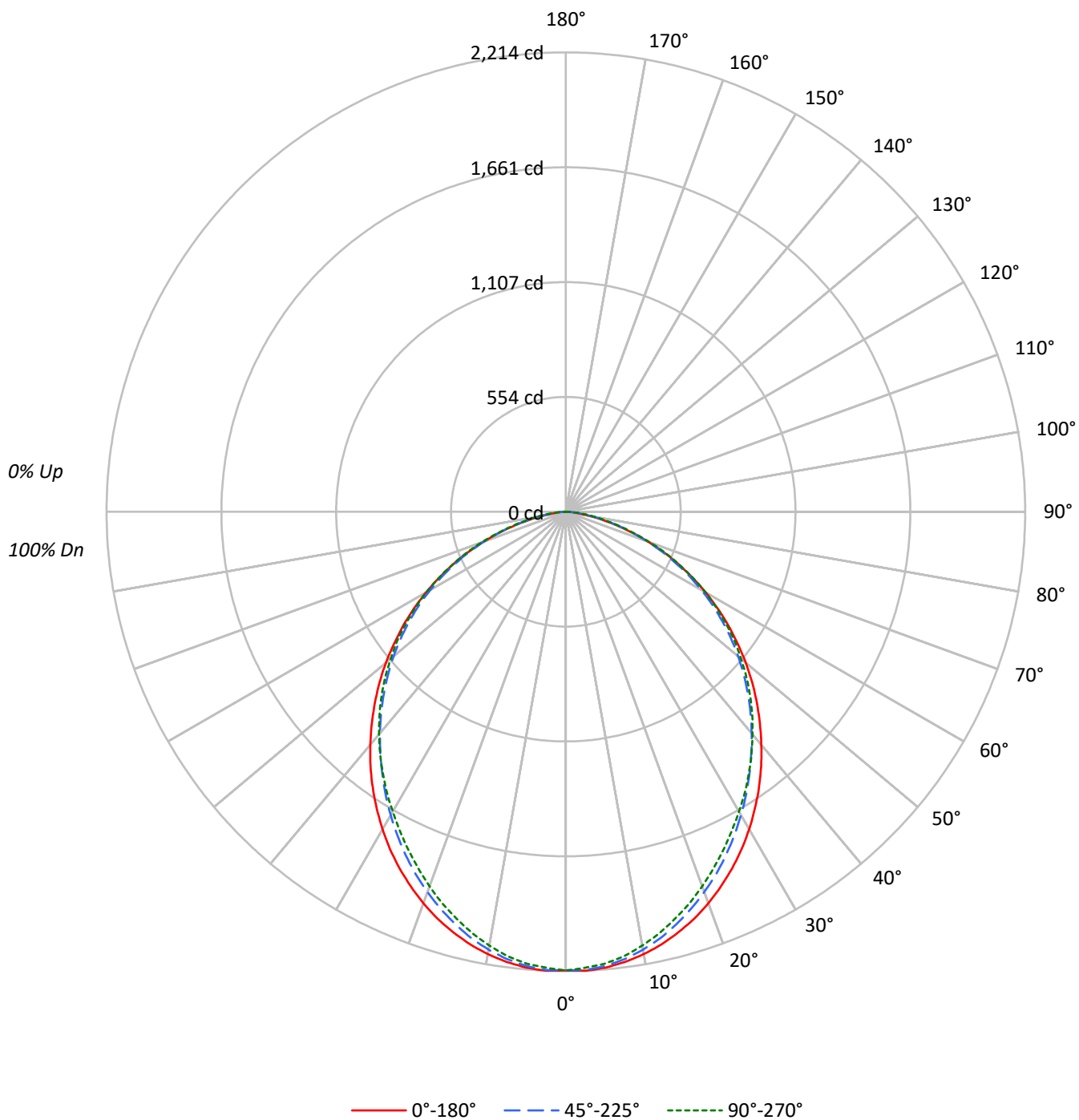
Lumens per Lamp: N/A
Luminaire Lumens: 5335.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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	80	98	90	84	79	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	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5948	5948	5948
5°	5956	5935	5904
10°	5916	5857	5801
15°	5844	5735	5658
20°	5751	5585	5503
25°	5631	5422	5335
30°	5491	5246	5184
35°	5332	5066	5052
40°	5149	4895	4919
45°	4953	4722	4781
50°	4738	4537	4614
55°	4490	4322	4419
60°	4193	4058	4182
65°	3819	3719	3847
70°	3306	3286	3394
75°	2643	2730	2800
80°	1804	1999	2120
85°	948	1420	1862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4953 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	3.9
10°-20°	579.9	10.9
20°-30°	844.7	15.8
30°-40°	976.1	18.3
40°-50°	971.0	18.2
50°-60°	834.2	15.6
60°-70°	585.6	11.0
70°-80°	279.3	5.2
80°-90°	56.5	1.1
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°	1632.3	30.6
0°-40°	2608.4	48.9
0°-60°	4413.6	82.7
0°-90°	5335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2210	2210	2210	2210	2210	
5°	2205	2198	2197	2182	2186	209
15°	2098	2082	2058	2031	2031	591
25°	1897	1870	1826	1797	1797	873
35°	1623	1587	1542	1531	1538	1014
45°	1302	1268	1241	1248	1256	1004
55°	957	929	921	935	942	855
65°	600	583	584	597	604	593
75°	254	248	263	268	269	273
85°	31	36	46	56	60	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2210.3	2210.3	2210.3	2210.3	2210.3
2.5°	2214.4	2208.8	2210.3	2198.8	2199.5
5°	2205.0	2198.1	2197.0	2182.1	2185.6
7.5°	2188.2	2179.5	2174.3	2156.8	2159.6
10°	2164.9	2153.6	2143.4	2121.6	2122.8
12.5°	2134.9	2121.5	2105.0	2079.4	2081.1
15°	2097.8	2081.9	2058.4	2030.6	2031.0
17.5°	2056.6	2038.6	2007.0	1977.1	1979.7
20°	2008.2	1987.6	1950.4	1919.4	1921.5
22.5°	1954.3	1930.6	1891.1	1859.7	1859.7
25°	1896.6	1869.9	1826.2	1796.6	1796.9
27.5°	1834.2	1804.3	1758.6	1731.1	1733.0
30°	1767.0	1735.1	1688.3	1665.4	1668.5
32.5°	1696.3	1663.0	1616.8	1599.8	1605.6
35°	1623.0	1587.3	1542.2	1531.4	1537.8
37.5°	1546.4	1511.1	1468.4	1463.5	1470.2
40°	1465.8	1431.7	1393.6	1392.8	1400.4
42.5°	1384.4	1351.1	1318.0	1321.5	1329.8
45°	1301.5	1268.0	1240.9	1247.6	1256.3
47.5°	1218.4	1185.2	1163.7	1172.9	1180.8
50°	1131.8	1100.8	1083.8	1095.0	1102.1
52.5°	1043.4	1014.6	1003.1	1016.1	1026.1
55°	957.0	929.4	921.2	934.7	941.9
57.5°	867.9	844.3	838.8	851.9	859.6
60°	779.1	756.9	754.0	768.5	777.1
62.5°	689.2	669.0	669.5	683.8	691.0
65°	599.8	582.7	584.1	596.9	604.1
67.5°	511.1	495.6	500.9	515.3	519.2
70°	420.2	408.1	417.7	429.1	431.4
72.5°	335.8	325.3	337.6	346.4	347.1
75°	254.2	247.6	262.6	267.5	269.3
77.5°	180.0	178.9	190.8	195.9	198.3
80°	116.4	120.2	129.0	135.8	136.8
82.5°	66.1	70.8	79.4	91.2	95.8
85°	30.7	35.6	46.0	55.9	60.3
87.5°	10.3	14.0	19.4	21.2	20.2
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	17.12	18.71	17.49	19.02	19.34	17.17	18.75	17.53	19.06	19.38
	3H	18.60	20.02	18.98	20.35	20.71	18.71	20.13	19.08	20.46	20.82
	4H	19.03	20.37	19.43	20.72	21.10	19.18	20.52	19.58	20.87	21.24
	6H	19.25	20.49	19.66	20.85	21.24	19.45	20.69	19.86	21.05	21.44
	8H	19.28	20.46	19.70	20.85	21.25	19.52	20.70	19.94	21.09	21.49
	12H	19.28	20.41	19.71	20.79	21.22	19.56	20.69	19.99	21.08	21.51
4H	2H	17.66	19.00	18.06	19.35	19.72	17.69	19.03	18.09	19.38	19.76
	3H	19.32	20.43	19.73	20.83	21.23	19.43	20.54	19.84	20.94	21.34
	4H	19.84	20.84	20.27	21.25	21.69	20.00	21.00	20.43	21.42	21.86
	6H	20.13	21.00	20.59	21.45	21.90	20.36	21.23	20.82	21.68	22.13
	8H	20.18	21.00	20.64	21.44	21.91	20.46	21.28	20.92	21.72	22.18
	12H	20.20	20.93	20.68	21.40	21.87	20.54	21.27	21.02	21.74	22.21
8H	4H	20.04	20.85	20.50	21.29	21.76	20.19	21.00	20.65	21.44	21.91
	6H	20.39	21.07	20.89	21.56	22.03	20.62	21.29	21.11	21.78	22.26
	8H	20.47	21.08	20.98	21.58	22.07	20.76	21.36	21.27	21.87	22.36
	12H	20.51	21.05	21.02	21.54	22.10	20.89	21.42	21.40	21.91	22.47
12H	4H	20.04	20.77	20.52	21.25	21.72	20.19	20.92	20.67	21.39	21.86
	6H	20.40	21.01	20.91	21.52	22.00	20.62	21.22	21.13	21.73	22.22
	8H	20.52	21.05	21.03	21.54	22.11	20.80	21.34	21.31	21.83	22.39