

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: P1498572

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498572
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-2-120-2STD-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

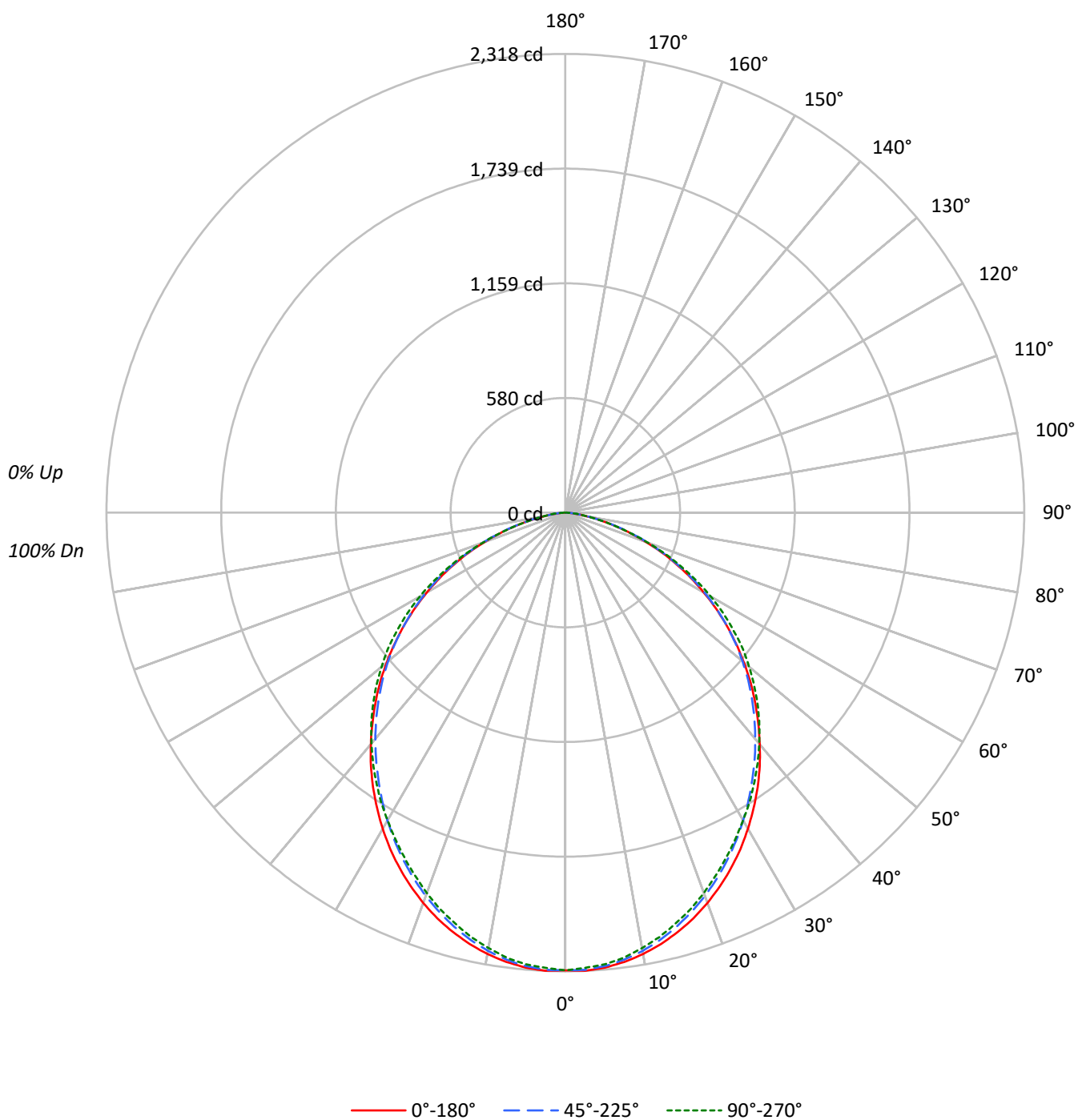
Lumens per Lamp: N/A
Luminaire Lumens: 5655.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6223	6223	6223
5°	6233	6214	6189
10°	6188	6144	6105
15°	6111	6036	5989
20°	6011	5901	5857
25°	5883	5749	5710
30°	5732	5583	5579
35°	5562	5408	5466
40°	5367	5244	5351
45°	5158	5075	5230
50°	4930	4890	5071
55°	4668	4669	4865
60°	4353	4391	4576
65°	3954	4014	4116
70°	3410	3483	3497
75°	2712	2784	2693
80°	1829	1875	1815
85°	929	1207	1507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5230 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	3.8
10°-20°	610.4	10.8
20°-30°	894.3	15.8
30°-40°	1039.2	18.4
40°-50°	1039.4	18.4
50°-60°	896.6	15.9
60°-70°	623.7	11.0
70°-80°	283.1	5.0
80°-90°	50.7	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°	1722.2	30.5
0°-40°	2761.5	48.8
0°-60°	4697.4	83.1
0°-90°	5655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2313	2313	2313	2313	2313	
5°	2307	2298	2300	2288	2291	219
15°	2194	2179	2167	2148	2150	618
25°	1982	1962	1936	1919	1923	912
35°	1693	1669	1646	1651	1664	1058
45°	1355	1335	1334	1358	1374	1046
55°	995	980	995	1025	1037	889
65°	621	616	630	640	646	615
75°	261	260	268	261	259	281
85°	30	33	39	46	49	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2312.6	2312.6	2312.6	2312.6	2312.6
2.5°	2317.5	2309.1	2312.6	2303.5	2302.2
5°	2307.3	2298.3	2300.3	2288.2	2291.0
7.5°	2289.6	2279.5	2278.5	2265.2	2268.0
10°	2264.7	2252.7	2248.6	2232.6	2234.1
12.5°	2233.1	2220.0	2211.9	2193.6	2196.5
15°	2193.7	2179.2	2166.6	2148.0	2149.9
17.5°	2150.4	2135.1	2116.4	2097.1	2101.5
20°	2099.0	2082.7	2060.7	2040.4	2045.4
22.5°	2042.2	2024.0	2001.4	1981.6	1984.9
25°	1981.5	1961.7	1936.3	1918.9	1923.0
27.5°	1915.6	1893.6	1868.2	1853.3	1859.5
30°	1844.8	1821.9	1796.7	1787.1	1795.4
32.5°	1770.1	1747.2	1723.0	1720.8	1732.6
35°	1693.1	1668.6	1646.2	1651.0	1664.0
37.5°	1612.9	1589.1	1570.2	1581.8	1595.3
40°	1527.9	1506.1	1492.7	1509.0	1523.3
42.5°	1442.5	1421.9	1414.0	1435.1	1450.6
45°	1355.4	1335.1	1333.5	1357.6	1374.2
47.5°	1269.1	1248.3	1252.2	1279.1	1294.0
50°	1177.7	1159.9	1168.1	1196.5	1211.4
52.5°	1086.1	1069.7	1082.4	1112.5	1129.9
55°	995.0	980.4	995.2	1024.6	1036.9
57.5°	901.7	891.0	907.1	932.9	944.7
60°	808.9	799.2	815.8	839.3	850.3
62.5°	715.0	707.1	724.0	742.4	748.7
65°	621.0	616.3	630.4	640.2	646.4
67.5°	529.0	524.1	537.4	545.6	547.2
70°	433.4	431.8	442.7	445.9	444.5
72.5°	345.9	343.4	351.9	350.6	347.5
75°	260.8	260.2	267.8	261.4	259.0
77.5°	183.7	186.4	188.1	182.5	180.5
80°	118.0	122.3	121.0	118.9	117.1
82.5°	66.0	69.2	69.9	76.9	79.6
85°	30.1	33.1	39.1	46.1	48.8
87.5°	10.2	12.7	16.3	17.4	16.4
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	17.28	18.86	17.64	19.17	19.49	17.60	19.18	17.96	19.50	19.81
	3H	18.74	20.16	19.11	20.49	20.85	19.03	20.45	19.40	20.78	21.14
	4H	19.16	20.49	19.56	20.84	21.22	19.41	20.75	19.81	21.10	21.48
	6H	19.36	20.60	19.77	20.96	21.35	19.59	20.83	20.00	21.19	21.58
	8H	19.39	20.56	19.81	20.95	21.35	19.62	20.80	20.05	21.19	21.59
	12H	19.38	20.51	19.81	20.89	21.32	19.64	20.77	20.07	21.15	21.58
4H	2H	17.85	19.19	18.25	19.53	19.91	18.11	19.45	18.51	19.79	20.17
	3H	19.48	20.59	19.89	20.99	21.39	19.72	20.83	20.13	21.23	21.63
	4H	19.99	20.99	20.42	21.40	21.84	20.19	21.19	20.62	21.61	22.04
	6H	20.27	21.14	20.72	21.58	22.04	20.44	21.31	20.90	21.75	22.21
	8H	20.31	21.12	20.77	21.56	22.03	20.50	21.31	20.96	21.75	22.22
	12H	20.32	21.05	20.80	21.52	21.99	20.53	21.26	21.02	21.74	22.21
8H	4H	20.17	20.98	20.63	21.42	21.89	20.36	21.17	20.82	21.61	22.08
	6H	20.50	21.17	21.00	21.66	22.14	20.66	21.33	21.15	21.82	22.29
	8H	20.57	21.17	21.08	21.68	22.16	20.74	21.34	21.25	21.85	22.34
	12H	20.60	21.13	21.11	21.62	22.19	20.81	21.34	21.32	21.83	22.40
12H	4H	20.17	20.89	20.65	21.37	21.84	20.35	21.08	20.83	21.56	22.03
	6H	20.50	21.10	21.01	21.61	22.09	20.65	21.25	21.16	21.76	22.25
	8H	20.60	21.13	21.11	21.62	22.18	20.77	21.30	21.28	21.79	22.35