

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: P1498890

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498890
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-4-120-1HI-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

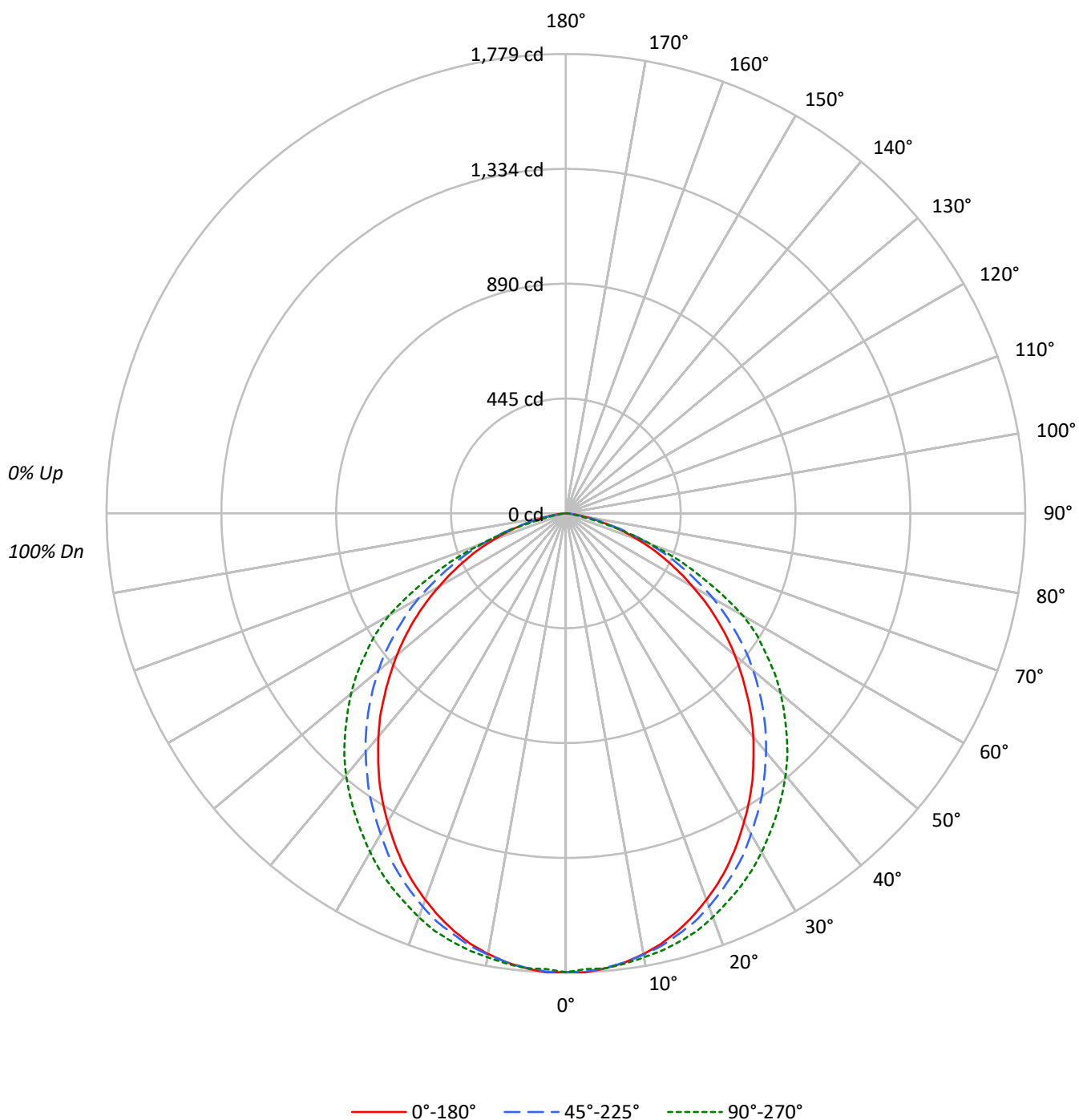
Lumens per Lamp: N/A
Luminaire Lumens: 4472.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.3
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	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	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2390	2390	2390
5°	2389	2385	2389
10°	2368	2371	2385
15°	2332	2350	2389
20°	2280	2320	2382
25°	2220	2280	2371
30°	2144	2228	2355
35°	2070	2179	2338
40°	1984	2119	2325
45°	1887	2057	2300
50°	1787	1985	2274
55°	1673	1889	2218
60°	1527	1774	2132
65°	1367	1587	1831
70°	1166	1337	1398
75°	904	970	784
80°	594	515	277
85°	315	236	157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	3.8
10°-20°	476.7	10.7
20°-30°	708.8	15.9
30°-40°	833.4	18.6
40°-50°	841.1	18.8
50°-60°	730.3	16.3
60°-70°	497.1	11.1
70°-80°	193.6	4.3
80°-90°	23.2	0.5
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°	1353.3	30.3
0°-40°	2186.7	48.9
0°-60°	3758.1	84.0
0°-90°	4472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1769	1766	1766	1766	1769	168
15°	1674	1677	1687	1705	1715	471
25°	1495	1503	1536	1574	1597	688
35°	1260	1275	1326	1388	1424	787
45°	992	1017	1081	1166	1209	766
55°	713	736	805	897	946	637
65°	429	450	498	552	575	426
75°	174	184	187	169	151	189
85°	20	20	15	13	10	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.3	1776.3	1776.3	1776.3	1776.3
2.5°	1778.9	1778.9	1776.3	1768.6	1766.1
5°	1768.6	1766.1	1766.1	1766.1	1768.6
7.5°	1753.3	1753.3	1753.3	1755.9	1758.4
10°	1732.9	1732.9	1735.4	1740.5	1745.6
12.5°	1707.3	1709.9	1715.0	1725.2	1732.9
15°	1674.1	1676.6	1686.9	1704.7	1715.0
17.5°	1635.7	1643.4	1658.7	1679.2	1694.5
20°	1592.3	1600.0	1620.4	1646.0	1663.9
22.5°	1546.3	1554.0	1579.5	1610.2	1630.6
25°	1495.2	1502.8	1536.1	1574.4	1597.4
27.5°	1438.9	1449.2	1490.1	1531.0	1559.1
30°	1380.2	1392.9	1433.8	1484.9	1515.6
32.5°	1321.4	1336.7	1380.2	1438.9	1469.6
35°	1260.0	1275.4	1326.5	1387.8	1423.6
37.5°	1193.6	1211.5	1265.1	1339.3	1375.0
40°	1129.7	1147.6	1206.4	1285.6	1323.9
42.5°	1063.2	1083.7	1145.0	1226.8	1270.3
45°	991.7	1017.2	1081.1	1165.5	1208.9
47.5°	922.7	945.7	1014.7	1101.6	1147.6
50°	853.7	879.2	948.2	1037.7	1086.2
52.5°	784.6	807.6	879.2	968.7	1019.8
55°	713.1	736.1	805.1	897.1	945.7
57.5°	641.5	669.6	733.5	823.0	876.7
60°	567.4	593.0	659.4	748.9	792.3
62.5°	498.4	521.4	577.6	662.0	682.4
65°	429.4	449.8	498.4	552.1	575.1
67.5°	365.5	380.8	424.3	460.1	470.3
70°	296.5	311.8	339.9	360.4	355.3
72.5°	235.1	245.4	263.3	260.7	247.9
75°	173.8	184.0	186.6	168.7	150.8
77.5°	122.7	127.8	120.1	94.6	76.7
80°	76.7	79.2	66.5	40.9	35.8
82.5°	43.4	43.4	30.7	25.6	20.4
85°	20.4	20.4	15.3	12.8	10.2
87.5°	7.7	7.7	5.1	5.1	5.1
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	13.63	15.21	14.00	15.52	15.84	15.21	16.79	15.58	17.10	17.42
	3H	14.97	16.38	15.34	16.71	17.07	16.48	17.90	16.86	18.22	18.59
	4H	15.33	16.66	15.73	17.01	17.39	16.68	18.00	17.07	18.35	18.73
	6H	15.50	16.73	15.91	17.09	17.48	16.67	17.90	17.08	18.27	18.66
	8H	15.51	16.68	15.94	17.07	17.47	16.65	17.82	17.07	18.21	18.61
	12H	15.51	16.63	15.94	17.01	17.44	16.62	17.74	17.05	18.12	18.55
4H	2H	14.30	15.63	14.69	15.97	16.35	15.59	16.92	15.99	17.27	17.64
	3H	15.79	16.89	16.20	17.29	17.69	17.03	18.13	17.44	18.53	18.93
	4H	16.24	17.22	16.67	17.64	18.08	17.28	18.27	17.71	18.68	19.12
	6H	16.46	17.32	16.92	17.76	18.22	17.31	18.16	17.76	18.61	19.07
	8H	16.49	17.29	16.95	17.73	18.20	17.28	18.08	17.74	18.52	18.99
	12H	16.49	17.20	16.97	17.68	18.15	17.26	17.97	17.74	18.45	18.92
8H	4H	16.39	17.19	16.86	17.64	18.10	17.36	18.16	17.83	18.61	19.07
	6H	16.65	17.31	17.15	17.80	18.28	17.40	18.05	17.89	18.55	19.02
	8H	16.69	17.28	17.21	17.79	18.28	17.37	17.96	17.88	18.47	18.96
	12H	16.72	17.23	17.22	17.73	18.29	17.35	17.87	17.86	18.37	18.93
12H	4H	16.38	17.09	16.86	17.57	18.04	17.35	18.06	17.83	18.54	19.01
	6H	16.62	17.21	17.14	17.72	18.21	17.37	17.96	17.88	18.47	18.96
	8H	16.69	17.21	17.20	17.70	18.27	17.37	17.89	17.88	18.38	18.94