

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: P1498908

Luminaire Tested: MAE-G-4-120-1HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498908
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-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

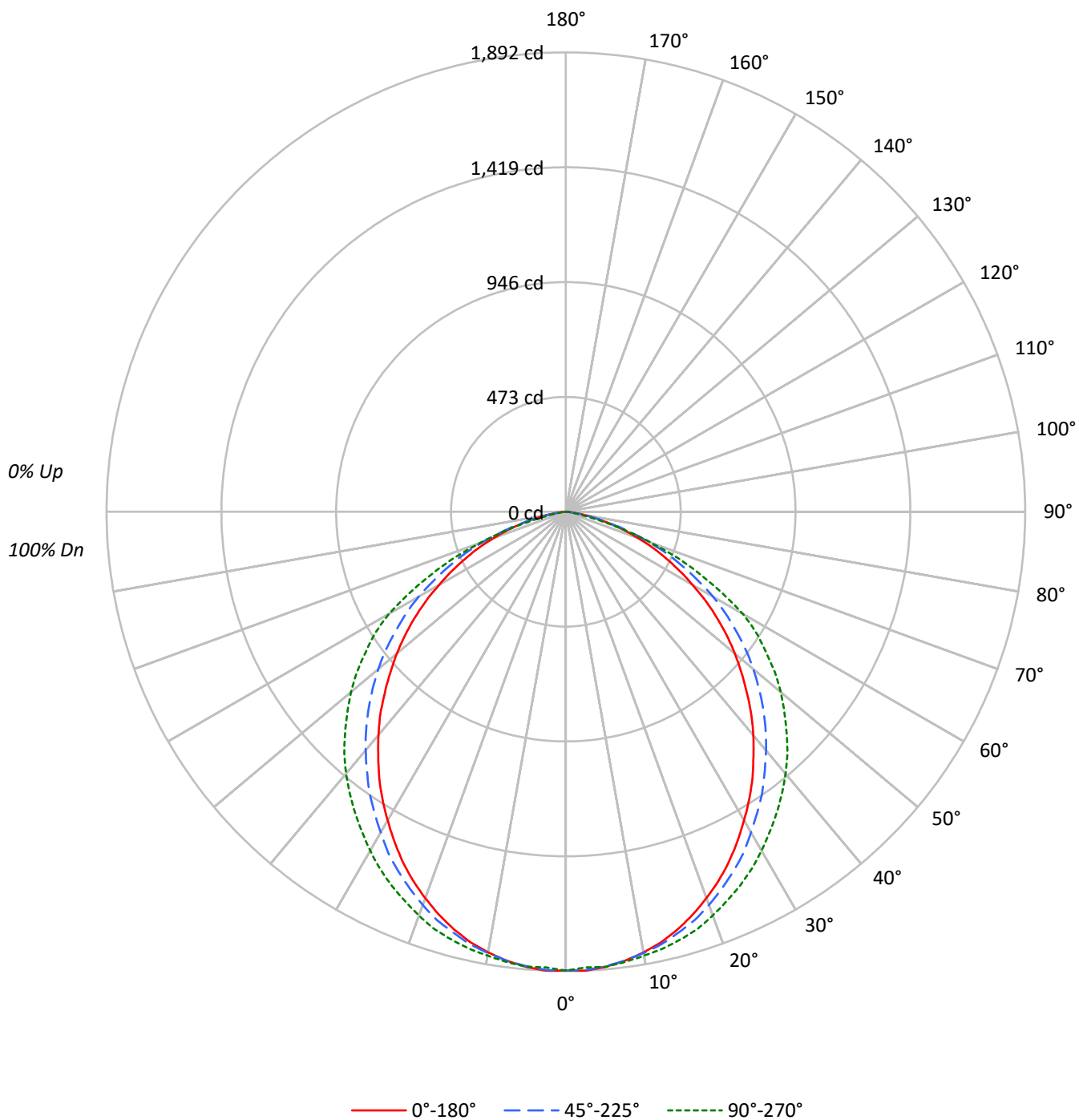
Lumens per Lamp: N/A
Luminaire Lumens: 4756.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2542	2542	2542
5°	2541	2537	2541
10°	2518	2522	2536
15°	2480	2499	2541
20°	2425	2467	2534
25°	2361	2425	2522
30°	2280	2369	2504
35°	2201	2317	2487
40°	2110	2253	2473
45°	2007	2188	2446
50°	1900	2111	2418
55°	1779	2008	2359
60°	1624	1887	2267
65°	1454	1687	1947
70°	1240	1422	1486
75°	961	1031	834
80°	631	548	295
85°	335	252	168

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2446 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	3.8
10°-20°	507.0	10.7
20°-30°	753.8	15.9
30°-40°	886.3	18.6
40°-50°	894.5	18.8
50°-60°	776.7	16.3
60°-70°	528.6	11.1
70°-80°	205.9	4.3
80°-90°	24.7	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°	1439.2	30.3
0°-40°	2325.5	48.9
0°-60°	3996.8	84.0
0°-90°	4756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1881	1878	1878	1878	1881	178
15°	1780	1783	1794	1813	1824	501
25°	1590	1598	1634	1674	1699	731
35°	1340	1356	1411	1476	1514	837
45°	1055	1082	1150	1240	1286	814
55°	758	783	856	954	1006	677
65°	457	478	530	587	612	453
75°	185	196	198	179	160	201
85°	22	22	16	14	11	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1889.1	1889.1	1889.1	1889.1	1889.1
2.5°	1891.8	1891.8	1889.1	1881.0	1878.2
5°	1881.0	1878.2	1878.2	1878.2	1881.0
7.5°	1864.7	1864.7	1864.7	1867.4	1870.1
10°	1842.9	1842.9	1845.6	1851.1	1856.5
12.5°	1815.7	1818.4	1823.9	1834.8	1842.9
15°	1780.4	1783.1	1794.0	1813.0	1823.9
17.5°	1739.6	1747.8	1764.1	1785.8	1802.1
20°	1693.4	1701.6	1723.3	1750.5	1769.5
22.5°	1644.5	1652.6	1679.8	1712.4	1734.2
25°	1590.1	1598.3	1633.6	1674.4	1698.8
27.5°	1530.3	1541.2	1584.7	1628.2	1658.1
30°	1467.8	1481.4	1524.9	1579.2	1611.9
32.5°	1405.3	1421.6	1467.8	1530.3	1562.9
35°	1340.1	1356.4	1410.7	1476.0	1514.0
37.5°	1269.4	1288.4	1345.5	1424.3	1462.4
40°	1201.4	1220.5	1283.0	1367.2	1408.0
42.5°	1130.8	1152.5	1217.7	1304.7	1350.9
45°	1054.6	1081.8	1149.8	1239.5	1285.7
47.5°	981.3	1005.7	1079.1	1171.5	1220.5
50°	907.9	935.0	1008.4	1103.6	1155.2
52.5°	834.5	858.9	935.0	1030.2	1084.5
55°	758.4	782.8	856.2	954.1	1005.7
57.5°	682.3	712.2	780.1	875.2	932.3
60°	603.4	630.6	701.3	796.4	842.6
62.5°	530.0	554.5	614.3	704.0	725.7
65°	456.7	478.4	530.0	587.1	611.6
67.5°	388.7	405.0	451.2	489.3	500.1
70°	315.3	331.6	361.5	383.3	377.8
72.5°	250.1	260.9	280.0	277.3	263.7
75°	184.8	195.7	198.4	179.4	160.4
77.5°	130.5	135.9	127.8	100.6	81.5
80°	81.5	84.3	70.7	43.5	38.1
82.5°	46.2	46.2	32.6	27.2	21.7
85°	21.7	21.7	16.3	13.6	10.9
87.5°	8.2	8.2	5.4	5.4	5.4
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	13.85	15.42	14.21	15.74	16.05	15.42	17.00	15.79	17.32	17.63
	3H	15.18	16.60	15.56	16.93	17.29	16.69	18.11	17.07	18.44	18.80
	4H	15.55	16.88	15.95	17.23	17.60	16.89	18.22	17.29	18.57	18.94
	6H	15.71	16.94	16.12	17.31	17.70	16.89	18.11	17.30	18.48	18.87
	8H	15.73	16.90	16.15	17.29	17.69	16.86	18.03	17.29	18.42	18.82
	12H	15.72	16.84	16.15	17.22	17.65	16.83	17.95	17.26	18.34	18.76
4H	2H	14.51	15.84	14.91	16.19	16.56	15.80	17.13	16.20	17.48	17.86
	3H	16.01	17.11	16.42	17.51	17.91	17.24	18.34	17.65	18.74	19.14
	4H	16.45	17.44	16.88	17.85	18.29	17.49	18.48	17.92	18.90	19.33
	6H	16.68	17.53	17.13	17.98	18.43	17.52	18.38	17.98	18.82	19.28
	8H	16.70	17.50	17.16	17.94	18.41	17.49	18.29	17.96	18.74	19.20
	12H	16.70	17.42	17.18	17.90	18.37	17.47	18.19	17.95	18.66	19.13
8H	4H	16.61	17.41	17.07	17.85	18.32	17.58	18.38	18.04	18.82	19.29
	6H	16.87	17.53	17.36	18.02	18.49	17.61	18.27	18.11	18.76	19.24
	8H	16.91	17.50	17.42	18.01	18.49	17.58	18.17	18.10	18.68	19.17
	12H	16.93	17.45	17.44	17.94	18.50	17.57	18.09	18.08	18.58	19.14
12H	4H	16.59	17.30	17.07	17.78	18.25	17.56	18.28	18.04	18.75	19.23
	6H	16.84	17.43	17.35	17.94	18.43	17.58	18.17	18.10	18.68	19.17
	8H	16.91	17.43	17.42	17.92	18.48	17.58	18.10	18.09	18.59	19.16