

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: P1498902

Luminaire Tested: MAE-G-4-120-1HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498902
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-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

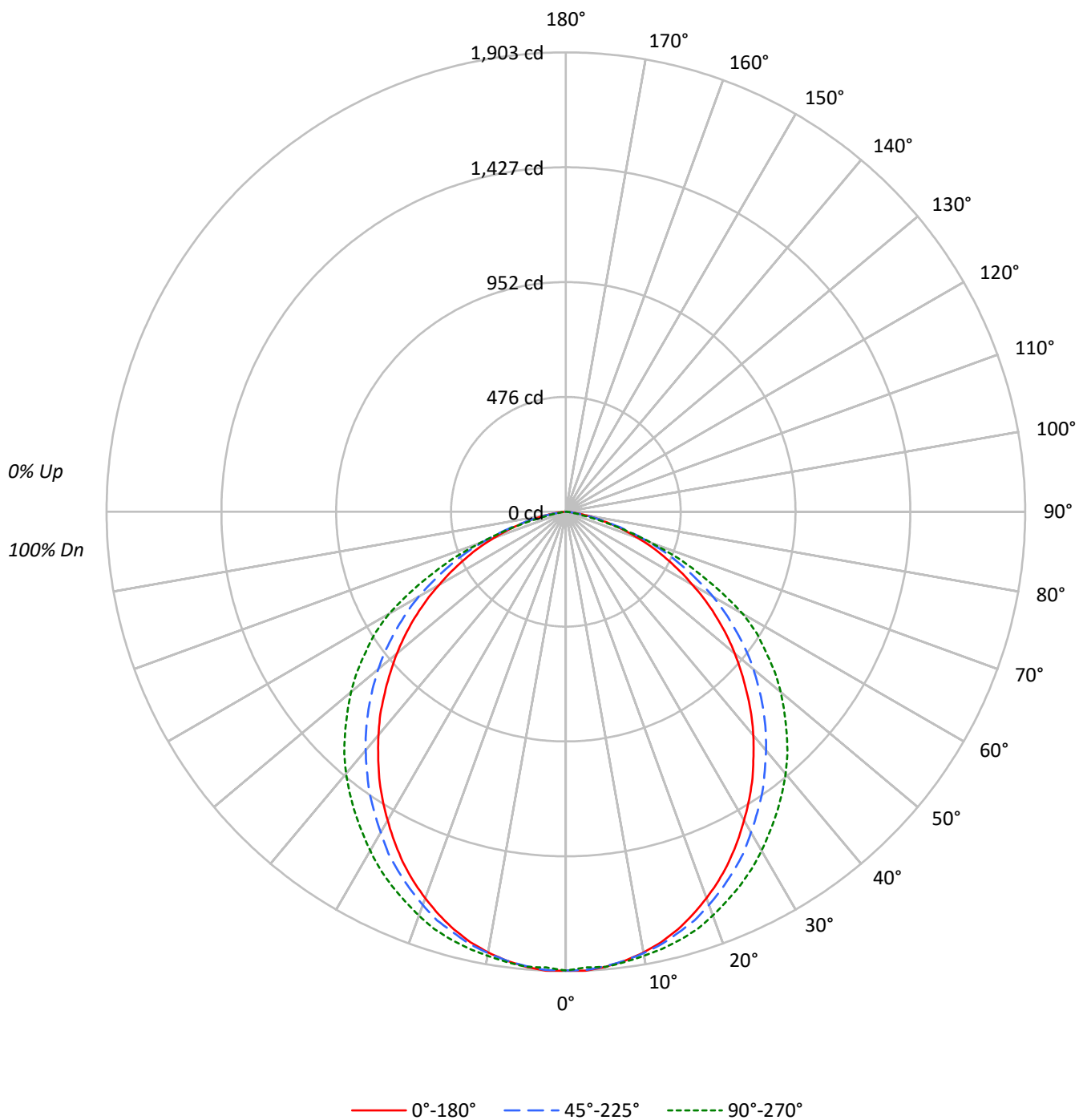
Lumens per Lamp: N/A
Luminaire Lumens: 4784.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1498902

CATALOG NUMBER: MAE-G-4-120-1HI-40-90

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°	2557	2557	2557
5°	2555	2552	2555
10°	2533	2536	2551
15°	2495	2514	2556
20°	2439	2482	2549
25°	2375	2439	2537
30°	2294	2383	2519
35°	2214	2331	2501
40°	2123	2267	2488
45°	2019	2201	2461
50°	1912	2123	2432
55°	1789	2020	2373
60°	1633	1898	2281
65°	1462	1698	1959
70°	1248	1430	1495
75°	966	1038	839
80°	635	551	297
85°	338	253	168

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2461 cd/sqm

TEST NUMBER: P1498902

CATALOG NUMBER: MAE-G-4-120-1HI-40-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	3.8
10°-20°	510.0	10.7
20°-30°	758.3	15.9
30°-40°	891.5	18.6
40°-50°	899.8	18.8
50°-60°	781.3	16.3
60°-70°	531.8	11.1
70°-80°	207.2	4.3
80°-90°	24.8	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°	1447.7	30.3
0°-40°	2339.2	48.9
0°-60°	4020.3	84.0
0°-90°	4784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1892	1889	1889	1889	1892	179
15°	1791	1794	1804	1824	1835	504
25°	1600	1608	1643	1684	1709	736
35°	1348	1364	1419	1485	1523	842
45°	1061	1088	1156	1247	1293	819
55°	763	787	861	960	1012	681
65°	459	481	533	591	615	456
75°	186	197	200	180	161	202
85°	22	22	16	14	11	32
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-1HI-40-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.2	1900.2	1900.2	1900.2	1900.2
2.5°	1903.0	1903.0	1900.2	1892.0	1889.3
5°	1892.0	1889.3	1889.3	1889.3	1892.0
7.5°	1875.6	1875.6	1875.6	1878.4	1881.1
10°	1853.8	1853.8	1856.5	1862.0	1867.4
12.5°	1826.4	1829.2	1834.6	1845.6	1853.8
15°	1790.9	1793.6	1804.5	1823.7	1834.6
17.5°	1749.9	1758.1	1774.5	1796.3	1812.7
20°	1703.4	1711.6	1733.5	1760.8	1779.9
22.5°	1654.2	1662.4	1689.7	1722.5	1744.4
25°	1599.5	1607.7	1643.2	1684.2	1708.8
27.5°	1539.3	1550.3	1594.0	1637.8	1667.8
30°	1476.4	1490.1	1533.9	1588.5	1621.4
32.5°	1413.6	1430.0	1476.4	1539.3	1572.1
35°	1347.9	1364.3	1419.0	1484.6	1522.9
37.5°	1276.9	1296.0	1353.4	1432.7	1471.0
40°	1208.5	1227.6	1290.5	1375.3	1416.3
42.5°	1137.4	1159.3	1224.9	1312.4	1358.9
45°	1060.9	1088.2	1156.5	1246.8	1293.3
47.5°	987.0	1011.6	1085.5	1178.4	1227.6
50°	913.2	940.6	1014.4	1110.1	1162.0
52.5°	839.4	864.0	940.6	1036.2	1090.9
55°	762.8	787.4	861.3	959.7	1011.6
57.5°	686.3	716.3	784.7	880.4	937.8
60°	607.0	634.3	705.4	801.1	847.6
62.5°	533.2	557.8	617.9	708.1	730.0
65°	459.3	481.2	533.2	590.6	615.2
67.5°	391.0	407.4	453.9	492.1	503.1
70°	317.2	333.6	363.6	385.5	380.0
72.5°	251.5	262.5	281.6	278.9	265.2
75°	185.9	196.9	199.6	180.5	161.3
77.5°	131.2	136.7	128.5	101.2	82.0
80°	82.0	84.8	71.1	43.7	38.3
82.5°	46.5	46.5	32.8	27.3	21.9
85°	21.9	21.9	16.4	13.7	10.9
87.5°	8.2	8.2	5.5	5.5	5.5
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	13.87	15.44	14.23	15.76	16.07	15.45	17.02	15.81	17.34	17.65
	3H	15.20	16.62	15.58	16.95	17.31	16.71	18.13	17.09	18.46	18.82
	4H	15.57	16.90	15.97	17.25	17.62	16.91	18.24	17.31	18.59	18.96
	6H	15.73	16.96	16.14	17.33	17.72	16.91	18.13	17.32	18.50	18.89
	8H	15.75	16.92	16.17	17.31	17.71	16.88	18.05	17.31	18.44	18.84
	12H	15.74	16.86	16.17	17.24	17.67	16.85	17.97	17.28	18.36	18.78
4H	2H	14.53	15.86	14.93	16.21	16.58	15.82	17.15	16.22	17.50	17.88
	3H	16.03	17.13	16.44	17.53	17.93	17.26	18.36	17.67	18.76	19.16
	4H	16.47	17.46	16.90	17.87	18.31	17.51	18.50	17.94	18.92	19.35
	6H	16.70	17.55	17.15	18.00	18.45	17.54	18.40	18.00	18.84	19.30
	8H	16.72	17.52	17.18	17.96	18.43	17.51	18.31	17.98	18.76	19.22
	12H	16.72	17.44	17.21	17.92	18.39	17.49	18.21	17.97	18.68	19.15
8H	4H	16.63	17.43	17.09	17.87	18.34	17.60	18.40	18.06	18.84	19.31
	6H	16.89	17.55	17.38	18.04	18.51	17.63	18.29	18.13	18.78	19.26
	8H	16.93	17.52	17.44	18.03	18.52	17.60	18.19	18.12	18.70	19.19
	12H	16.95	17.47	17.46	17.96	18.52	17.59	18.11	18.10	18.60	19.16
12H	4H	16.61	17.32	17.09	17.80	18.27	17.58	18.30	18.06	18.78	19.25
	6H	16.86	17.45	17.37	17.96	18.45	17.60	18.19	18.12	18.70	19.19
	8H	16.93	17.45	17.44	17.94	18.50	17.60	18.12	18.11	18.61	19.18

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

7 of 7