

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: P1498098

Luminaire Tested: MAE-G-2-120-1HI-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498098
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-2-120-1HI-STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

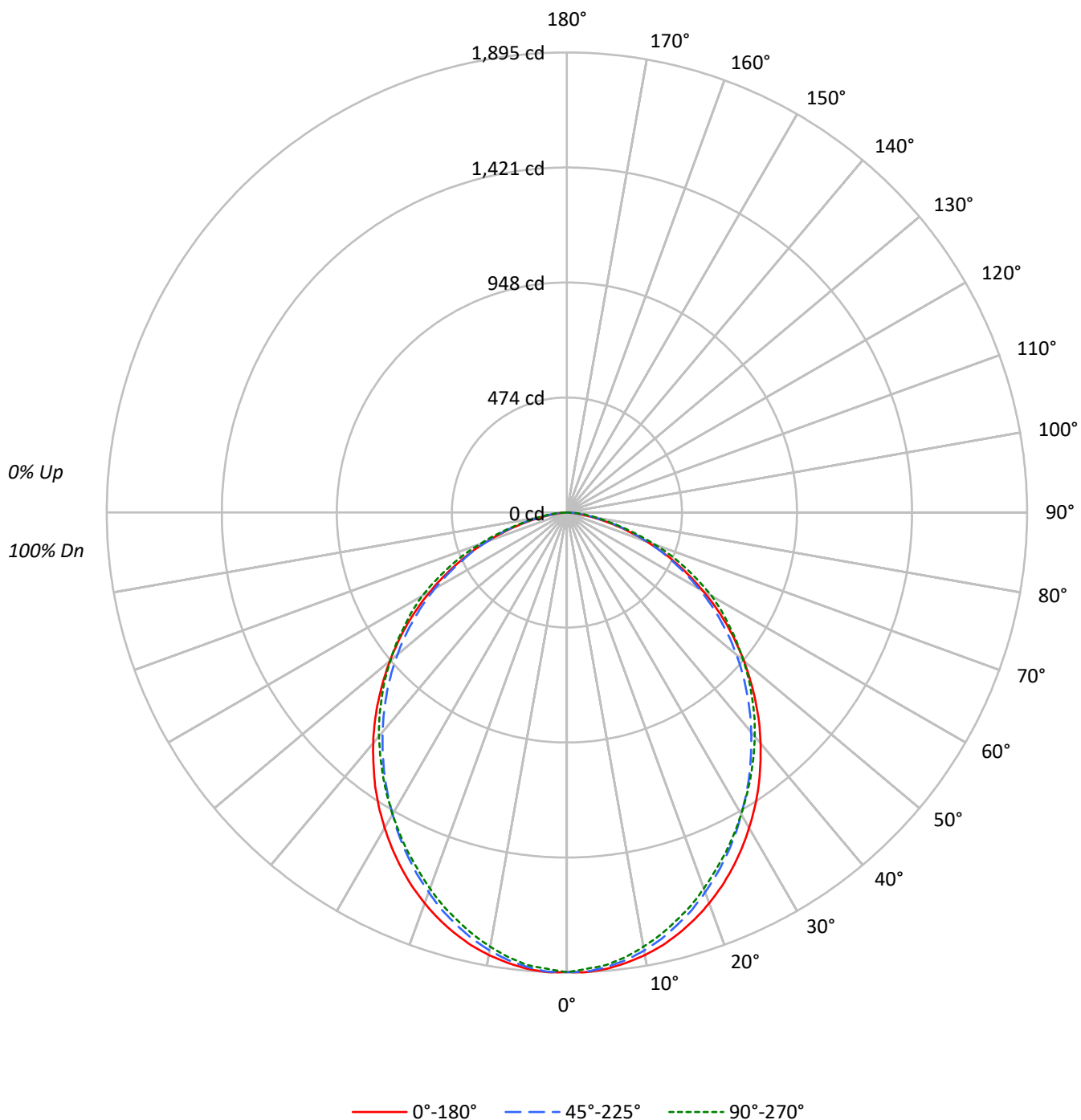
Lumens per Lamp: N/A
Luminaire Lumens: 4543.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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	97	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	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	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5094	5094	5094
5°	5096	5077	5054
10°	5059	5007	4964
15°	4994	4899	4848
20°	4905	4766	4720
25°	4795	4622	4589
30°	4663	4461	4460
35°	4522	4308	4340
40°	4360	4147	4228
45°	4179	3987	4103
50°	3988	3816	3973
55°	3765	3615	3833
60°	3491	3385	3704
65°	3174	3081	3426
70°	2752	2759	3027
75°	2193	2329	2443
80°	1512	1773	1898
85°	846	1334	1717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4179 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	3.9
10°-20°	496.1	10.9
20°-30°	721.5	15.9
30°-40°	831.4	18.3
40°-50°	823.8	18.1
50°-60°	706.0	15.5
60°-70°	496.9	10.9
70°-80°	238.6	5.3
80°-90°	50.9	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°	1395.4	30.7
0°-40°	2226.8	49.0
0°-60°	3756.6	82.7
0°-90°	4543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1893	1893	1893	1893	1893	
5°	1886	1885	1880	1867	1871	179
15°	1793	1783	1758	1737	1740	505
25°	1615	1593	1557	1540	1546	743
35°	1376	1347	1311	1310	1321	860
45°	1098	1072	1048	1065	1078	847
55°	802	778	771	798	817	716
65°	498	480	484	522	538	493
75°	211	203	224	236	235	228
85°	27	33	43	52	56	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1893.1	1893.1	1893.1	1893.1	1893.1
2.5°	1895.4	1896.8	1893.1	1879.3	1881.4
5°	1886.5	1884.8	1879.5	1866.9	1871.1
7.5°	1871.3	1868.9	1859.3	1844.6	1847.3
10°	1851.3	1846.4	1832.3	1814.0	1816.5
12.5°	1825.3	1818.9	1799.0	1778.6	1781.4
15°	1792.7	1783.4	1758.5	1737.3	1740.2
17.5°	1755.3	1744.9	1714.9	1692.0	1698.0
20°	1712.9	1698.7	1664.4	1643.0	1648.4
22.5°	1666.3	1648.4	1612.6	1592.3	1597.0
25°	1615.0	1593.1	1556.8	1540.2	1545.6
27.5°	1559.6	1535.7	1498.7	1483.8	1491.8
30°	1500.6	1474.9	1435.6	1426.7	1435.4
32.5°	1440.0	1412.9	1374.3	1370.1	1378.7
35°	1376.5	1346.7	1311.4	1310.4	1321.1
37.5°	1308.4	1280.1	1245.4	1252.6	1262.8
40°	1241.2	1211.8	1180.6	1191.7	1203.7
42.5°	1171.2	1143.0	1115.1	1128.9	1142.8
45°	1098.2	1071.6	1047.7	1064.8	1078.2
47.5°	1025.1	998.7	980.3	999.4	1015.0
50°	952.5	927.3	911.6	934.0	949.0
52.5°	876.4	852.3	842.4	865.8	884.4
55°	802.5	778.0	770.6	797.5	817.0
57.5°	726.1	706.6	700.6	731.1	754.9
60°	648.6	629.2	628.9	666.1	688.2
62.5°	573.0	553.8	555.2	597.7	613.0
65°	498.4	479.5	483.8	521.6	538.1
67.5°	424.9	407.3	418.3	453.7	464.3
70°	349.8	334.1	350.7	379.9	384.7
72.5°	279.4	266.0	287.3	306.9	307.3
75°	210.9	202.9	224.0	236.0	235.0
77.5°	150.8	146.6	165.5	172.9	172.3
80°	97.6	99.9	114.4	119.8	122.5
82.5°	56.9	61.7	72.8	84.2	87.2
85°	27.4	33.1	43.2	52.0	55.6
87.5°	9.5	13.3	18.0	19.9	19.3
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	16.44	18.03	16.81	18.34	18.65	16.70	18.28	17.06	18.59	18.91
	3H	17.89	19.31	18.26	19.64	20.00	18.32	19.74	18.69	20.07	20.43
	4H	18.31	19.65	18.71	20.00	20.37	18.80	20.14	19.20	20.48	20.86
	6H	18.53	19.77	18.94	20.13	20.52	19.07	20.31	19.48	20.67	21.06
	8H	18.56	19.74	18.99	20.13	20.53	19.15	20.33	19.57	20.72	21.12
	12H	18.57	19.70	19.00	20.08	20.51	19.20	20.33	19.63	20.71	21.14
4H	2H	16.97	18.30	17.37	18.65	19.03	17.17	18.51	17.57	18.86	19.24
	3H	18.59	19.71	19.00	20.11	20.51	19.00	20.11	19.41	20.51	20.91
	4H	19.10	20.11	19.54	20.52	20.96	19.59	20.59	20.02	21.00	21.44
	6H	19.40	20.27	19.86	20.71	21.17	19.96	20.83	20.41	21.27	21.73
	8H	19.45	20.27	19.92	20.71	21.18	20.07	20.88	20.53	21.33	21.79
	12H	19.48	20.21	19.96	20.68	21.15	20.16	20.89	20.64	21.36	21.83
8H	4H	19.32	20.14	19.79	20.58	21.05	19.76	20.58	20.22	21.02	21.49
	6H	19.69	20.36	20.18	20.85	21.33	20.21	20.88	20.70	21.37	21.85
	8H	19.77	20.37	20.28	20.88	21.37	20.37	20.97	20.88	21.48	21.97
	12H	19.82	20.36	20.33	20.85	21.41	20.51	21.05	21.02	21.54	22.10
12H	4H	19.33	20.06	19.82	20.54	21.01	19.76	20.49	20.24	20.97	21.44
	6H	19.70	20.31	20.21	20.82	21.30	20.21	20.82	20.72	21.32	21.81
	8H	19.83	20.36	20.34	20.85	21.42	20.41	20.95	20.92	21.44	22.00