

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: P1498794

Luminaire Tested: MAE-G-2-120-3STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

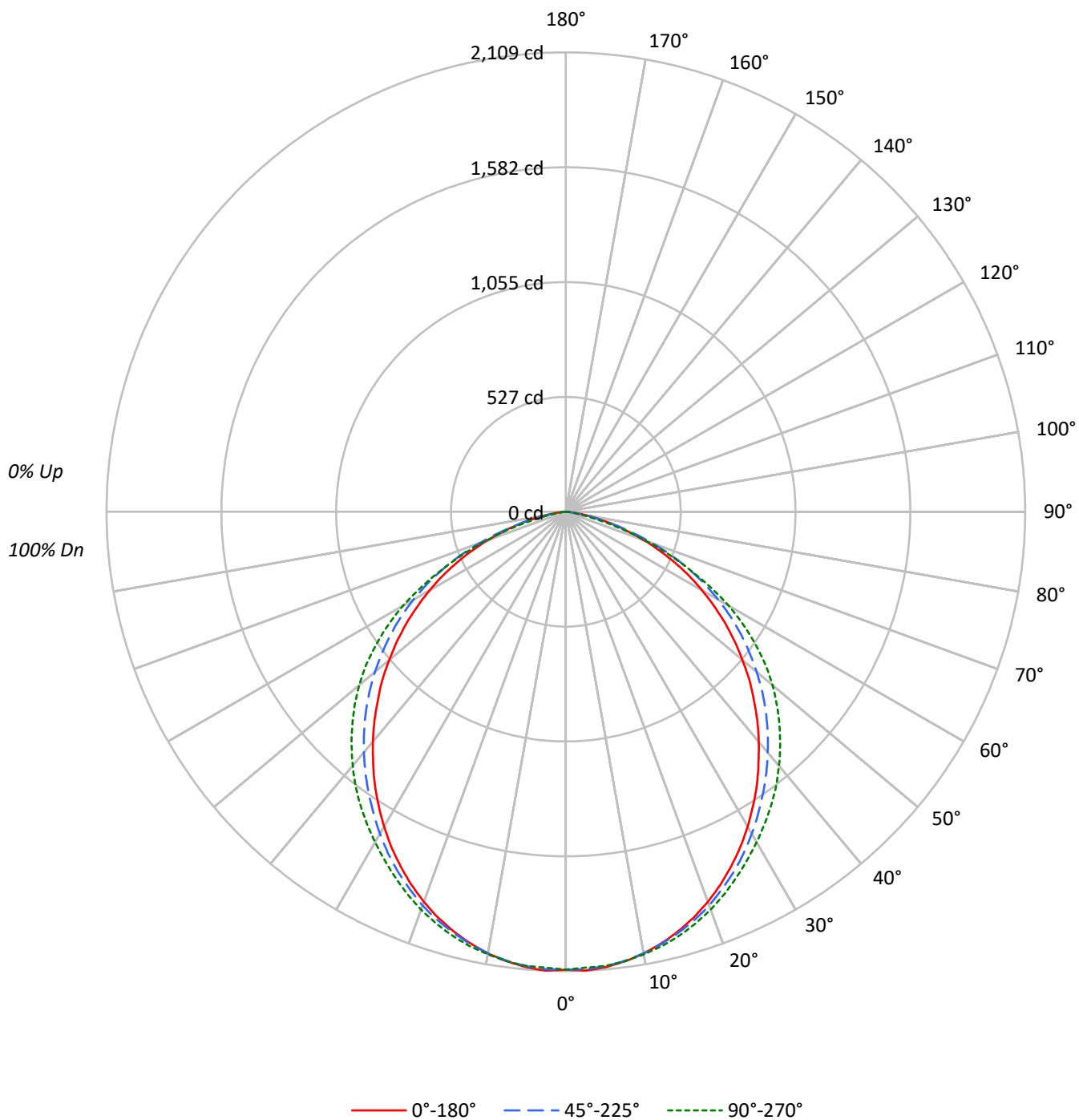
Lumens per Lamp: N/A
Luminaire Lumens: 5327.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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	105	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5656	5656	5656
5°	5668	5656	5654
10°	5626	5624	5637
15°	5555	5572	5613
20°	5458	5508	5565
25°	5331	5416	5502
30°	5187	5305	5443
35°	5024	5184	5402
40°	4841	5067	5348
45°	4644	4942	5280
50°	4429	4789	5186
55°	4191	4603	4986
60°	3889	4349	4653
65°	3512	3967	3985
70°	2998	3330	3098
75°	2354	2430	1905
80°	1536	1251	738
85°	735	494	392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5280 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	3.7
10°-20°	563.6	10.6
20°-30°	838.3	15.7
30°-40°	987.8	18.5
40°-50°	1001.5	18.8
50°-60°	872.7	16.4
60°-70°	596.9	11.2
70°-80°	239.8	4.5
80°-90°	27.8	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°	1600.5	30.0
0°-40°	2588.3	48.6
0°-60°	4462.6	83.8
0°-90°	5327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2098	2086	2094	2092	2093	199
15°	1994	1985	2000	2008	2015	562
25°	1796	1796	1824	1838	1853	827
35°	1529	1536	1578	1617	1644	955
45°	1220	1237	1298	1357	1387	942
55°	893	912	981	1043	1063	797
65°	552	576	623	628	626	545
75°	226	242	234	201	183	243
85°	24	21	16	14	13	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.8	2101.8	2101.8	2101.8	2101.8
2.5°	2108.6	2094.5	2101.8	2100.3	2094.9
5°	2098.3	2085.7	2093.9	2091.6	2093.0
7.5°	2081.8	2070.2	2078.9	2078.5	2080.8
10°	2059.0	2047.3	2058.1	2060.0	2062.9
12.5°	2028.9	2019.2	2032.3	2036.2	2042.0
15°	1993.8	1985.1	2000.2	2008.4	2014.8
17.5°	1953.0	1945.7	1965.2	1973.0	1981.7
20°	1905.9	1900.6	1923.4	1930.7	1943.4
22.5°	1853.5	1850.6	1874.3	1885.5	1900.1
25°	1795.6	1796.1	1824.2	1837.5	1852.9
27.5°	1734.9	1735.8	1768.0	1786.3	1802.9
30°	1669.2	1672.1	1707.2	1730.0	1751.8
32.5°	1599.8	1605.6	1643.5	1674.6	1698.9
35°	1529.3	1536.1	1577.9	1616.7	1644.4
37.5°	1453.0	1464.2	1511.4	1557.5	1586.1
40°	1378.2	1389.3	1442.3	1493.3	1522.5
42.5°	1300.9	1315.0	1371.4	1428.2	1456.4
45°	1220.3	1236.7	1298.5	1356.8	1387.4
47.5°	1142.9	1157.5	1222.6	1283.4	1315.0
50°	1057.9	1076.3	1143.9	1207.6	1238.8
52.5°	976.8	993.8	1063.2	1128.4	1156.6
55°	893.2	912.1	981.2	1042.8	1062.8
57.5°	807.6	830.5	897.1	948.6	967.5
60°	722.6	745.4	808.1	850.5	864.5
62.5°	638.0	662.4	717.3	745.4	745.4
65°	551.5	576.4	623.0	627.8	625.9
67.5°	465.1	489.9	525.3	516.5	510.7
70°	381.0	402.4	423.3	407.2	393.7
72.5°	299.3	319.8	323.2	299.9	282.8
75°	226.4	241.6	233.7	200.7	183.2
77.5°	157.9	166.7	150.2	116.6	102.6
80°	99.1	103.0	80.7	56.8	47.6
82.5°	53.5	53.9	35.0	28.7	26.7
85°	23.8	21.4	16.0	14.1	12.7
87.5°	8.3	7.3	5.8	5.4	4.4
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	16.95	18.53	17.31	18.84	19.16	17.93	19.51	18.29	19.83	20.14
	3H	18.36	19.78	18.73	20.10	20.47	19.13	20.56	19.51	20.88	21.24
	4H	18.75	20.08	19.15	20.43	20.81	19.35	20.68	19.75	21.03	21.41
	6H	18.92	20.16	19.34	20.52	20.91	19.37	20.60	19.78	20.97	21.36
	8H	18.94	20.11	19.36	20.50	20.90	19.34	20.52	19.77	20.91	21.31
	12H	18.93	20.05	19.36	20.44	20.86	19.32	20.44	19.75	20.82	21.25
4H	2H	17.62	18.95	18.02	19.30	19.68	18.41	19.74	18.81	20.09	20.47
	3H	19.19	20.29	19.60	20.69	21.09	19.78	20.88	20.19	21.28	21.68
	4H	19.66	20.66	20.09	21.07	21.51	20.05	21.04	20.48	21.46	21.90
	6H	19.90	20.76	20.36	21.21	21.66	20.10	20.96	20.56	21.40	21.86
	8H	19.93	20.73	20.39	21.17	21.64	20.08	20.88	20.54	21.32	21.79
	12H	19.93	20.64	20.41	21.12	21.59	20.06	20.77	20.54	21.25	21.72
8H	4H	19.81	20.61	20.27	21.06	21.52	20.17	20.97	20.63	21.42	21.88
	6H	20.08	20.74	20.58	21.23	21.71	20.23	20.89	20.72	21.38	21.86
	8H	20.12	20.71	20.64	21.22	21.71	20.21	20.80	20.72	21.31	21.79
	12H	20.14	20.66	20.65	21.15	21.71	20.19	20.71	20.70	21.20	21.77
12H	4H	19.79	20.51	20.27	20.99	21.46	20.16	20.88	20.64	21.35	21.82
	6H	20.05	20.65	20.57	21.15	21.64	20.20	20.80	20.72	21.31	21.79
	8H	20.12	20.64	20.63	21.13	21.70	20.21	20.73	20.71	21.22	21.78