

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: P1498308

Luminaire Tested: MAE-G-2-120-1STD-STD-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498308
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-2-120-1STD-STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

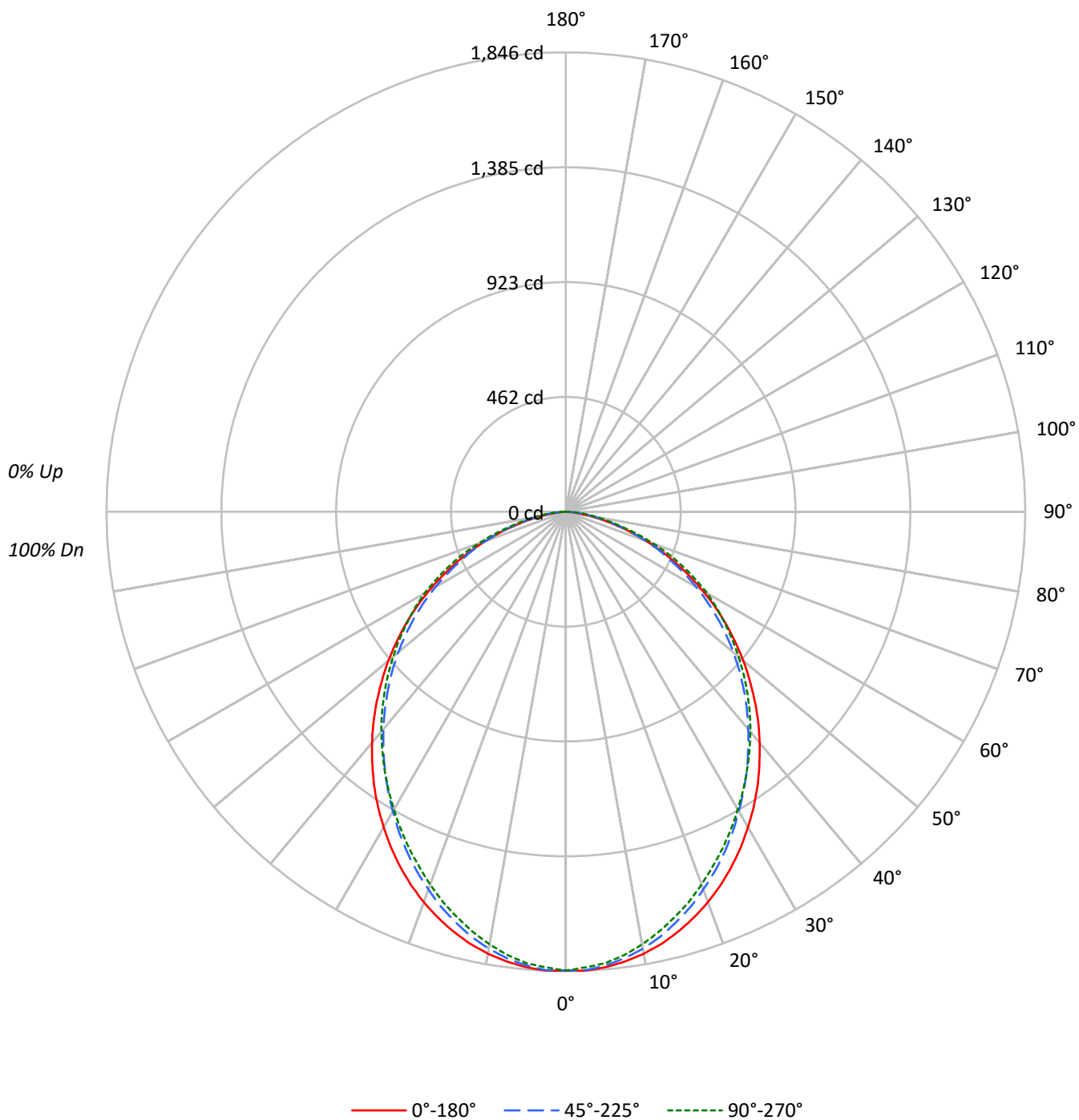
Lumens per Lamp: N/A
Luminaire Lumens: 4404.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	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	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	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	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4961	4961	4961
5°	4963	4943	4918
10°	4927	4871	4823
15°	4866	4761	4699
20°	4781	4625	4565
25°	4675	4480	4427
30°	4549	4318	4293
35°	4413	4165	4168
40°	4258	4006	4052
45°	4084	3847	3924
50°	3899	3679	3790
55°	3684	3484	3652
60°	3421	3260	3532
65°	3114	2973	3294
70°	2703	2679	2952
75°	2159	2292	2449
80°	1495	1787	1965
85°	837	1374	1794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	3.9
10°-20°	482.0	10.9
20°-30°	699.6	15.9
30°-40°	804.5	18.3
40°-50°	795.8	18.1
50°-60°	681.0	15.5
60°-70°	480.9	10.9
70°-80°	235.3	5.3
80°-90°	51.9	1.2
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°	1354.6	30.8
0°-40°	2159.1	49.0
0°-60°	3635.9	82.6
0°-90°	4404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1837	1836	1830	1817	1821	174
15°	1746	1736	1709	1685	1687	492
25°	1575	1551	1509	1487	1491	725
35°	1343	1310	1268	1261	1269	839
45°	1073	1042	1011	1021	1031	828
55°	785	757	743	762	778	701
65°	489	467	467	502	517	484
75°	208	198	220	235	236	224
85°	27	33	44	54	58	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.5	1843.5	1843.5	1843.5	1843.5
2.5°	1845.6	1847.2	1843.5	1829.5	1832.1
5°	1837.2	1835.7	1830.0	1816.6	1820.8
7.5°	1822.6	1820.0	1809.8	1793.9	1796.6
10°	1803.2	1798.0	1782.8	1762.8	1765.0
12.5°	1778.0	1771.0	1749.4	1726.6	1728.9
15°	1746.5	1736.3	1708.8	1684.7	1686.8
17.5°	1710.3	1698.7	1665.3	1639.0	1643.9
20°	1669.5	1653.6	1615.2	1590.1	1594.0
22.5°	1624.3	1604.5	1564.0	1539.6	1542.5
25°	1574.6	1550.6	1508.8	1487.4	1491.1
27.5°	1521.0	1494.6	1451.4	1431.7	1437.5
30°	1463.9	1435.4	1389.7	1375.4	1381.6
32.5°	1405.2	1374.8	1329.6	1319.5	1325.8
35°	1343.4	1310.4	1267.9	1261.0	1268.9
37.5°	1277.5	1245.5	1203.5	1204.1	1211.5
40°	1212.0	1179.0	1140.3	1144.5	1153.5
42.5°	1143.9	1112.1	1076.4	1083.3	1094.0
45°	1073.2	1042.5	1011.0	1021.0	1031.1
47.5°	1001.9	971.7	945.5	957.6	969.8
50°	931.3	902.1	878.9	894.1	905.4
52.5°	857.0	829.3	811.9	828.2	843.1
55°	785.2	757.0	742.7	762.4	778.5
57.5°	711.0	687.5	674.8	698.8	719.0
60°	635.6	612.5	605.7	636.8	656.2
62.5°	561.7	539.1	535.3	572.3	586.7
65°	489.1	466.9	466.9	501.9	517.3
67.5°	417.0	396.7	404.3	438.4	448.8
70°	343.6	325.5	340.5	369.6	375.2
72.5°	274.6	259.4	280.4	301.4	303.1
75°	207.7	198.2	220.4	234.8	235.5
77.5°	148.7	143.8	164.5	174.8	176.0
80°	96.5	98.7	115.3	123.5	126.8
82.5°	56.4	61.5	74.5	87.2	90.7
85°	27.1	33.2	44.5	54.1	58.1
87.5°	9.3	13.4	18.6	20.7	20.1
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	16.37	17.95	16.73	18.27	18.58	16.49	18.07	16.85	18.38	18.70
	3H	17.82	19.25	18.20	19.57	19.93	18.15	19.57	18.52	19.90	20.26
	4H	18.25	19.59	18.65	19.94	20.32	18.66	20.00	19.06	20.35	20.73
	6H	18.47	19.71	18.89	20.08	20.47	18.97	20.21	19.38	20.58	20.97
	8H	18.51	19.69	18.93	20.08	20.48	19.07	20.25	19.49	20.64	21.04
	12H	18.51	19.64	18.94	20.03	20.46	19.13	20.26	19.56	20.64	21.07
4H	2H	16.88	18.22	17.28	18.57	18.94	16.98	18.31	17.37	18.66	19.04
	3H	18.52	19.63	18.93	20.03	20.43	18.84	19.96	19.25	20.35	20.75
	4H	19.03	20.04	19.47	20.45	20.89	19.47	20.48	19.90	20.89	21.33
	6H	19.34	20.21	19.79	20.65	21.11	19.89	20.76	20.34	21.20	21.66
	8H	19.39	20.21	19.86	20.65	21.12	20.02	20.83	20.48	21.28	21.74
	12H	19.42	20.15	19.90	20.63	21.10	20.12	20.85	20.60	21.33	21.80
8H	4H	19.26	20.08	19.72	20.52	20.99	19.66	20.47	20.12	20.92	21.38
	6H	19.63	20.31	20.13	20.80	21.27	20.16	20.83	20.65	21.32	21.80
	8H	19.72	20.33	20.23	20.84	21.32	20.34	20.95	20.85	21.45	21.94
	12H	19.78	20.31	20.28	20.80	21.37	20.51	21.04	21.01	21.53	22.09
12H	4H	19.27	20.01	19.76	20.48	20.95	19.66	20.39	20.14	20.86	21.33
	6H	19.66	20.26	20.17	20.77	21.26	20.16	20.77	20.67	21.28	21.76
	8H	19.79	20.32	20.29	20.81	21.38	20.39	20.93	20.90	21.42	21.98