

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: P1498597

Luminaire Tested: MAE-G-2-120-2STD-STD-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-STD-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

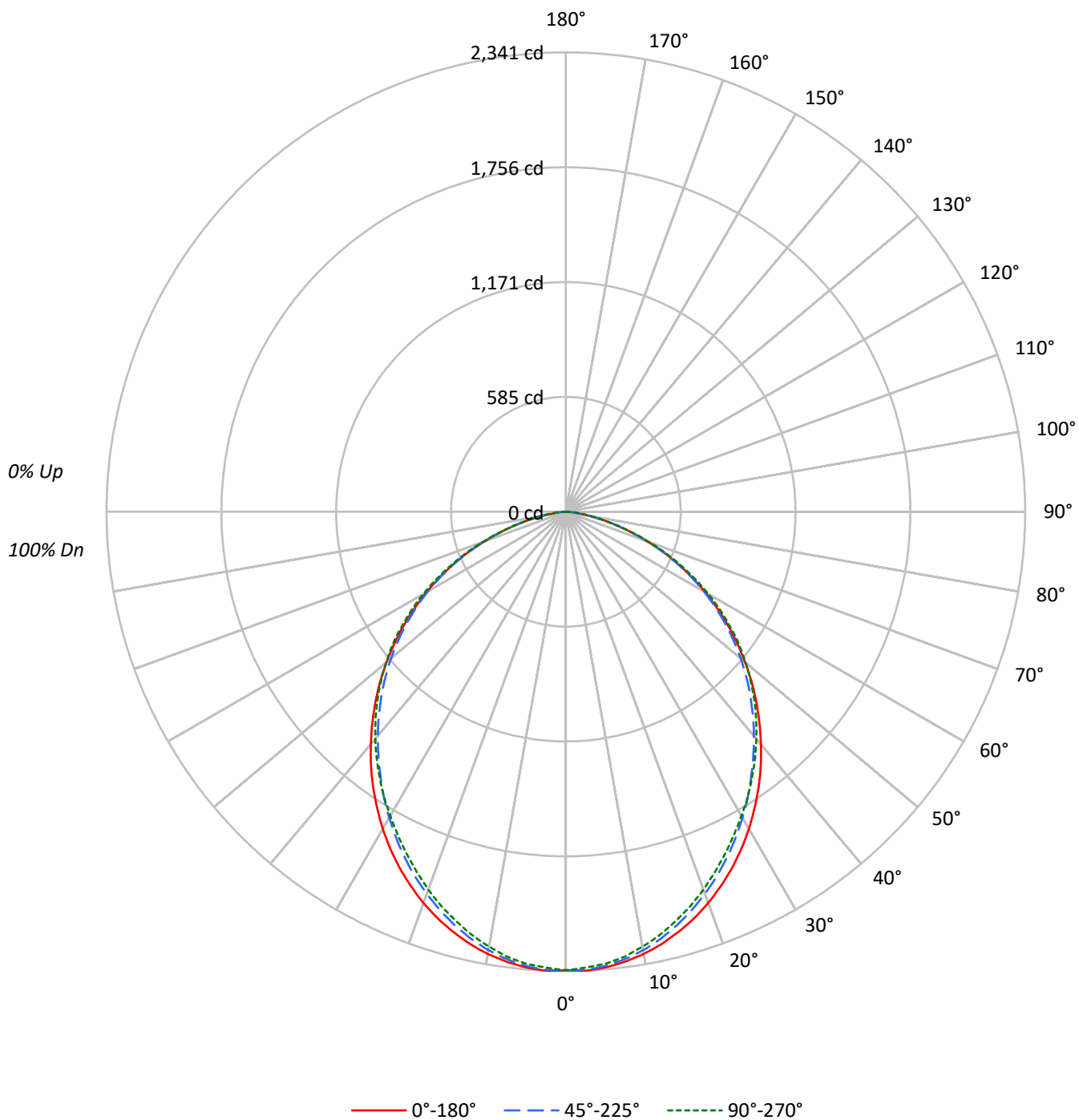
Lumens per Lamp: N/A
Luminaire Lumens: 5677.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.6
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	81	98	90	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6287	6287	6287
5°	6296	6275	6246
10°	6252	6199	6150
15°	6176	6080	6017
20°	6076	5933	5868
25°	5948	5771	5706
30°	5797	5594	5560
35°	5627	5411	5434
40°	5433	5238	5306
45°	5223	5061	5171
50°	4994	4870	5004
55°	4731	4644	4796
60°	4414	4365	4525
65°	4015	3995	4113
70°	3469	3496	3560
75°	2767	2848	2836
80°	1877	2001	2032
85°	969	1355	1741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5223 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	3.9
10°-20°	614.8	10.8
20°-30°	898.3	15.8
30°-40°	1041.1	18.3
40°-50°	1038.5	18.3
50°-60°	894.1	15.7
60°-70°	624.7	11.0
70°-80°	290.5	5.1
80°-90°	55.4	1.0
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°	1732.8	30.5
0°-40°	2773.9	48.9
0°-60°	4706.5	82.9
0°-90°	5677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2336	2336	2336	2336	2336	
5°	2331	2323	2323	2309	2312	221
15°	2217	2201	2182	2158	2160	625
25°	2003	1979	1944	1919	1922	922
35°	1713	1682	1647	1644	1654	1071
45°	1372	1345	1330	1346	1359	1059
55°	1008	986	990	1012	1022	900
65°	631	619	627	639	646	624
75°	266	262	274	273	273	286
85°	31	36	44	53	56	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2336.4	2336.4	2336.4	2336.4	2336.4
2.5°	2341.0	2333.7	2336.4	2325.8	2325.3
5°	2330.8	2322.6	2323.1	2309.2	2312.4
7.5°	2312.9	2303.3	2300.1	2284.3	2287.1
10°	2288.1	2276.1	2268.7	2249.2	2250.6
12.5°	2256.3	2242.6	2229.9	2207.3	2209.7
15°	2216.7	2201.2	2182.4	2158.5	2159.7
17.5°	2173.1	2156.0	2130.0	2104.5	2108.1
20°	2121.6	2102.6	2071.9	2045.4	2049.2
22.5°	2064.4	2042.7	2010.7	1984.2	1986.0
25°	2003.3	1979.3	1943.5	1919.3	1921.6
27.5°	1937.0	1910.2	1873.5	1851.7	1855.7
30°	1865.7	1837.5	1800.2	1783.4	1789.4
32.5°	1790.6	1761.6	1725.3	1715.4	1724.4
35°	1712.9	1681.9	1647.0	1644.0	1654.0
37.5°	1631.9	1601.4	1569.6	1573.2	1583.6
40°	1546.5	1517.6	1491.0	1498.9	1510.4
42.5°	1460.3	1432.4	1411.3	1424.0	1436.2
45°	1372.4	1344.6	1329.9	1345.8	1358.8
47.5°	1284.9	1257.0	1247.9	1266.7	1278.4
50°	1193.0	1167.8	1163.3	1183.7	1195.2
52.5°	1100.0	1076.7	1077.3	1099.5	1113.8
55°	1008.4	986.4	989.9	1012.1	1022.2
57.5°	914.1	896.4	901.9	922.0	932.1
60°	820.2	803.8	811.0	830.6	840.7
62.5°	725.3	710.8	719.9	736.8	743.7
65°	630.6	619.3	627.4	639.0	645.9
67.5°	537.2	526.8	536.4	548.0	550.9
70°	440.9	433.8	444.4	451.9	452.5
72.5°	352.1	345.5	356.3	360.1	358.8
75°	266.1	262.3	273.9	273.1	272.8
77.5°	187.8	188.7	195.7	195.5	195.6
80°	121.1	125.3	129.1	131.6	131.1
82.5°	68.2	72.3	77.1	86.7	90.5
85°	31.4	35.5	43.9	52.7	56.4
87.5°	10.6	13.8	18.4	19.9	18.9
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	17.32	18.90	17.68	19.21	19.53	17.50	19.09	17.87	19.40	19.71
	3H	18.78	20.21	19.16	20.53	20.89	18.98	20.41	19.36	20.74	21.10
	4H	19.21	20.55	19.61	20.89	21.27	19.41	20.75	19.81	21.10	21.47
	6H	19.42	20.65	19.83	21.02	21.41	19.63	20.87	20.04	21.23	21.62
	8H	19.45	20.62	19.87	21.01	21.41	19.68	20.86	20.11	21.25	21.65
	12H	19.44	20.57	19.87	20.95	21.38	19.71	20.84	20.14	21.22	21.65
4H	2H	17.87	19.21	18.27	19.56	19.93	18.02	19.36	18.42	19.71	20.08
	3H	19.51	20.63	19.92	21.02	21.43	19.69	20.80	20.10	21.20	21.60
	4H	20.03	21.03	20.46	21.44	21.88	20.21	21.21	20.64	21.63	22.06
	6H	20.31	21.18	20.77	21.63	22.08	20.51	21.38	20.97	21.82	22.28
	8H	20.36	21.17	20.82	21.61	22.08	20.59	21.40	21.05	21.84	22.31
	12H	20.37	21.10	20.85	21.58	22.05	20.64	21.37	21.12	21.85	22.32
8H	4H	20.22	21.03	20.68	21.47	21.94	20.38	21.20	20.85	21.64	22.11
	6H	20.56	21.23	21.06	21.72	22.20	20.75	21.42	21.24	21.91	22.38
	8H	20.63	21.23	21.14	21.74	22.23	20.86	21.46	21.37	21.97	22.45
	12H	20.67	21.20	21.18	21.69	22.26	20.96	21.49	21.46	21.98	22.54
12H	4H	20.22	20.95	20.70	21.42	21.89	20.38	21.11	20.86	21.59	22.06
	6H	20.56	21.17	21.07	21.67	22.16	20.74	21.35	21.26	21.86	22.34
	8H	20.67	21.20	21.18	21.69	22.26	20.89	21.42	21.40	21.91	22.48