

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: P1498591

Luminaire Tested: MAE-G-2-120-2STD-STD-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498591
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-40-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

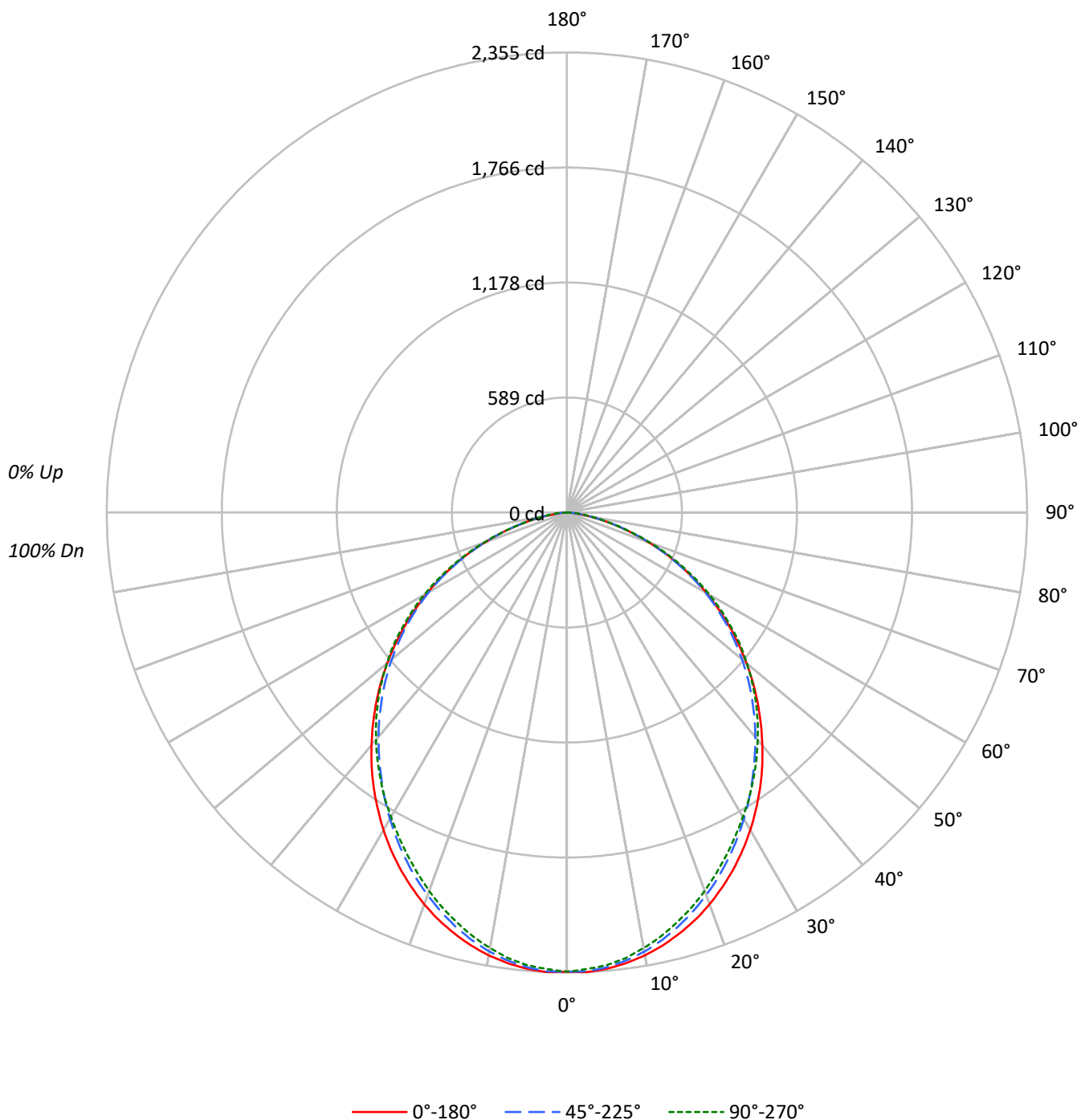
Lumens per Lamp: N/A
Luminaire Lumens: 5711.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	6325	6325	6325
5°	6334	6313	6284
10°	6290	6236	6187
15°	6213	6116	6053
20°	6112	5969	5903
25°	5984	5805	5740
30°	5832	5627	5593
35°	5661	5443	5466
40°	5465	5269	5337
45°	5254	5091	5202
50°	5025	4899	5033
55°	4759	4672	4824
60°	4441	4391	4552
65°	4039	4018	4138
70°	3489	3518	3581
75°	2782	2865	2854
80°	1888	2013	2044
85°	976	1365	1751

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.0	3.9
10°-20°	618.5	10.8
20°-30°	903.7	15.8
30°-40°	1047.3	18.3
40°-50°	1044.7	18.3
50°-60°	899.4	15.7
60°-70°	628.4	11.0
70°-80°	292.3	5.1
80°-90°	55.7	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°	1743.2	30.5
0°-40°	2790.5	48.9
0°-60°	4734.6	82.9
0°-90°	5711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2350	2350	2350	2350	2350	
5°	2345	2337	2337	2323	2326	222
15°	2230	2214	2196	2171	2173	629
25°	2015	1991	1955	1931	1933	928
35°	1723	1692	1657	1654	1664	1077
45°	1381	1353	1338	1354	1367	1065
55°	1014	992	996	1018	1028	906
65°	634	623	631	643	650	628
75°	268	264	276	275	274	288
85°	32	36	44	53	57	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2350.4	2350.4	2350.4	2350.4	2350.4
2.5°	2355.1	2347.7	2350.4	2339.7	2339.3
5°	2344.8	2336.6	2337.0	2323.1	2326.3
7.5°	2326.8	2317.1	2313.8	2297.9	2300.8
10°	2301.9	2289.8	2282.3	2262.7	2264.1
12.5°	2269.8	2256.0	2243.2	2220.5	2222.8
15°	2230.1	2214.3	2195.5	2171.4	2172.6
17.5°	2186.2	2168.9	2142.8	2117.1	2120.8
20°	2134.3	2115.1	2084.4	2057.7	2061.4
22.5°	2076.8	2055.0	2022.8	1996.1	1998.0
25°	2015.3	1991.1	1955.1	1930.8	1933.1
27.5°	1948.6	1921.6	1884.8	1862.7	1866.9
30°	1876.9	1848.5	1811.0	1794.1	1800.0
32.5°	1801.4	1772.1	1735.6	1725.7	1734.7
35°	1723.2	1692.0	1656.9	1653.7	1663.8
37.5°	1641.7	1611.0	1579.0	1582.5	1593.0
40°	1555.8	1526.6	1499.9	1507.9	1519.4
42.5°	1469.0	1441.0	1419.7	1432.4	1444.8
45°	1380.6	1352.7	1337.8	1353.8	1367.0
47.5°	1292.6	1264.5	1255.4	1274.2	1286.0
50°	1200.2	1174.9	1170.2	1190.8	1202.2
52.5°	1106.6	1083.2	1083.8	1106.1	1120.5
55°	1014.4	992.4	995.8	1018.1	1028.3
57.5°	919.6	901.8	907.4	927.5	937.7
60°	825.1	808.6	815.8	835.5	845.7
62.5°	729.6	715.1	724.2	741.2	748.2
65°	634.4	623.0	631.1	642.8	649.9
67.5°	540.5	530.0	539.5	551.3	554.2
70°	443.5	436.4	447.1	454.7	455.1
72.5°	354.3	347.6	358.4	362.3	360.9
75°	267.6	263.9	275.6	274.9	274.5
77.5°	189.0	189.8	196.9	196.6	196.8
80°	121.8	126.1	129.9	132.4	131.9
82.5°	68.6	72.7	77.6	87.2	91.1
85°	31.6	35.7	44.2	53.0	56.7
87.5°	10.7	13.9	18.6	20.1	19.1
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	17.34	18.92	17.70	19.23	19.55	17.52	19.11	17.89	19.42	19.73
	3H	18.80	20.23	19.18	20.55	20.92	19.00	20.43	19.38	20.76	21.12
	4H	19.23	20.57	19.63	20.92	21.29	19.43	20.77	19.83	21.12	21.49
	6H	19.44	20.68	19.85	21.04	21.43	19.65	20.89	20.06	21.25	21.64
	8H	19.47	20.65	19.89	21.03	21.43	19.70	20.88	20.13	21.27	21.67
	12H	19.47	20.59	19.90	20.98	21.40	19.73	20.86	20.16	21.24	21.67
4H	2H	17.89	19.23	18.29	19.58	19.95	18.04	19.38	18.44	19.73	20.10
	3H	19.53	20.65	19.94	21.05	21.45	19.71	20.82	20.12	21.22	21.62
	4H	20.05	21.05	20.48	21.46	21.90	20.23	21.23	20.66	21.65	22.08
	6H	20.33	21.21	20.79	21.65	22.10	20.53	21.40	20.99	21.85	22.30
	8H	20.38	21.19	20.84	21.64	22.10	20.61	21.42	21.07	21.86	22.33
	12H	20.39	21.12	20.87	21.60	22.07	20.66	21.39	21.14	21.87	22.34
8H	4H	20.24	21.05	20.70	21.49	21.96	20.40	21.22	20.87	21.66	22.13
	6H	20.58	21.25	21.08	21.74	22.22	20.77	21.44	21.26	21.93	22.41
	8H	20.65	21.26	21.17	21.76	22.25	20.88	21.48	21.39	21.99	22.48
	12H	20.69	21.22	21.20	21.71	22.28	20.98	21.51	21.49	22.00	22.56
12H	4H	20.24	20.97	20.72	21.44	21.91	20.40	21.13	20.88	21.61	22.08
	6H	20.58	21.19	21.10	21.70	22.18	20.77	21.37	21.28	21.88	22.36
	8H	20.69	21.22	21.20	21.71	22.28	20.91	21.44	21.42	21.94	22.50