

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: P1498789

Luminaire Tested: MAE-G-2-120-3LO-STD-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498789
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-2-120-3LO-STD-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

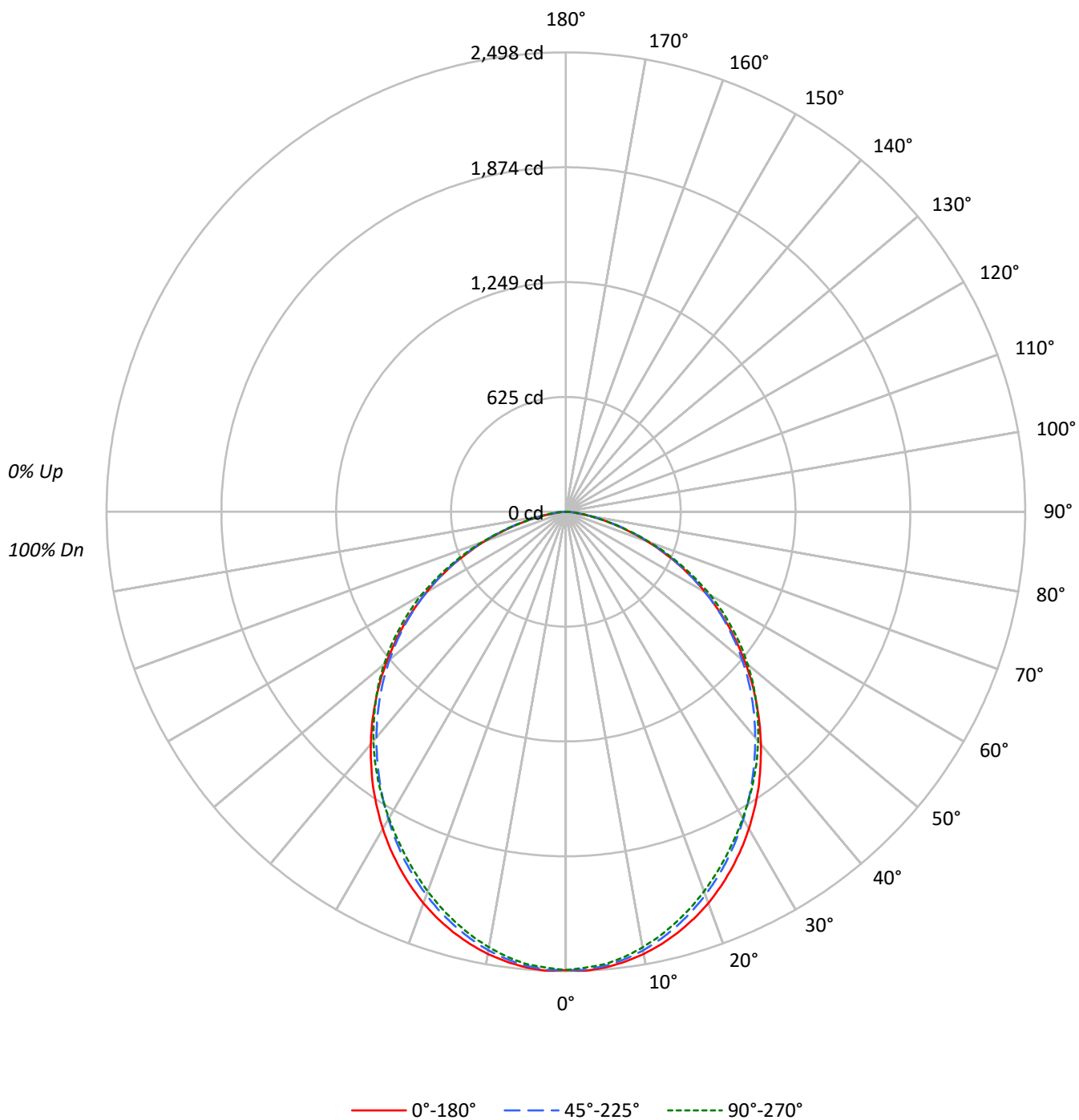
Lumens per Lamp: N/A
Luminaire Lumens: 6086.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 71.5
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	80	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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6707	6707	6707
5°	6718	6695	6668
10°	6672	6617	6572
15°	6593	6497	6441
20°	6486	6351	6290
25°	6346	6184	6129
30°	6186	5999	5979
35°	6004	5812	5849
40°	5798	5629	5716
45°	5574	5444	5570
50°	5329	5238	5403
55°	5051	5003	5177
60°	4709	4705	4895
65°	4284	4315	4432
70°	3698	3784	3818
75°	2947	3069	2977
80°	1998	2114	2091
85°	1044	1414	1782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	3.9
10°-20°	657.0	10.8
20°-30°	961.7	15.8
30°-40°	1116.1	18.3
40°-50°	1115.0	18.3
50°-60°	961.4	15.8
60°-70°	672.1	11.0
70°-80°	310.3	5.1
80°-90°	57.9	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°	1853.2	30.5
0°-40°	2969.3	48.8
0°-60°	5045.7	82.9
0°-90°	6086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2492	2492	2492	2492	2492	
5°	2487	2478	2478	2465	2468	236
15°	2366	2350	2332	2309	2312	667
25°	2137	2113	2083	2059	2064	984
35°	1828	1797	1769	1767	1781	1142
45°	1465	1439	1430	1449	1464	1130
55°	1077	1056	1066	1093	1103	961
65°	673	663	678	692	696	665
75°	283	282	295	291	286	304
85°	34	38	46	54	58	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2492.3	2492.3	2492.3	2492.3	2492.3
2.5°	2498.1	2489.4	2492.3	2481.5	2480.9
5°	2487.0	2477.6	2478.4	2464.6	2468.4
7.5°	2467.8	2457.2	2454.2	2438.6	2441.7
10°	2441.8	2428.7	2421.7	2403.2	2405.2
12.5°	2407.2	2392.9	2380.9	2359.3	2362.5
15°	2366.4	2350.0	2332.0	2309.3	2312.0
17.5°	2319.1	2300.4	2278.3	2252.4	2257.3
20°	2265.0	2244.1	2217.8	2190.6	2196.6
22.5°	2204.2	2181.4	2152.1	2126.3	2131.7
25°	2137.4	2113.3	2082.9	2058.6	2064.2
27.5°	2067.0	2040.0	2008.4	1988.3	1994.5
30°	1990.9	1962.4	1930.5	1914.5	1924.2
32.5°	1910.5	1881.4	1851.2	1842.0	1853.4
35°	1827.7	1796.8	1769.1	1767.2	1780.6
37.5°	1738.8	1711.2	1686.6	1692.0	1705.5
40°	1650.5	1621.9	1602.5	1612.6	1627.1
42.5°	1559.1	1532.6	1517.4	1533.2	1546.3
45°	1464.7	1439.0	1430.5	1449.2	1463.6
47.5°	1371.3	1345.6	1342.4	1363.8	1379.9
50°	1272.9	1250.0	1251.3	1276.5	1290.6
52.5°	1174.1	1152.5	1159.3	1186.6	1200.7
55°	1076.7	1056.0	1066.3	1093.2	1103.4
57.5°	975.6	960.1	972.1	996.6	1007.9
60°	874.9	860.7	874.3	898.6	909.6
62.5°	774.1	762.3	776.8	798.2	803.3
65°	672.8	662.8	677.7	692.2	696.0
67.5°	570.1	563.8	579.5	590.3	591.8
70°	470.0	463.1	480.9	487.9	485.2
72.5°	372.7	369.7	384.3	387.5	381.6
75°	283.4	281.8	295.2	291.3	286.3
77.5°	200.5	200.4	210.3	205.3	203.0
80°	128.9	132.6	136.4	136.5	134.9
82.5°	72.6	77.5	80.6	89.4	93.2
85°	33.8	37.5	45.8	54.1	57.7
87.5°	11.4	14.4	19.0	20.5	19.4
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	17.54	19.13	17.91	19.44	19.76	17.80	19.39	18.17	19.70	20.01
	3H	19.00	20.43	19.38	20.75	21.11	19.27	20.70	19.65	21.02	21.38
	4H	19.43	20.76	19.82	21.11	21.49	19.68	21.02	20.08	21.37	21.74
	6H	19.63	20.87	20.05	21.24	21.63	19.88	21.12	20.29	21.48	21.88
	8H	19.66	20.84	20.09	21.23	21.63	19.93	21.10	20.35	21.49	21.89
	12H	19.66	20.79	20.09	21.17	21.60	19.95	21.08	20.38	21.46	21.89
4H	2H	18.11	19.45	18.51	19.80	20.17	18.32	19.66	18.72	20.01	20.38
	3H	19.75	20.86	20.16	21.26	21.66	19.98	21.09	20.39	21.49	21.89
	4H	20.26	21.26	20.69	21.67	22.11	20.48	21.48	20.91	21.90	22.33
	6H	20.54	21.41	21.00	21.85	22.31	20.76	21.63	21.22	22.07	22.53
	8H	20.58	21.40	21.05	21.84	22.31	20.83	21.64	21.29	22.08	22.55
	12H	20.60	21.33	21.08	21.80	22.27	20.87	21.60	21.36	22.08	22.55
8H	4H	20.45	21.26	20.91	21.71	22.17	20.65	21.47	21.11	21.91	22.38
	6H	20.79	21.46	21.28	21.95	22.43	20.99	21.66	21.48	22.15	22.63
	8H	20.86	21.46	21.37	21.97	22.46	21.09	21.69	21.60	22.20	22.69
	12H	20.90	21.43	21.40	21.92	22.48	21.18	21.71	21.69	22.20	22.76
12H	4H	20.45	21.18	20.93	21.65	22.12	20.65	21.38	21.13	21.86	22.33
	6H	20.79	21.39	21.30	21.90	22.39	20.99	21.59	21.50	22.10	22.58
	8H	20.89	21.42	21.40	21.92	22.48	21.12	21.65	21.63	22.14	22.71