

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: P1498762

Luminaire Tested: MAE-G-2-120-3LO-LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498762
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-LO-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

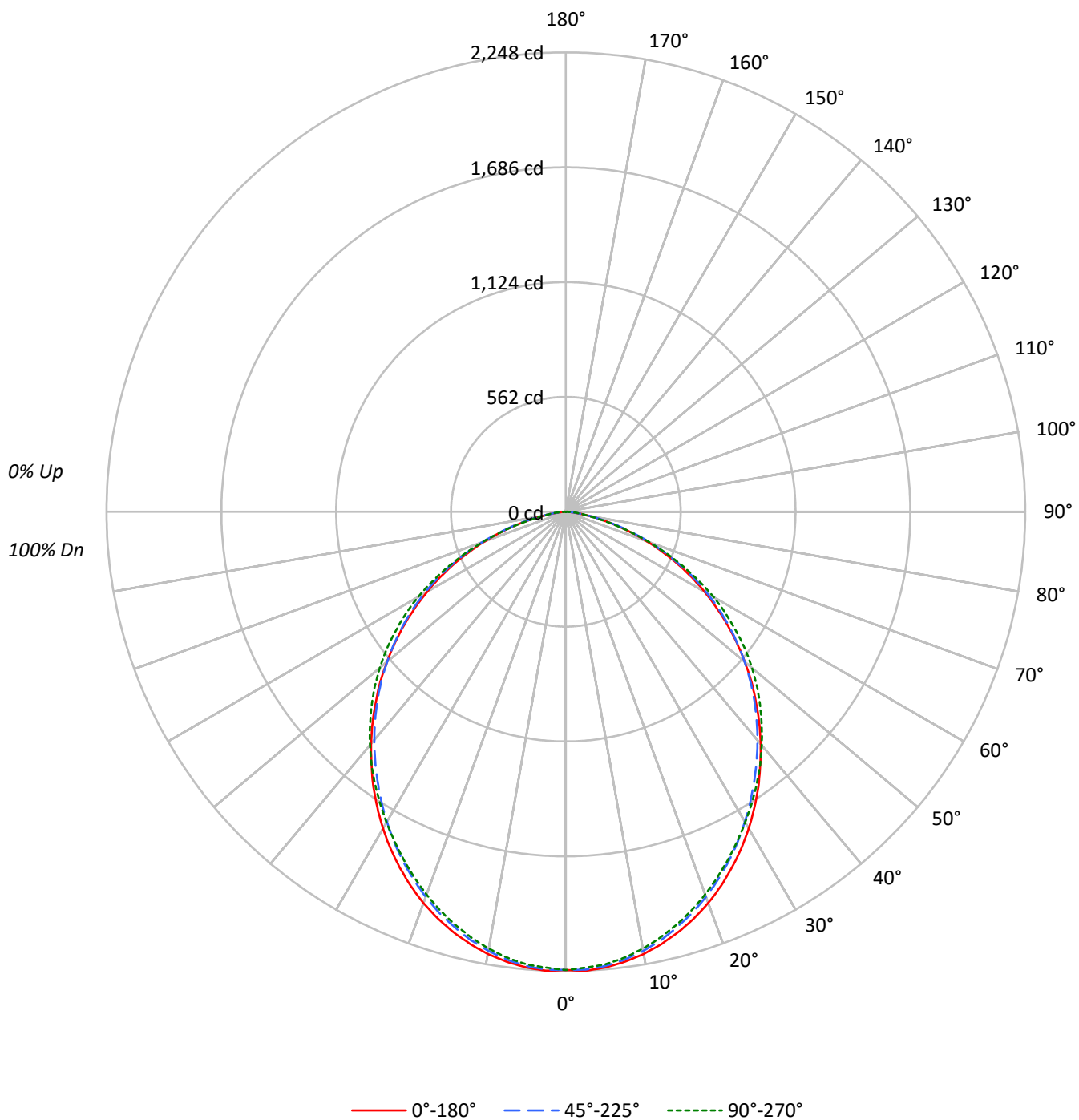
Lumens per Lamp: N/A
Luminaire Lumens: 5512.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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
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	81	98	91	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	57		67	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	40	35	60	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	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6035	6035	6035
5°	6046	6027	6006
10°	6004	5963	5931
15°	5932	5863	5829
20°	5834	5743	5708
25°	5707	5602	5576
30°	5561	5443	5453
35°	5396	5281	5349
40°	5209	5124	5239
45°	5006	4963	5118
50°	4784	4781	4976
55°	4533	4571	4771
60°	4223	4303	4500
65°	3837	3943	4033
70°	3306	3430	3413
75°	2627	2733	2569
80°	1770	1805	1695
85°	914	1145	1402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5118 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	3.8
10°-20°	593.0	10.8
20°-30°	870.4	15.8
30°-40°	1012.8	18.4
40°-50°	1014.5	18.4
50°-60°	876.4	15.9
60°-70°	610.3	11.1
70°-80°	275.2	5.0
80°-90°	48.3	0.9
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°	1674.5	30.4
0°-40°	2687.3	48.8
0°-60°	4578.2	83.1
0°-90°	5512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2243	2243	2243	2243	2243	
5°	2238	2229	2231	2220	2223	212
15°	2129	2115	2105	2089	2092	600
25°	1922	1904	1887	1871	1878	885
35°	1642	1621	1608	1613	1628	1026
45°	1315	1299	1304	1328	1345	1015
55°	966	954	974	1006	1017	863
65°	603	600	619	631	633	596
75°	253	254	263	254	247	271
85°	30	32	37	43	45	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2242.8	2242.8	2242.8	2242.8	2242.8
2.5°	2248.4	2239.3	2242.8	2234.4	2233.1
5°	2238.2	2228.9	2231.0	2220.3	2223.3
7.5°	2220.9	2210.8	2210.2	2198.4	2201.2
10°	2197.3	2185.4	2182.1	2168.6	2170.6
12.5°	2166.0	2153.5	2147.0	2131.5	2134.9
15°	2129.2	2115.3	2104.7	2089.2	2092.3
17.5°	2086.4	2071.2	2058.2	2040.2	2045.5
20°	2037.4	2020.9	2005.4	1986.4	1993.2
22.5°	1982.6	1965.0	1947.4	1930.2	1936.9
25°	1922.2	1904.2	1886.7	1870.9	1877.9
27.5°	1858.6	1838.6	1820.8	1809.1	1816.8
30°	1789.8	1769.1	1751.6	1743.8	1755.0
32.5°	1717.2	1696.4	1680.8	1679.6	1692.5
35°	1642.5	1620.7	1607.6	1613.2	1628.3
37.5°	1562.3	1543.8	1533.9	1546.3	1561.6
40°	1482.8	1463.4	1458.6	1475.4	1491.4
42.5°	1400.5	1383.2	1382.2	1404.2	1419.1
45°	1315.3	1299.2	1304.0	1328.5	1344.8
47.5°	1231.6	1215.0	1224.5	1251.4	1269.2
50°	1142.7	1128.9	1142.1	1172.5	1188.6
52.5°	1054.2	1041.1	1058.8	1091.0	1106.6
55°	966.2	954.2	974.4	1005.7	1016.9
57.5°	875.2	867.8	888.8	916.4	928.3
60°	784.6	778.1	799.6	825.4	836.2
62.5°	693.9	689.5	710.3	731.4	735.2
65°	602.6	599.6	619.2	630.9	633.4
67.5°	510.2	509.9	528.1	534.6	534.6
70°	420.2	418.9	436.0	438.3	433.8
72.5°	332.7	334.1	345.6	343.8	336.3
75°	252.7	254.3	262.9	254.0	247.1
77.5°	178.4	179.9	184.3	174.5	170.3
80°	114.2	117.7	116.5	112.3	109.4
82.5°	63.9	67.6	66.6	72.0	74.5
85°	29.6	31.9	37.1	42.9	45.4
87.5°	10.0	12.1	15.3	16.3	15.3
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	17.18	18.76	17.54	19.08	19.39	17.56	19.15	17.93	19.46	19.78
	3H	18.63	20.05	19.00	20.38	20.74	18.98	20.41	19.36	20.73	21.09
	4H	19.04	20.38	19.44	20.73	21.11	19.36	20.69	19.75	21.04	21.42
	6H	19.25	20.48	19.66	20.85	21.24	19.52	20.75	19.93	21.12	21.51
	8H	19.27	20.45	19.70	20.84	21.24	19.54	20.72	19.97	21.11	21.51
	12H	19.27	20.40	19.70	20.78	21.21	19.56	20.69	19.99	21.07	21.50
4H	2H	17.76	19.10	18.16	19.45	19.82	18.07	19.41	18.47	19.76	20.14
	3H	19.38	20.50	19.79	20.89	21.29	19.68	20.79	20.09	21.19	21.59
	4H	19.89	20.89	20.32	21.30	21.74	20.14	21.14	20.57	21.55	21.99
	6H	20.16	21.03	20.62	21.48	21.93	20.37	21.24	20.82	21.68	22.14
	8H	20.20	21.02	20.67	21.46	21.93	20.41	21.22	20.87	21.67	22.13
	12H	20.22	20.94	20.70	21.42	21.89	20.45	21.17	20.93	21.65	22.12
8H	4H	20.07	20.89	20.53	21.33	21.79	20.30	21.11	20.76	21.55	22.02
	6H	20.40	21.07	20.90	21.56	22.04	20.58	21.25	21.07	21.74	22.21
	8H	20.47	21.07	20.98	21.57	22.06	20.65	21.25	21.16	21.76	22.25
	12H	20.50	21.03	21.01	21.52	22.08	20.72	21.24	21.22	21.74	22.30
12H	4H	20.07	20.80	20.55	21.27	21.74	20.29	21.02	20.78	21.50	21.97
	6H	20.39	21.00	20.91	21.50	21.99	20.57	21.17	21.08	21.68	22.17
	8H	20.49	21.02	21.00	21.51	22.08	20.68	21.21	21.19	21.70	22.26