

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: P1498621

Luminaire Tested: MAE-G-2-120-3HI-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498621
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-2-120-3HI-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

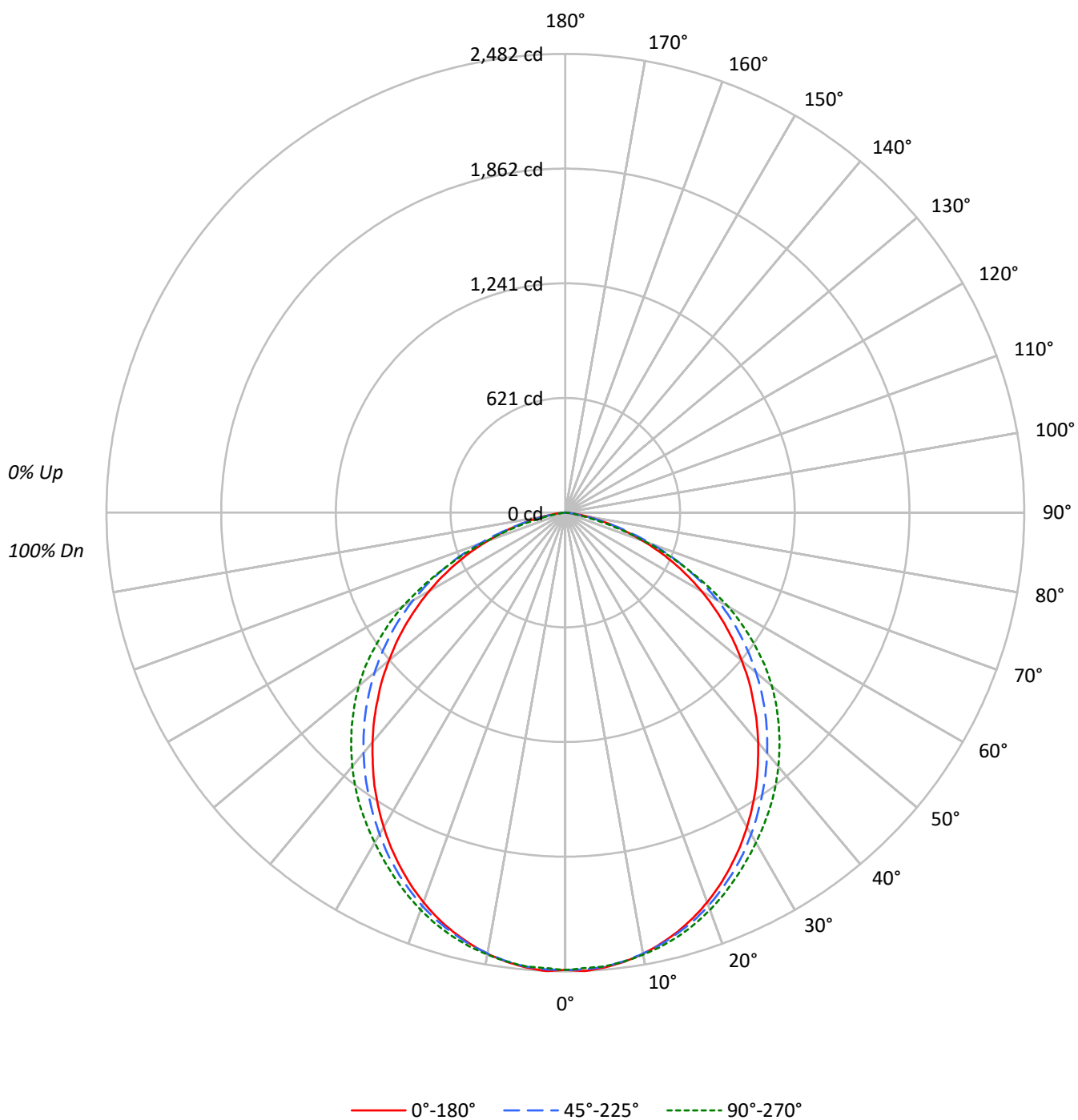
Lumens per Lamp: N/A
Luminaire Lumens: 6271.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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

TEST NUMBER: P1498621

CATALOG NUMBER: MAE-G-2-120-3HI-50-VRDCPH

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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6658	6658	6658
5°	6673	6659	6656
10°	6623	6620	6636
15°	6539	6560	6608
20°	6425	6484	6551
25°	6276	6376	6477
30°	6106	6245	6408
35°	5914	6102	6359
40°	5699	5964	6296
45°	5467	5817	6216
50°	5213	5637	6105
55°	4933	5419	5870
60°	4578	5120	5477
65°	4134	4670	4691
70°	3529	3921	3646
75°	2771	2860	2243
80°	1808	1472	868
85°	868	580	460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6216 cd/sqm

TEST NUMBER: P1498621

CATALOG NUMBER: MAE-G-2-120-3HI-50-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	3.7
10°-20°	663.5	10.6
20°-30°	986.8	15.7
30°-40°	1162.9	18.5
40°-50°	1179.0	18.8
50°-60°	1027.4	16.4
60°-70°	702.6	11.2
70°-80°	282.2	4.5
80°-90°	32.7	0.5
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°	1884.1	30.0
0°-40°	3047.0	48.6
0°-60°	5253.4	83.8
0°-90°	6271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2474	2474	2474	2474	2474	
5°	2470	2455	2465	2462	2464	234
15°	2347	2337	2355	2364	2372	661
25°	2114	2114	2148	2163	2181	973
35°	1800	1808	1858	1903	1936	1125
45°	1436	1456	1529	1597	1633	1109
55°	1052	1074	1155	1228	1251	939
65°	649	678	733	739	737	642
75°	266	284	275	236	216	286
85°	28	25	19	17	15	43
90°	0	0	0	0	0	

TEST NUMBER: P1498621

CATALOG NUMBER: MAE-G-2-120-3HI-50-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2474.2	2474.2	2474.2	2474.2	2474.2
2.5°	2482.2	2465.6	2474.2	2472.5	2466.2
5°	2470.2	2455.3	2465.0	2462.2	2463.9
7.5°	2450.7	2437.1	2447.3	2446.8	2449.6
10°	2423.9	2410.1	2422.8	2425.1	2428.5
12.5°	2388.4	2377.0	2392.4	2397.0	2403.8
15°	2347.2	2336.9	2354.6	2364.4	2371.8
17.5°	2299.1	2290.5	2313.4	2322.6	2332.9
20°	2243.6	2237.4	2264.2	2272.8	2287.7
22.5°	2181.9	2178.5	2206.4	2219.6	2236.8
25°	2113.8	2114.4	2147.5	2163.1	2181.3
27.5°	2042.3	2043.5	2081.3	2102.9	2122.4
30°	1965.1	1968.5	2009.7	2036.6	2062.3
32.5°	1883.2	1890.1	1934.7	1971.4	2000.0
35°	1800.3	1808.3	1857.6	1903.2	1935.8
37.5°	1710.5	1723.7	1779.2	1833.6	1867.2
40°	1622.4	1635.5	1697.9	1757.9	1792.3
42.5°	1531.5	1548.0	1614.4	1681.3	1714.4
45°	1436.5	1455.9	1528.6	1597.2	1633.3
47.5°	1345.5	1362.7	1439.3	1510.9	1548.0
50°	1245.3	1267.1	1346.6	1421.6	1458.3
52.5°	1149.9	1169.9	1251.7	1328.4	1361.5
55°	1051.5	1073.8	1155.1	1227.6	1251.2
57.5°	950.7	977.7	1056.1	1116.7	1139.0
60°	850.7	877.5	951.4	1001.2	1017.7
62.5°	751.1	779.8	844.4	877.5	877.5
65°	649.3	678.5	733.4	739.1	736.8
67.5°	547.5	576.7	618.4	608.1	601.2
70°	448.5	473.7	498.3	479.3	463.4
72.5°	352.4	376.4	380.5	353.0	332.9
75°	266.5	284.4	275.1	236.3	215.7
77.5°	185.9	196.2	176.8	137.3	120.8
80°	116.7	121.3	95.0	66.9	56.0
82.5°	63.0	63.5	41.2	33.8	31.5
85°	28.1	25.2	18.8	16.6	14.9
87.5°	9.7	8.6	6.8	6.3	5.2
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	17.51	19.10	17.88	19.41	19.73	18.50	20.08	18.86	20.39	20.71
	3H	18.92	20.34	19.30	20.67	21.03	19.70	21.12	20.08	21.45	21.81
	4H	19.32	20.65	19.72	21.00	21.38	19.92	21.25	20.32	21.60	21.98
	6H	19.49	20.72	19.90	21.09	21.48	19.93	21.17	20.35	21.53	21.92
	8H	19.51	20.68	19.93	21.07	21.47	19.91	21.09	20.34	21.47	21.87
	12H	19.50	20.62	19.93	21.00	21.43	19.89	21.01	20.32	21.39	21.82
4H	2H	18.18	19.52	18.58	19.87	20.24	18.97	20.31	19.37	20.66	21.03
	3H	19.75	20.86	20.16	21.26	21.66	20.34	21.45	20.75	21.85	22.25
	4H	20.23	21.22	20.66	21.64	22.07	20.62	21.61	21.05	22.02	22.46
	6H	20.47	21.33	20.92	21.77	22.23	20.67	21.53	21.12	21.97	22.43
	8H	20.49	21.30	20.95	21.74	22.21	20.64	21.45	21.11	21.89	22.36
	12H	20.49	21.21	20.97	21.69	22.16	20.62	21.34	21.10	21.82	22.29
8H	4H	20.37	21.18	20.84	21.62	22.09	20.73	21.54	21.20	21.98	22.45
	6H	20.65	21.31	21.15	21.80	22.28	20.79	21.46	21.29	21.95	22.42
	8H	20.69	21.28	21.20	21.79	22.28	20.77	21.36	21.28	21.87	22.36
	12H	20.70	21.23	21.21	21.72	22.28	20.76	21.28	21.27	21.77	22.33
12H	4H	20.36	21.08	20.84	21.55	22.02	20.72	21.44	21.20	21.92	22.39
	6H	20.62	21.21	21.13	21.72	22.21	20.77	21.36	21.28	21.87	22.36
	8H	20.69	21.21	21.19	21.70	22.26	20.77	21.29	21.28	21.79	22.35