

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: P1498450

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498450
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-2-120-2LO-HI-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

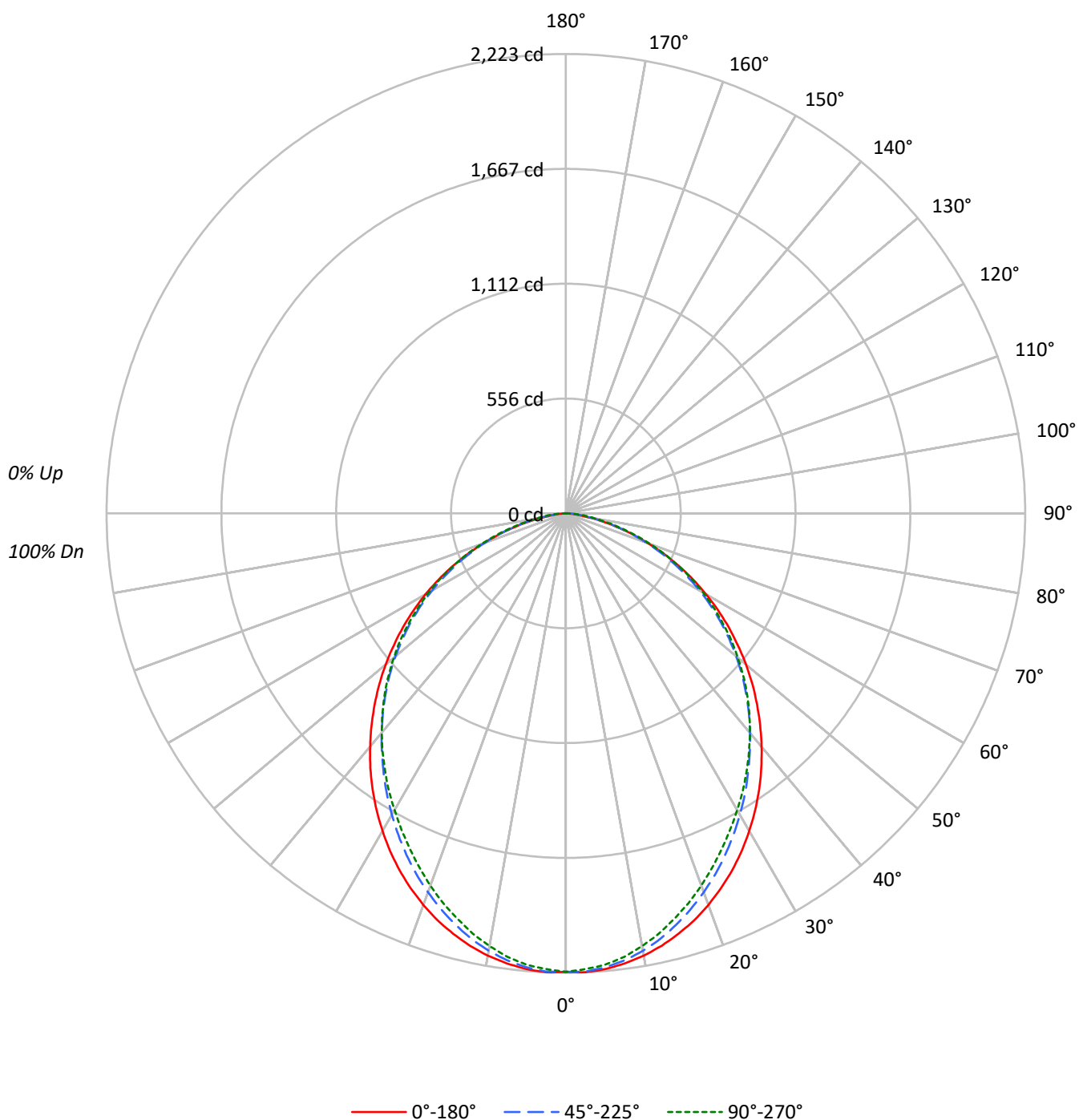
Lumens per Lamp: N/A
Luminaire Lumens: 5330.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5970	5970	5970
5°	5979	5956	5922
10°	5938	5873	5810
15°	5867	5744	5656
20°	5775	5586	5489
25°	5656	5416	5312
30°	5516	5234	5151
35°	5358	5049	5009
40°	5176	4872	4868
45°	4980	4694	4721
50°	4766	4505	4547
55°	4518	4287	4352
60°	4220	4023	4129
65°	3848	3691	3829
70°	3335	3282	3426
75°	2671	2765	2892
80°	1832	2080	2267
85°	969	1519	2019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4980 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.3	3.9
10°-20°	580.8	10.9
20°-30°	844.4	15.8
30°-40°	973.7	18.3
40°-50°	966.5	18.1
50°-60°	829.2	15.6
60°-70°	584.0	11.0
70°-80°	283.5	5.3
80°-90°	59.6	1.1
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°	1633.5	30.6
0°-40°	2607.2	48.9
0°-60°	4402.9	82.6
0°-90°	5330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2219	2219	2219	2219	2219	
5°	2213	2207	2205	2189	2192	210
15°	2106	2090	2062	2030	2030	594
25°	1905	1875	1824	1790	1789	877
35°	1631	1591	1537	1520	1525	1019
45°	1308	1270	1234	1234	1240	1009
55°	963	930	914	922	928	860
65°	604	583	580	594	601	598
75°	257	248	266	275	278	276
85°	31	37	49	60	65	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2218.7	2218.7	2218.7	2218.7	2218.7
2.5°	2222.7	2217.9	2218.7	2206.1	2207.4
5°	2213.3	2206.9	2204.9	2188.7	2192.3
7.5°	2196.4	2188.0	2181.2	2162.0	2164.9
10°	2173.2	2162.0	2149.3	2125.2	2126.3
12.5°	2143.2	2129.4	2109.7	2081.0	2082.3
15°	2106.0	2089.5	2061.8	2030.1	2030.1
17.5°	2064.9	2045.6	2008.8	1974.7	1976.7
20°	2016.6	1994.1	1950.8	1915.5	1916.8
22.5°	1962.7	1936.5	1890.4	1854.4	1853.3
25°	1904.9	1875.2	1824.2	1789.9	1789.0
27.5°	1842.4	1809.1	1755.5	1723.2	1723.6
30°	1775.1	1739.4	1684.4	1656.2	1657.8
32.5°	1704.4	1666.8	1612.2	1589.6	1593.5
35°	1630.9	1590.6	1536.8	1520.2	1524.7
37.5°	1554.0	1514.1	1462.3	1451.6	1456.1
40°	1473.4	1434.3	1386.9	1380.2	1385.7
42.5°	1391.8	1353.3	1311.0	1308.4	1314.3
45°	1308.5	1269.8	1233.5	1234.2	1240.5
47.5°	1225.0	1186.8	1156.1	1159.4	1165.0
50°	1138.4	1102.2	1076.1	1081.7	1086.2
52.5°	1049.4	1015.7	995.5	1002.8	1010.6
55°	962.9	930.1	913.8	922.1	927.7
57.5°	873.4	844.9	831.9	840.9	847.3
60°	784.1	757.2	747.5	759.3	767.2
62.5°	693.9	669.1	663.9	677.1	684.8
65°	604.3	582.6	579.7	593.7	601.3
67.5°	515.1	495.7	498.2	515.1	519.8
70°	423.9	408.0	417.2	431.7	435.5
72.5°	339.0	325.6	339.4	351.8	354.0
75°	256.9	248.2	265.9	274.9	278.2
77.5°	182.3	179.9	195.5	204.4	208.3
80°	118.2	121.8	134.2	144.2	146.3
82.5°	67.4	72.7	84.2	97.9	103.1
85°	31.4	37.1	49.2	60.4	65.4
87.5°	10.6	14.7	20.9	22.8	21.8
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	17.14	18.72	17.50	19.04	19.35	17.08	18.66	17.44	18.98	19.29
	3H	18.62	20.05	19.00	20.37	20.73	18.66	20.09	19.04	20.42	20.78
	4H	19.06	20.40	19.46	20.74	21.12	19.17	20.51	19.57	20.86	21.23
	6H	19.28	20.52	19.69	20.88	21.27	19.47	20.71	19.88	21.08	21.47
	8H	19.31	20.49	19.73	20.88	21.28	19.56	20.74	19.98	21.13	21.53
	12H	19.31	20.44	19.74	20.82	21.25	19.62	20.75	20.05	21.13	21.56
4H	2H	17.66	19.00	18.06	19.35	19.73	17.61	18.95	18.01	19.30	19.68
	3H	19.33	20.44	19.74	20.84	21.24	19.39	20.51	19.80	20.91	21.31
	4H	19.85	20.85	20.28	21.27	21.71	20.00	21.01	20.44	21.42	21.86
	6H	20.15	21.03	20.61	21.47	21.93	20.41	21.28	20.86	21.72	22.18
	8H	20.20	21.02	20.67	21.46	21.93	20.52	21.34	20.99	21.78	22.25
	12H	20.22	20.95	20.70	21.43	21.90	20.62	21.35	21.10	21.82	22.29
8H	4H	20.06	20.88	20.52	21.32	21.79	20.20	21.01	20.66	21.46	21.92
	6H	20.43	21.10	20.92	21.59	22.07	20.68	21.35	21.17	21.84	22.32
	8H	20.51	21.11	21.02	21.62	22.11	20.85	21.45	21.36	21.96	22.45
	12H	20.55	21.09	21.06	21.58	22.14	20.99	21.53	21.50	22.02	22.58
12H	4H	20.07	20.80	20.55	21.28	21.75	20.20	20.93	20.68	21.41	21.88
	6H	20.44	21.05	20.95	21.55	22.04	20.68	21.29	21.20	21.80	22.29
	8H	20.56	21.09	21.07	21.59	22.15	20.89	21.43	21.40	21.92	22.48