

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: P1499290

Luminaire Tested: MAE-G-4-120-2LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499290
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-4-120-2LO-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

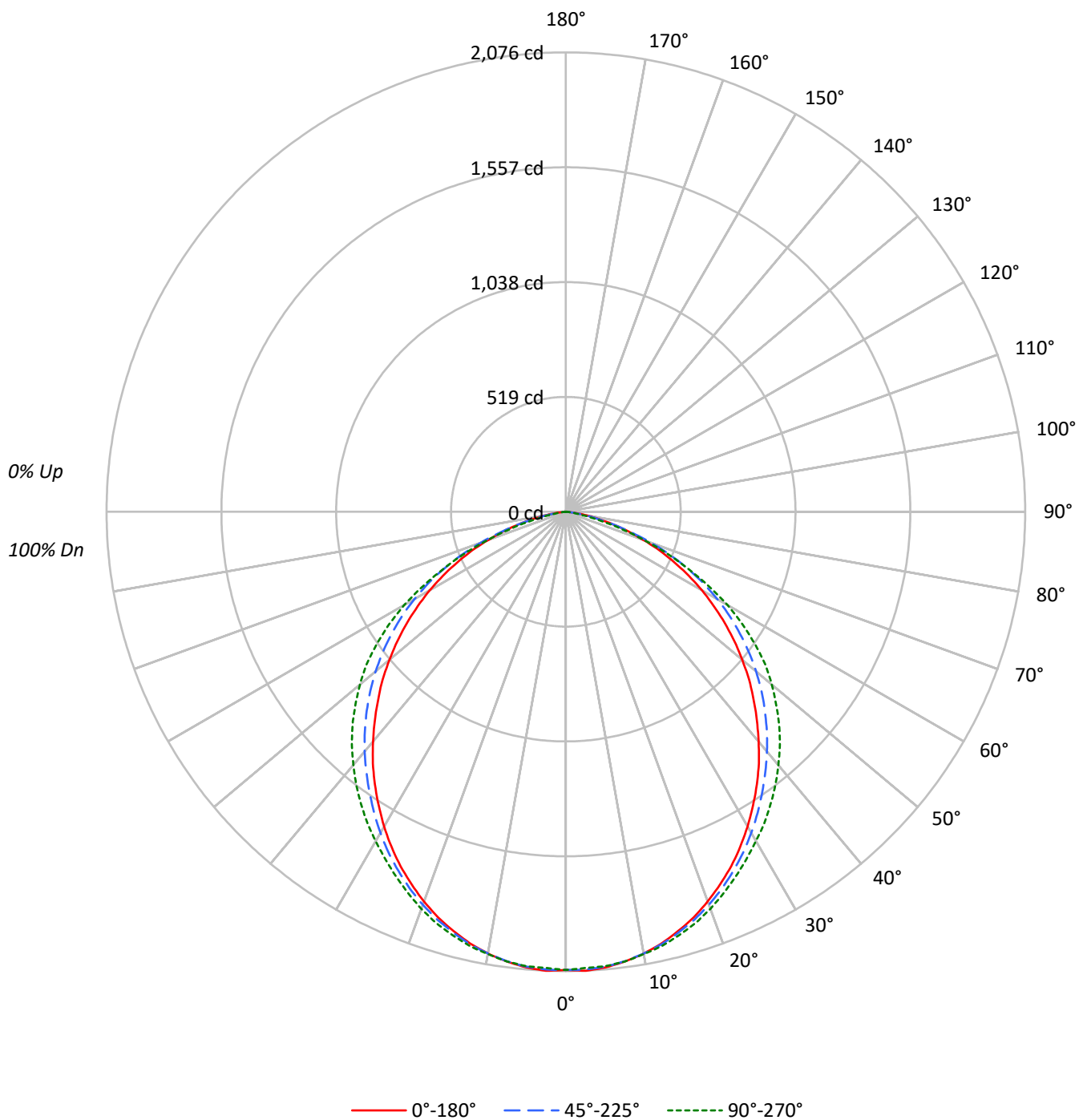
Lumens per Lamp: N/A
Luminaire Lumens: 5227.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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	102	98	107	103	100	97	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	58	69	62	57		67	61	56		65
5	78	65	57	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	45	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2786	2786	2786
5°	2791	2786	2784
10°	2770	2770	2773
15°	2733	2742	2759
20°	2684	2706	2734
25°	2624	2659	2699
30°	2552	2604	2670
35°	2472	2541	2649
40°	2380	2484	2624
45°	2283	2422	2595
50°	2177	2349	2543
55°	2057	2255	2448
60°	1911	2129	2273
65°	1724	1934	1946
70°	1472	1610	1505
75°	1155	1166	939
80°	752	600	360
85°	347	228	185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2595 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	3.7
10°-20°	554.7	10.6
20°-30°	824.0	15.8
30°-40°	970.6	18.6
40°-50°	983.3	18.8
50°-60°	855.9	16.4
60°-70°	583.2	11.2
70°-80°	233.1	4.5
80°-90°	26.7	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°	1574.3	30.1
0°-40°	2544.9	48.7
0°-60°	4384.0	83.9
0°-90°	5227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2071	2071	2071	2071	2071	
5°	2066	2054	2063	2060	2061	196
15°	1962	1953	1969	1976	1981	553
25°	1768	1768	1791	1806	1818	813
35°	1505	1512	1547	1588	1613	940
45°	1200	1214	1273	1332	1364	926
55°	877	896	961	1022	1043	783
65°	541	567	608	608	611	537
75°	222	236	224	193	181	239
85°	22	20	15	13	12	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2070.7	2070.7	2070.7	2070.7	2070.7
2.5°	2076.4	2063.1	2070.7	2069.3	2063.7
5°	2066.5	2054.5	2063.1	2060.3	2060.9
7.5°	2050.3	2039.1	2048.3	2047.5	2049.7
10°	2027.2	2016.0	2027.2	2027.8	2030.0
12.5°	1998.3	1988.5	2001.8	2004.6	2009.6
15°	1961.7	1953.3	1968.7	1975.9	1980.7
17.5°	1922.4	1916.8	1932.2	1941.4	1949.1
20°	1874.5	1871.7	1890.1	1899.1	1909.7
22.5°	1822.5	1821.1	1843.0	1854.2	1864.8
25°	1767.6	1768.4	1790.9	1805.7	1817.7
27.5°	1707.2	1708.6	1736.1	1753.6	1768.4
30°	1642.5	1646.1	1676.2	1700.2	1718.5
32.5°	1574.3	1580.7	1613.0	1646.1	1669.3
35°	1504.7	1511.8	1546.9	1587.7	1613.0
37.5°	1433.0	1440.8	1481.5	1529.4	1556.1
40°	1355.0	1366.8	1414.1	1466.8	1494.1
42.5°	1278.2	1291.6	1344.4	1402.1	1431.6
45°	1199.6	1214.4	1272.6	1332.5	1364.0
47.5°	1123.6	1136.2	1198.8	1261.5	1289.6
50°	1040.0	1056.8	1122.2	1184.8	1215.0
52.5°	959.8	976.0	1042.8	1106.7	1137.8
55°	876.8	895.8	961.2	1021.7	1043.4
57.5°	793.2	815.0	878.2	928.1	947.1
60°	710.2	732.0	791.0	830.4	844.5
62.5°	626.5	649.0	701.1	725.0	727.8
65°	541.4	566.8	607.5	608.3	611.1
67.5°	460.6	481.6	511.1	502.7	498.6
70°	374.1	397.2	409.2	392.4	382.5
72.5°	297.5	314.2	312.2	287.5	275.7
75°	222.2	235.6	224.3	192.7	180.7
77.5°	154.0	165.2	142.7	113.1	101.3
80°	97.0	101.9	77.4	54.9	46.5
82.5°	52.1	51.3	33.1	27.4	25.3
85°	22.5	20.4	14.8	13.4	12.0
87.5°	7.8	7.0	5.6	5.0	4.2
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	14.48	16.06	14.84	16.37	16.69	15.44	17.02	15.80	17.33	17.65
	3H	15.90	17.32	16.27	17.64	18.01	16.63	18.05	17.00	18.37	18.73
	4H	16.29	17.62	16.69	17.97	18.35	16.84	18.17	17.24	18.52	18.90
	6H	16.46	17.69	16.88	18.06	18.45	16.86	18.09	17.27	18.46	18.85
	8H	16.48	17.65	16.90	18.04	18.44	16.84	18.01	17.26	18.40	18.80
	12H	16.47	17.59	16.90	17.97	18.40	16.81	17.93	17.24	18.31	18.74
4H	2H	15.14	16.47	15.54	16.82	17.20	15.91	17.24	16.31	17.59	17.97
	3H	16.72	17.82	17.13	18.22	18.62	17.26	18.36	17.67	18.76	19.16
	4H	17.19	18.18	17.62	18.60	19.03	17.53	18.52	17.96	18.94	19.37
	6H	17.43	18.29	17.89	18.73	19.19	17.58	18.44	18.04	18.88	19.34
	8H	17.45	18.26	17.92	18.70	19.17	17.56	18.36	18.02	18.80	19.27
	12H	17.45	18.17	17.93	18.65	19.12	17.53	18.25	18.02	18.73	19.20
8H	4H	17.33	18.13	17.79	18.57	19.04	17.64	18.45	18.11	18.89	19.36
	6H	17.60	18.26	18.10	18.75	19.23	17.70	18.36	18.20	18.85	19.33
	8H	17.64	18.23	18.15	18.74	19.23	17.68	18.27	18.19	18.78	19.27
	12H	17.65	18.17	18.16	18.67	19.23	17.66	18.18	18.17	18.68	19.24
12H	4H	17.31	18.03	17.79	18.50	18.97	17.63	18.35	18.11	18.83	19.30
	6H	17.57	18.16	18.08	18.67	19.16	17.68	18.27	18.19	18.78	19.27
	8H	17.64	18.16	18.14	18.65	19.21	17.68	18.20	18.19	18.69	19.26