

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: P1499287

Luminaire Tested: MAE-G-4-120-2LO-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499287
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-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

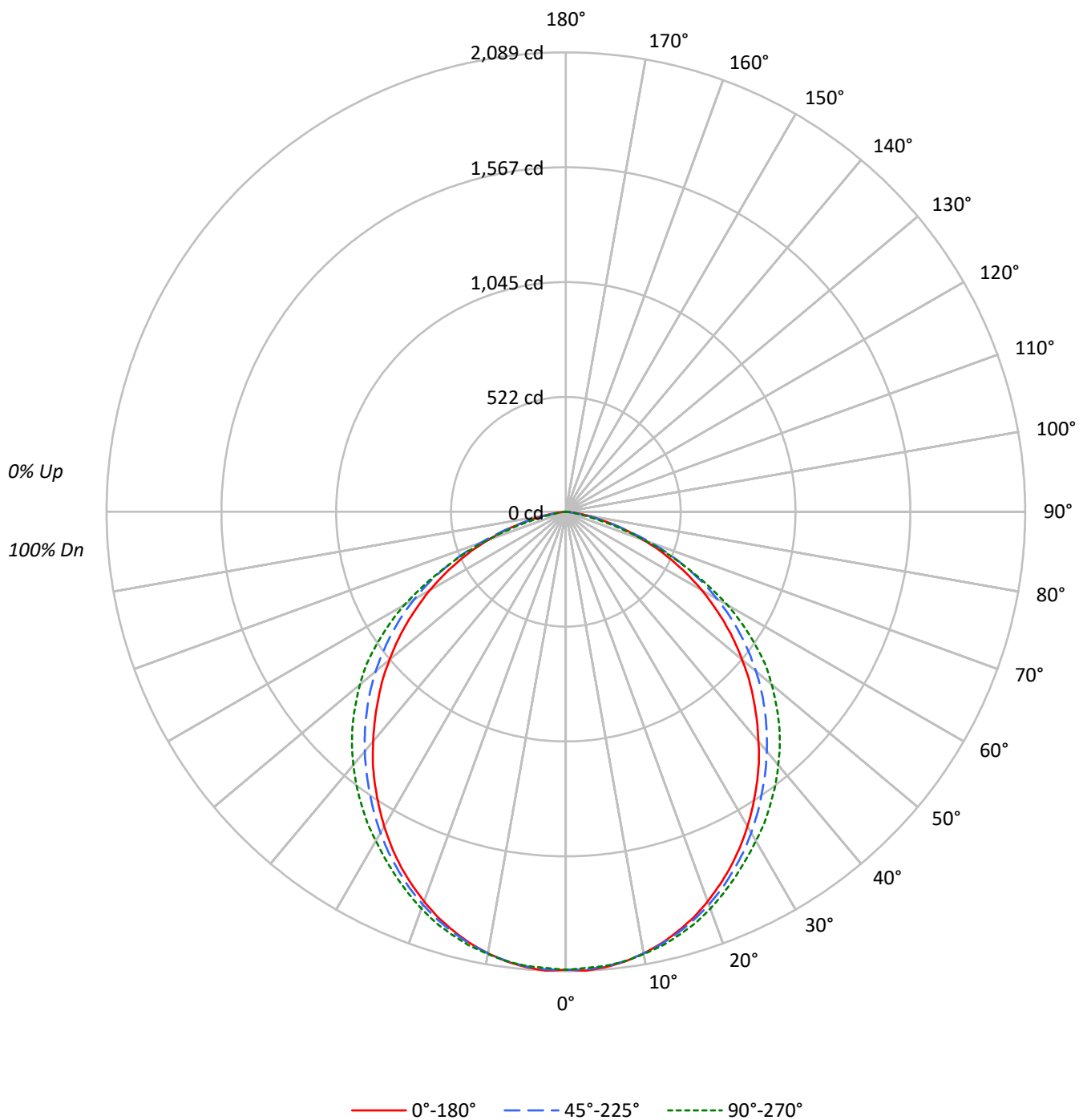
Lumens per Lamp: N/A
Luminaire Lumens: 5258.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53		
5	78	65	57	50	76	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	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2803	2803	2803
5°	2808	2803	2800
10°	2786	2786	2790
15°	2749	2759	2775
20°	2700	2722	2751
25°	2640	2675	2714
30°	2567	2620	2686
35°	2486	2556	2665
40°	2394	2498	2640
45°	2296	2436	2611
50°	2190	2363	2558
55°	2069	2268	2462
60°	1922	2141	2286
65°	1734	1946	1957
70°	1480	1619	1513
75°	1162	1173	945
80°	756	604	362
85°	350	230	185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	3.7
10°-20°	558.0	10.6
20°-30°	828.9	15.8
30°-40°	976.3	18.6
40°-50°	989.1	18.8
50°-60°	860.9	16.4
60°-70°	586.6	11.2
70°-80°	234.5	4.5
80°-90°	26.8	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°	1583.6	30.1
0°-40°	2560.0	48.7
0°-60°	4410.0	83.9
0°-90°	5258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2083	2083	2083	2083	2083	
5°	2079	2067	2075	2072	2073	197
15°	1973	1965	1980	1988	1992	556
25°	1778	1779	1802	1816	1828	818
35°	1514	1521	1556	1597	1623	946
45°	1207	1222	1280	1340	1372	931
55°	882	901	967	1028	1050	788
65°	545	570	611	612	615	540
75°	224	237	226	194	182	241
85°	23	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°	2083.0	2083.0	2083.0	2083.0	2083.0
2.5°	2088.7	2075.3	2083.0	2081.5	2075.9
5°	2078.7	2066.7	2075.3	2072.5	2073.1
7.5°	2062.5	2051.2	2060.4	2059.7	2061.8
10°	2039.2	2027.9	2039.2	2039.8	2042.0
12.5°	2010.1	2000.3	2013.7	2016.5	2021.5
15°	1973.4	1964.9	1980.4	1987.6	1992.4
17.5°	1933.8	1928.2	1943.7	1952.9	1960.7
20°	1885.7	1882.8	1901.3	1910.4	1921.0
22.5°	1833.3	1831.9	1853.9	1865.2	1875.8
25°	1778.1	1778.9	1801.6	1816.4	1828.4
27.5°	1717.3	1718.7	1746.4	1764.0	1778.9
30°	1652.3	1655.9	1686.2	1710.3	1728.7
32.5°	1583.6	1590.0	1622.6	1655.9	1679.2
35°	1513.6	1520.8	1556.1	1597.1	1622.6
37.5°	1441.5	1449.3	1490.3	1538.5	1565.3
40°	1363.0	1374.9	1422.5	1475.5	1503.0
42.5°	1285.8	1299.3	1352.4	1410.4	1440.1
45°	1206.7	1221.6	1280.2	1340.4	1372.1
47.5°	1130.3	1142.9	1205.9	1268.9	1297.2
50°	1046.2	1063.1	1128.9	1191.9	1222.2
52.5°	965.5	981.8	1049.0	1113.2	1144.5
55°	882.0	901.1	966.9	1027.7	1049.6
57.5°	797.9	819.8	883.4	933.6	952.7
60°	714.4	736.3	795.7	835.3	849.5
62.5°	630.2	652.8	705.2	729.3	732.1
65°	544.7	570.1	611.1	611.9	614.7
67.5°	463.4	484.5	514.2	505.7	501.5
70°	376.3	399.6	411.6	394.7	384.7
72.5°	299.2	316.1	314.1	289.2	277.3
75°	223.6	237.0	225.6	193.9	181.8
77.5°	154.9	166.2	143.5	113.8	101.9
80°	97.6	102.6	77.9	55.2	46.7
82.5°	52.4	51.6	33.3	27.5	25.5
85°	22.7	20.5	14.9	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	14.50	16.08	14.86	16.39	16.71	15.46	17.04	15.82	17.35	17.67
	3H	15.92	17.34	16.29	17.66	18.03	16.65	18.07	17.02	18.39	18.76
	4H	16.31	17.64	16.71	17.99	18.37	16.86	18.19	17.26	18.54	18.92
	6H	16.48	17.72	16.90	18.08	18.47	16.88	18.11	17.29	18.48	18.87
	8H	16.50	17.67	16.92	18.06	18.46	16.86	18.03	17.28	18.42	18.82
	12H	16.49	17.61	16.92	17.99	18.42	16.83	17.95	17.26	18.34	18.76
4H	2H	15.16	16.49	15.56	16.84	17.22	15.93	17.26	16.33	17.61	17.99
	3H	16.74	17.84	17.15	18.24	18.64	17.28	18.38	17.69	18.78	19.18
	4H	17.21	18.20	17.64	18.62	19.06	17.55	18.54	17.98	18.96	19.39
	6H	17.45	18.31	17.91	18.75	19.21	17.60	18.46	18.06	18.90	19.36
	8H	17.47	18.28	17.94	18.72	19.19	17.58	18.38	18.04	18.82	19.29
	12H	17.47	18.19	17.95	18.67	19.14	17.55	18.27	18.04	18.75	19.22
8H	4H	17.35	18.15	17.81	18.59	19.06	17.66	18.47	18.13	18.91	19.38
	6H	17.62	18.28	18.12	18.77	19.25	17.72	18.38	18.22	18.87	19.35
	8H	17.66	18.25	18.17	18.76	19.25	17.70	18.29	18.21	18.80	19.29
	12H	17.67	18.20	18.18	18.69	19.25	17.68	18.21	18.19	18.70	19.26
12H	4H	17.33	18.05	17.81	18.52	18.99	17.65	18.37	18.13	18.85	19.32
	6H	17.59	18.19	18.11	18.69	19.18	17.70	18.29	18.21	18.80	19.29
	8H	17.66	18.18	18.17	18.67	19.23	17.70	18.22	18.21	18.71	19.28