

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: P1499578

Luminaire Tested: MAE-G-4-120-3LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499578
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-4-120-3LO-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

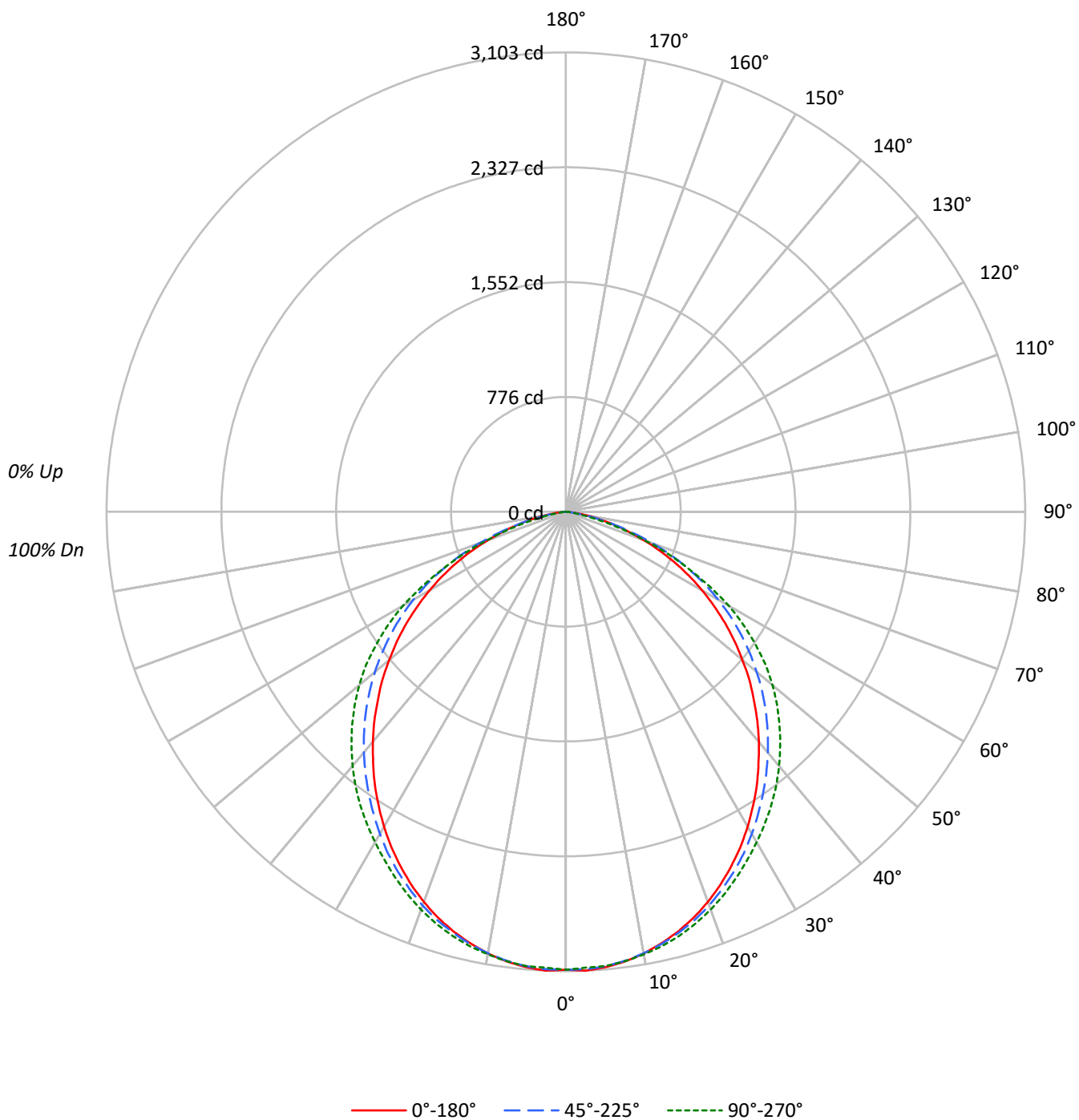
Lumens per Lamp: N/A
Luminaire Lumens: 7839.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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	96	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	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	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	44	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	36	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°	4161	4161	4161
5°	4170	4162	4160
10°	4140	4138	4148
15°	4087	4100	4130
20°	4016	4053	4095
25°	3923	3985	4048
30°	3816	3903	4005
35°	3696	3814	3975
40°	3562	3728	3935
45°	3417	3636	3885
50°	3258	3524	3816
55°	3083	3387	3669
60°	2862	3200	3423
65°	2584	2918	2932
70°	2205	2450	2279
75°	1732	1788	1402
80°	1130	920	542
85°	542	364	289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3885 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.2	3.7
10°-20°	829.4	10.6
20°-30°	1233.6	15.7
30°-40°	1453.6	18.5
40°-50°	1473.8	18.8
50°-60°	1284.3	16.4
60°-70°	878.3	11.2
70°-80°	352.8	4.5
80°-90°	40.9	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°	2355.2	30.0
0°-40°	3808.8	48.6
0°-60°	6567.0	83.8
0°-90°	7839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3093	3093	3093	3093	3093	
5°	3088	3069	3081	3078	3080	293
15°	2934	2921	2943	2956	2965	827
25°	2642	2643	2684	2704	2727	1216
35°	2250	2260	2322	2379	2420	1406
45°	1796	1820	1911	1997	2042	1386
55°	1314	1342	1444	1535	1564	1173
65°	812	848	917	924	921	803
75°	333	356	344	295	270	358
85°	35	32	24	21	19	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3092.9	3092.9	3092.9	3092.9	3092.9
2.5°	3102.9	3082.2	3092.9	3090.7	3082.8
5°	3087.8	3069.2	3081.4	3077.9	3079.9
7.5°	3063.5	3046.4	3059.2	3058.6	3062.1
10°	3030.0	3012.8	3028.6	3031.4	3035.7
12.5°	2985.6	2971.4	2990.6	2996.3	3004.9
15°	2934.1	2921.3	2943.4	2955.5	2964.9
17.5°	2874.0	2863.2	2891.9	2903.4	2916.2
20°	2804.6	2796.9	2830.4	2841.1	2859.8
22.5°	2727.5	2723.2	2758.1	2774.6	2796.1
25°	2642.3	2643.1	2684.5	2703.9	2726.7
27.5°	2553.0	2554.4	2601.7	2628.7	2653.0
30°	2456.4	2460.7	2512.2	2545.9	2577.9
32.5°	2354.1	2362.7	2418.5	2464.3	2500.0
35°	2250.4	2260.4	2322.0	2379.1	2419.9
37.5°	2138.2	2154.7	2224.1	2292.0	2334.1
40°	2028.1	2044.5	2122.4	2197.5	2240.5
42.5°	1914.4	1935.1	2018.1	2101.7	2143.1
45°	1795.7	1819.9	1910.8	1996.6	2041.7
47.5°	1681.9	1703.4	1799.2	1888.6	1935.1
50°	1556.7	1583.9	1683.3	1777.1	1822.9
52.5°	1437.4	1462.4	1564.6	1660.6	1702.0
55°	1314.4	1342.2	1443.9	1534.6	1564.0
57.5°	1188.4	1222.1	1320.1	1396.0	1423.8
60°	1063.4	1096.9	1189.2	1251.5	1272.2
62.5°	938.9	974.8	1055.5	1096.9	1096.9
65°	811.6	848.1	916.7	923.9	921.0
67.5°	684.4	720.9	773.1	760.1	751.6
70°	560.6	592.1	622.9	599.2	579.3
72.5°	440.5	470.5	475.6	441.3	416.2
75°	333.2	355.5	343.9	295.4	269.6
77.5°	232.3	245.3	221.0	171.7	150.9
80°	145.9	151.6	118.7	83.6	70.0
82.5°	78.7	79.3	51.5	42.2	39.4
85°	35.1	31.5	23.6	20.7	18.7
87.5°	12.2	10.7	8.5	7.9	6.5
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	15.88	17.46	16.25	17.78	18.09	16.86	18.45	17.23	18.76	19.08
	3H	17.29	18.71	17.67	19.04	19.40	18.07	19.49	18.45	19.82	20.18
	4H	17.68	19.02	18.08	19.37	19.74	18.28	19.62	18.68	19.97	20.34
	6H	17.86	19.09	18.27	19.46	19.85	18.30	19.53	18.71	19.90	20.29
	8H	17.87	19.05	18.30	19.44	19.84	18.28	19.45	18.70	19.84	20.24
	12H	17.86	18.99	18.29	19.37	19.80	18.25	19.38	18.68	19.76	20.19
4H	2H	16.55	17.88	16.95	18.23	18.61	17.34	18.68	17.74	19.02	19.40
	3H	18.12	19.23	18.53	19.62	20.02	18.71	19.82	19.12	20.22	20.62
	4H	18.60	19.59	19.03	20.00	20.44	18.98	19.98	19.42	20.39	20.83
	6H	18.84	19.70	19.29	20.14	20.60	19.03	19.90	19.49	20.34	20.80
	8H	18.86	19.66	19.32	20.11	20.57	19.01	19.81	19.47	20.26	20.72
	12H	18.86	19.58	19.34	20.06	20.53	18.99	19.71	19.47	20.19	20.66
8H	4H	18.74	19.55	19.20	19.99	20.46	19.10	19.91	19.56	20.35	20.82
	6H	19.02	19.68	19.51	20.17	20.65	19.16	19.82	19.66	20.31	20.79
	8H	19.06	19.65	19.57	20.16	20.64	19.14	19.73	19.65	20.24	20.73
	12H	19.07	19.59	19.58	20.08	20.65	19.12	19.65	19.63	20.14	20.70
12H	4H	18.72	19.44	19.20	19.92	20.39	19.09	19.81	19.57	20.29	20.76
	6H	18.99	19.58	19.50	20.09	20.58	19.14	19.73	19.65	20.24	20.73
	8H	19.05	19.57	19.56	20.07	20.63	19.14	19.66	19.65	20.15	20.72