

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: P1498870

Luminaire Tested: MAE-G-2-120-3STD-STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498870
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-2-120-3STD-STD-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

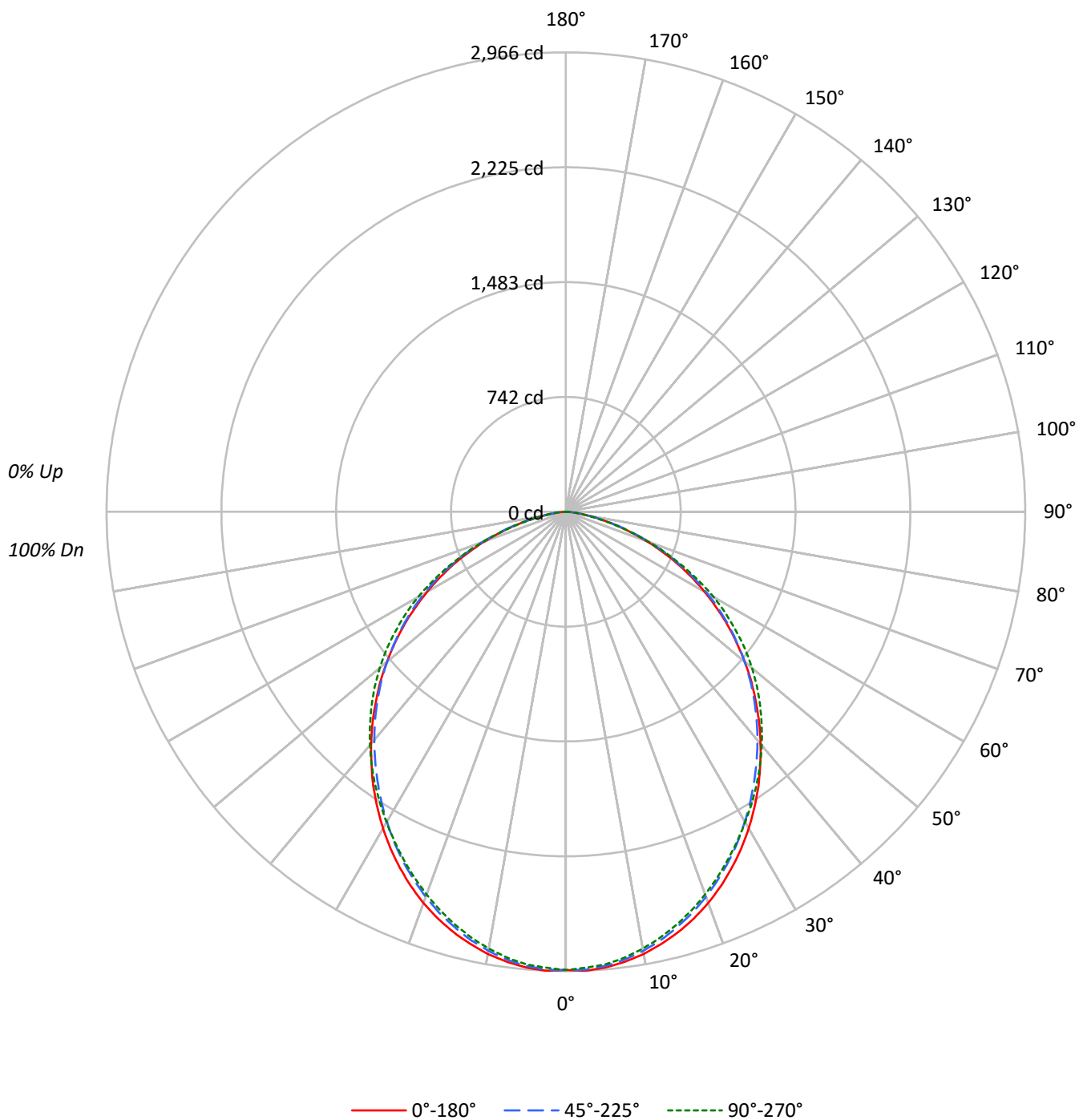
Lumens per Lamp: N/A
Luminaire Lumens: 7272.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.1
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	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	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7962	7962	7962
5°	7977	7951	7923
10°	7921	7866	7825
15°	7826	7736	7690
20°	7698	7576	7530
25°	7530	7391	7356
30°	7337	7181	7194
35°	7119	6967	7057
40°	6872	6759	6913
45°	6604	6547	6752
50°	6311	6308	6565
55°	5980	6031	6295
60°	5571	5677	5937
65°	5062	5201	5321
70°	4362	4526	4503
75°	3467	3606	3389
80°	2335	2383	2236
85°	1201	1510	1849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6752 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	3.8
10°-20°	782.3	10.8
20°-30°	1148.3	15.8
30°-40°	1336.2	18.4
40°-50°	1338.4	18.4
50°-60°	1156.3	15.9
60°-70°	805.2	11.1
70°-80°	363.1	5.0
80°-90°	63.7	0.9
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°	2209.2	30.4
0°-40°	3545.3	48.8
0°-60°	6040.0	83.1
0°-90°	7272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2959	2959	2959	2959	2959	
5°	2953	2940	2943	2929	2933	280
15°	2809	2791	2777	2756	2760	792
25°	2536	2512	2489	2468	2478	1168
35°	2167	2138	2121	2128	2148	1354
45°	1735	1714	1720	1753	1774	1339
55°	1275	1259	1286	1327	1342	1138
65°	795	791	817	832	836	786
75°	334	336	347	335	326	358
85°	39	42	49	57	60	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2958.9	2958.9	2958.9	2958.9	2958.9
2.5°	2966.2	2954.3	2958.9	2947.9	2946.1
5°	2952.9	2940.5	2943.4	2929.2	2933.2
7.5°	2930.0	2916.7	2915.9	2900.3	2904.1
10°	2899.0	2883.2	2878.8	2861.1	2863.8
12.5°	2857.6	2841.2	2832.6	2812.1	2816.7
15°	2809.0	2790.8	2776.7	2756.3	2760.3
17.5°	2752.6	2732.4	2715.4	2691.7	2698.5
20°	2688.1	2666.1	2645.7	2620.7	2629.6
22.5°	2615.6	2592.5	2569.2	2546.6	2555.3
25°	2535.9	2512.2	2489.2	2468.3	2477.5
27.5°	2452.0	2425.6	2402.2	2386.7	2396.9
30°	2361.3	2333.9	2311.0	2300.6	2315.3
32.5°	2265.5	2238.1	2217.5	2215.9	2232.9
35°	2167.0	2138.2	2120.9	2128.3	2148.2
37.5°	2061.2	2036.6	2023.7	2040.1	2060.2
40°	1956.2	1930.7	1924.2	1946.4	1967.8
42.5°	1847.7	1824.9	1823.5	1852.6	1872.3
45°	1735.3	1714.0	1720.3	1752.7	1774.3
47.5°	1624.8	1603.0	1615.5	1651.0	1674.4
50°	1507.5	1489.5	1506.7	1546.9	1568.2
52.5°	1390.7	1373.5	1396.9	1439.3	1460.0
55°	1274.7	1258.9	1285.5	1326.9	1341.7
57.5°	1154.6	1144.8	1172.6	1209.1	1224.7
60°	1035.2	1026.5	1054.9	1088.9	1103.2
62.5°	915.5	909.7	937.1	965.0	970.0
65°	795.0	791.1	816.8	832.4	835.6
67.5°	673.2	672.8	696.7	705.3	705.3
70°	554.4	552.7	575.2	578.2	572.3
72.5°	438.9	440.8	455.9	453.6	443.8
75°	333.5	335.5	346.8	335.2	326.0
77.5°	235.4	237.4	243.2	230.2	224.7
80°	150.7	155.3	153.8	148.1	144.3
82.5°	84.4	89.3	87.8	95.0	98.2
85°	38.9	42.1	48.9	56.6	59.9
87.5°	13.2	16.0	20.1	21.5	20.1
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	18.14	19.72	18.50	20.04	20.35	18.53	20.11	18.89	20.42	20.74
	3H	19.59	21.01	19.97	21.34	21.70	19.95	21.37	20.32	21.70	22.06
	4H	20.01	21.35	20.41	21.69	22.07	20.32	21.66	20.72	22.00	22.38
	6H	20.21	21.45	20.62	21.81	22.20	20.48	21.72	20.89	22.08	22.47
	8H	20.23	21.41	20.66	21.80	22.20	20.51	21.69	20.93	22.07	22.47
	12H	20.23	21.36	20.66	21.74	22.17	20.52	21.65	20.95	22.03	22.46
4H	2H	18.72	20.06	19.12	20.41	20.79	19.04	20.37	19.44	20.72	21.10
	3H	20.35	21.46	20.76	21.86	22.26	20.64	21.75	21.05	22.15	22.55
	4H	20.85	21.85	21.28	22.27	22.70	21.10	22.10	21.53	22.51	22.95
	6H	21.13	22.00	21.58	22.44	22.90	21.33	22.20	21.79	22.64	23.10
	8H	21.17	21.98	21.63	22.42	22.89	21.38	22.19	21.84	22.63	23.10
	12H	21.18	21.91	21.66	22.38	22.85	21.41	22.13	21.89	22.61	23.08
8H	4H	21.04	21.85	21.50	22.29	22.76	21.26	22.07	21.72	22.52	22.98
	6H	21.36	22.03	21.86	22.52	23.00	21.54	22.21	22.04	22.70	23.18
	8H	21.43	22.03	21.94	22.54	23.02	21.61	22.21	22.13	22.72	23.21
	12H	21.46	21.99	21.97	22.48	23.05	21.68	22.21	22.19	22.70	23.26
12H	4H	21.03	21.76	21.51	22.24	22.71	21.26	21.98	21.74	22.46	22.93
	6H	21.36	21.96	21.87	22.47	22.95	21.53	22.13	22.05	22.64	23.13
	8H	21.46	21.99	21.96	22.48	23.04	21.64	22.17	22.15	22.66	23.22