

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: P1498840

Luminaire Tested: MAE-G-2-120-3STD-LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498840
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-LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

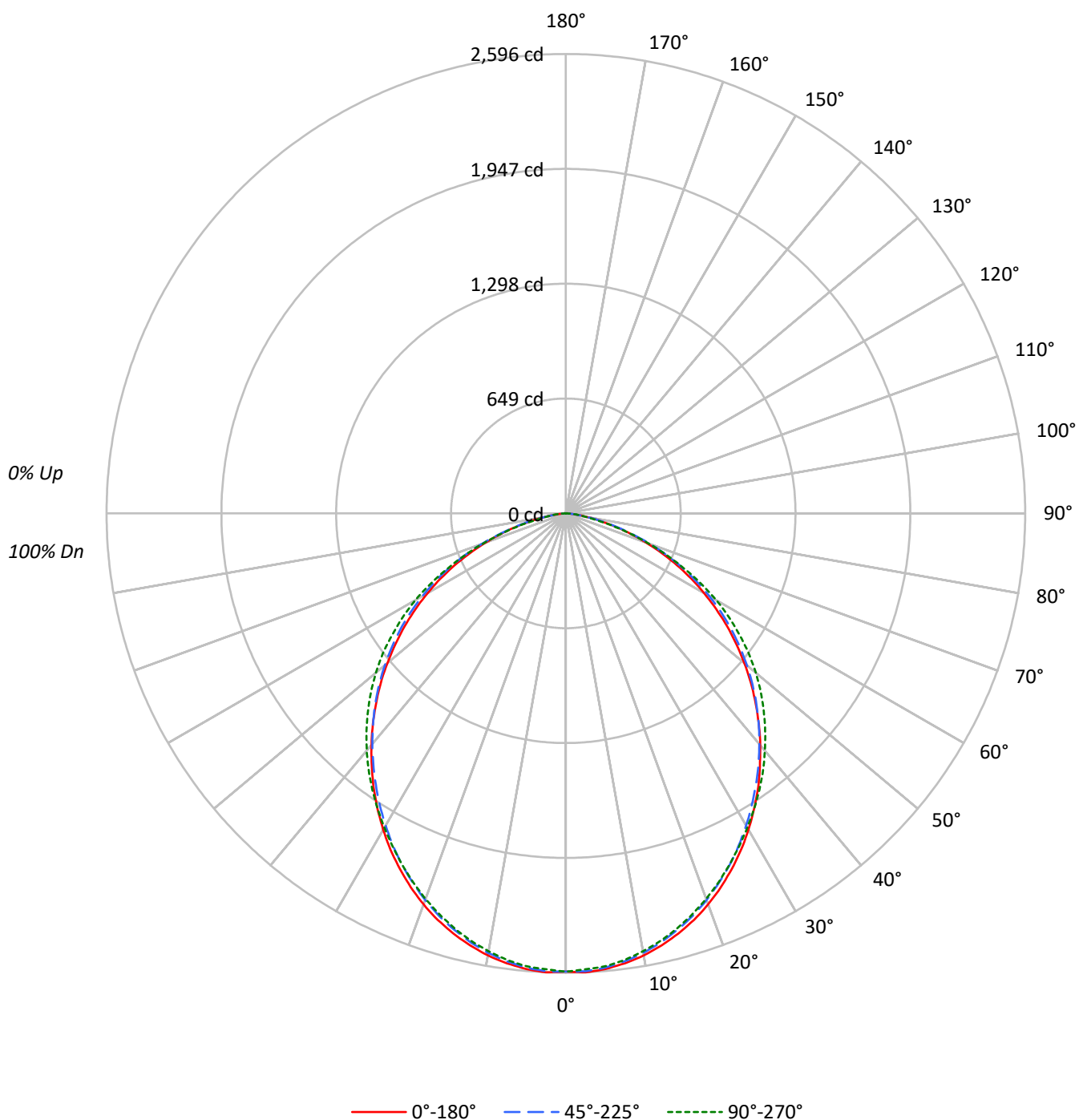
Lumens per Lamp: N/A
Luminaire Lumens: 6401.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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	93	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°	6968	6968	6968
5°	6981	6960	6940
10°	6932	6893	6866
15°	6847	6788	6764
20°	6734	6659	6640
25°	6586	6506	6501
30°	6415	6331	6372
35°	6223	6151	6265
40°	6004	5976	6150
45°	5769	5796	6020
50°	5511	5591	5865
55°	5221	5351	5627
60°	4860	5041	5295
65°	4411	4614	4704
70°	3794	3987	3917
75°	3009	3125	2852
80°	2018	1984	1762
85°	1025	1189	1405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6020 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	3.8
10°-20°	686.5	10.7
20°-30°	1010.1	15.8
30°-40°	1178.2	18.4
40°-50°	1182.9	18.5
50°-60°	1023.6	16.0
60°-70°	710.3	11.1
70°-80°	313.6	4.9
80°-90°	51.8	0.8
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°	1940.5	30.3
0°-40°	3118.7	48.7
0°-60°	5325.3	83.2
0°-90°	6401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2584	2573	2576	2566	2569	245
15°	2458	2443	2436	2424	2428	693
25°	2218	2201	2191	2179	2189	1021
35°	1894	1875	1872	1887	1907	1183
45°	1516	1504	1523	1559	1582	1170
55°	1113	1106	1140	1184	1199	993
65°	693	696	725	737	739	685
75°	289	294	301	285	274	311
85°	33	35	38	44	46	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2589.5	2589.5	2589.5	2589.5	2589.5
2.5°	2596.2	2584.5	2589.5	2581.3	2578.7
5°	2584.4	2572.7	2576.5	2566.0	2569.2
7.5°	2564.4	2552.2	2553.6	2542.5	2545.6
10°	2536.9	2523.1	2522.5	2510.2	2512.8
12.5°	2500.6	2486.7	2483.5	2469.9	2474.4
15°	2457.9	2443.0	2436.4	2423.7	2428.1
17.5°	2408.5	2392.4	2384.6	2369.6	2376.5
20°	2351.6	2334.8	2325.5	2309.3	2318.6
22.5°	2288.0	2270.8	2259.7	2246.1	2255.7
25°	2218.0	2201.3	2191.2	2179.4	2189.4
27.5°	2144.3	2125.7	2116.4	2109.6	2120.6
30°	2064.6	2045.8	2037.4	2035.3	2050.7
32.5°	1980.5	1962.3	1956.2	1962.2	1979.9
35°	1894.2	1875.2	1872.4	1886.6	1907.0
37.5°	1801.3	1786.4	1787.9	1810.1	1831.0
40°	1709.3	1693.7	1701.2	1728.7	1750.6
42.5°	1614.3	1601.3	1613.2	1646.9	1667.5
45°	1515.9	1504.4	1523.0	1559.4	1581.8
47.5°	1419.4	1407.3	1430.9	1470.1	1494.0
50°	1316.3	1307.7	1335.4	1378.6	1400.9
52.5°	1214.5	1206.1	1238.7	1283.9	1305.0
55°	1112.8	1105.8	1140.5	1184.1	1199.3
57.5°	1007.6	1005.8	1040.9	1078.6	1094.1
60°	903.0	902.1	936.7	970.5	983.9
62.5°	798.3	799.8	831.9	858.2	861.8
65°	692.7	695.6	724.7	736.8	738.7
67.5°	586.1	591.6	616.8	620.8	619.5
70°	482.2	485.9	506.8	505.2	497.9
72.5°	381.2	387.3	398.8	391.8	381.0
75°	289.4	294.4	300.6	284.8	274.3
77.5°	203.9	207.3	207.6	190.8	183.6
80°	130.2	134.3	128.0	118.6	113.7
82.5°	72.4	76.0	70.6	74.3	76.1
85°	33.2	34.9	38.5	43.6	45.5
87.5°	11.4	13.1	15.6	16.5	15.3
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	17.68	19.26	18.04	19.57	19.89	18.18	19.76	18.54	20.08	20.39
	3H	19.12	20.54	19.49	20.87	21.23	19.55	20.98	19.93	21.30	21.66
	4H	19.53	20.87	19.93	21.22	21.59	19.89	21.23	20.29	21.58	21.96
	6H	19.73	20.96	20.14	21.33	21.72	20.02	21.26	20.43	21.62	22.01
	8H	19.75	20.93	20.18	21.32	21.72	20.04	21.21	20.46	21.60	22.00
	12H	19.75	20.87	20.18	21.26	21.69	20.04	21.17	20.47	21.55	21.98
4H	2H	18.28	19.61	18.67	19.96	20.34	18.68	20.02	19.08	20.37	20.74
	3H	19.89	21.00	20.30	21.40	21.80	20.24	21.35	20.65	21.75	22.15
	4H	20.39	21.39	20.82	21.80	22.24	20.66	21.66	21.09	22.07	22.51
	6H	20.66	21.52	21.11	21.97	22.42	20.85	21.72	21.30	22.16	22.62
	8H	20.69	21.50	21.16	21.95	22.41	20.88	21.69	21.34	22.13	22.60
	12H	20.70	21.43	21.18	21.90	22.37	20.90	21.62	21.38	22.10	22.57
8H	4H	20.56	21.37	21.03	21.82	22.28	20.81	21.62	21.27	22.07	22.53
	6H	20.88	21.55	21.38	22.04	22.52	21.04	21.71	21.54	22.20	22.68
	8H	20.94	21.54	21.45	22.05	22.54	21.09	21.69	21.60	22.20	22.69
	12H	20.97	21.50	21.48	21.99	22.55	21.14	21.66	21.65	22.16	22.72
12H	4H	20.56	21.28	21.04	21.76	22.23	20.81	21.53	21.29	22.01	22.48
	6H	20.87	21.47	21.38	21.98	22.47	21.03	21.63	21.54	22.14	22.63
	8H	20.96	21.49	21.47	21.98	22.55	21.11	21.64	21.62	22.13	22.70