

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: P1498834

Luminaire Tested: MAE-G-2-120-3STD-HI-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498834
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-HI-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

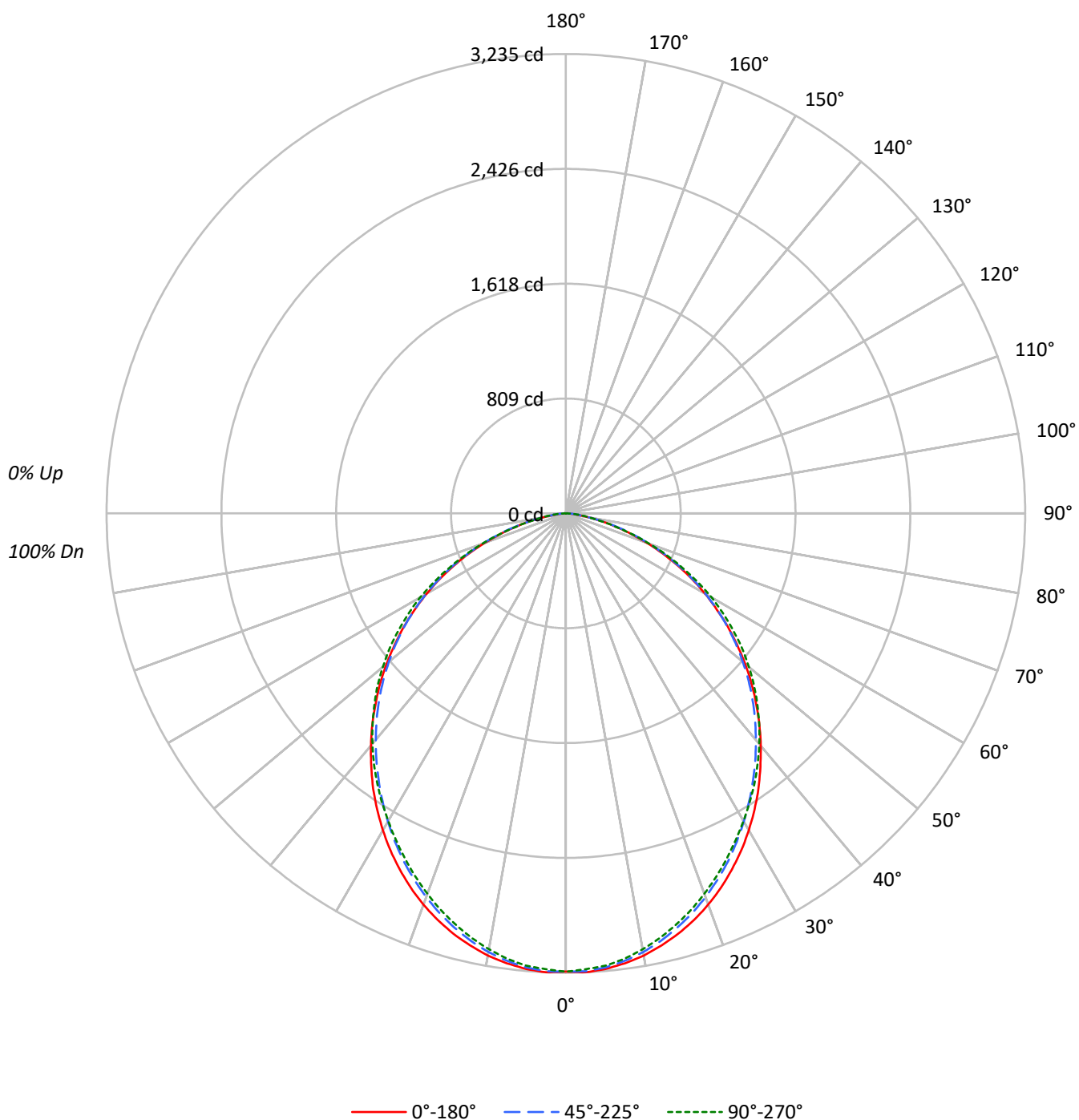
Lumens per Lamp: N/A
Luminaire Lumens: 7896.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 94.8
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	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	56		66	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	41	35	61	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	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8684	8684	8684
5°	8699	8669	8636
10°	8639	8572	8517
15°	8536	8420	8354
20°	8397	8236	8166
25°	8216	8024	7962
30°	8007	7787	7774
35°	7771	7548	7612
40°	7503	7314	7444
45°	7212	7077	7259
50°	6895	6812	7047
55°	6535	6508	6753
60°	6091	6123	6380
65°	5539	5613	5758
70°	4778	4910	4933
75°	3805	3961	3805
80°	2574	2695	2625
85°	1337	1772	2217

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7259 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.6	3.8
10°-20°	851.5	10.8
20°-30°	1247.4	15.8
30°-40°	1448.9	18.3
40°-50°	1448.7	18.3
50°-60°	1249.9	15.8
60°-70°	872.7	11.1
70°-80°	400.0	5.1
80°-90°	73.2	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°	2402.6	30.4
0°-40°	3851.5	48.8
0°-60°	6550.0	83.0
0°-90°	7896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3227	3227	3227	3227	3227	
5°	3220	3208	3209	3192	3197	305
15°	3064	3043	3022	2995	2999	863
25°	2767	2737	2702	2674	2682	1274
35°	2366	2328	2298	2298	2317	1478
45°	1895	1865	1860	1887	1908	1462
55°	1393	1369	1387	1425	1439	1243
65°	870	860	882	900	904	860
75°	366	365	381	374	366	393
85°	43	48	57	67	72	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3227.1	3227.1	3227.1	3227.1	3227.1
2.5°	3234.7	3222.9	3227.1	3213.7	3212.6
5°	3220.4	3207.7	3209.4	3192.4	3197.0
7.5°	3195.5	3181.5	3178.5	3159.3	3163.4
10°	3161.7	3144.7	3136.9	3114.4	3117.1
12.5°	3116.9	3098.5	3084.9	3058.6	3063.0
15°	3063.9	3043.1	3022.3	2995.1	2998.8
17.5°	3002.7	2979.1	2953.5	2922.5	2929.0
20°	2932.4	2906.3	2875.9	2843.3	2851.5
22.5°	2853.6	2825.4	2791.3	2760.7	2768.4
25°	2767.0	2737.4	2702.5	2673.7	2681.7
27.5°	2675.8	2642.7	2606.5	2583.2	2592.3
30°	2577.0	2542.3	2506.2	2488.3	2501.8
32.5°	2472.8	2437.7	2403.6	2394.8	2410.7
35°	2365.6	2328.3	2297.6	2298.4	2317.1
37.5°	2250.4	2217.4	2191.1	2201.4	2220.2
40°	2135.9	2101.8	2082.2	2098.8	2119.0
42.5°	2017.6	1986.1	1972.2	1996.1	2014.6
45°	1895.2	1865.1	1859.7	1887.2	1907.5
47.5°	1774.5	1744.2	1745.5	1776.6	1798.8
50°	1647.0	1620.4	1627.2	1663.5	1683.2
52.5°	1519.3	1493.9	1507.9	1546.7	1566.3
55°	1393.0	1369.1	1387.2	1425.2	1439.4
57.5°	1262.0	1244.9	1265.0	1299.2	1314.5
60°	1131.7	1116.0	1137.7	1170.9	1185.5
62.5°	1001.1	988.7	1010.7	1039.3	1045.6
65°	869.9	859.6	881.6	899.9	904.3
67.5°	737.0	731.2	753.3	765.9	767.1
70°	607.3	600.6	624.1	631.4	627.0
72.5°	481.4	479.4	497.5	499.6	491.1
75°	366.0	365.2	381.0	373.6	366.0
77.5°	258.8	259.4	270.1	261.2	257.3
80°	166.1	170.9	173.9	172.0	169.4
82.5°	93.3	99.4	101.7	112.1	116.5
85°	43.3	47.7	57.4	67.4	71.8
87.5°	14.7	18.3	23.8	25.6	24.0
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	18.44	20.03	18.81	20.34	20.65	18.74	20.32	19.10	20.64	20.95
	3H	19.90	21.32	20.27	21.65	22.01	20.19	21.62	20.57	21.94	22.31
	4H	20.32	21.66	20.72	22.01	22.38	20.59	21.93	20.99	22.28	22.65
	6H	20.53	21.76	20.94	22.13	22.52	20.78	22.02	21.19	22.38	22.77
	8H	20.55	21.73	20.98	22.12	22.52	20.82	22.00	21.24	22.39	22.79
	12H	20.55	21.68	20.98	22.06	22.49	20.84	21.97	21.27	22.35	22.78
4H	2H	19.01	20.35	19.41	20.70	21.08	19.25	20.59	19.65	20.94	21.32
	3H	20.65	21.76	21.06	22.16	22.56	20.90	22.01	21.31	22.41	22.81
	4H	21.15	22.16	21.59	22.57	23.01	21.39	22.39	21.82	22.80	23.24
	6H	21.44	22.31	21.89	22.75	23.21	21.65	22.52	22.10	22.96	23.42
	8H	21.48	22.29	21.94	22.73	23.20	21.71	22.52	22.17	22.96	23.43
	12H	21.49	22.22	21.97	22.69	23.17	21.75	22.48	22.23	22.96	23.43
8H	4H	21.34	22.16	21.81	22.60	23.07	21.55	22.37	22.02	22.81	23.28
	6H	21.68	22.35	22.18	22.84	23.32	21.87	22.54	22.37	23.03	23.51
	8H	21.75	22.35	22.26	22.86	23.35	21.96	22.56	22.48	23.07	23.56
	12H	21.78	22.31	22.29	22.81	23.37	22.04	22.57	22.55	23.07	23.63
12H	4H	21.34	22.07	21.82	22.55	23.02	21.55	22.28	22.03	22.76	23.23
	6H	21.68	22.28	22.19	22.79	23.28	21.87	22.47	22.38	22.98	23.47
	8H	21.78	22.31	22.29	22.80	23.37	21.99	22.52	22.50	23.02	23.58