

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: P1498234

Luminaire Tested: MAE-G-2-120-1STD-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1STD-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

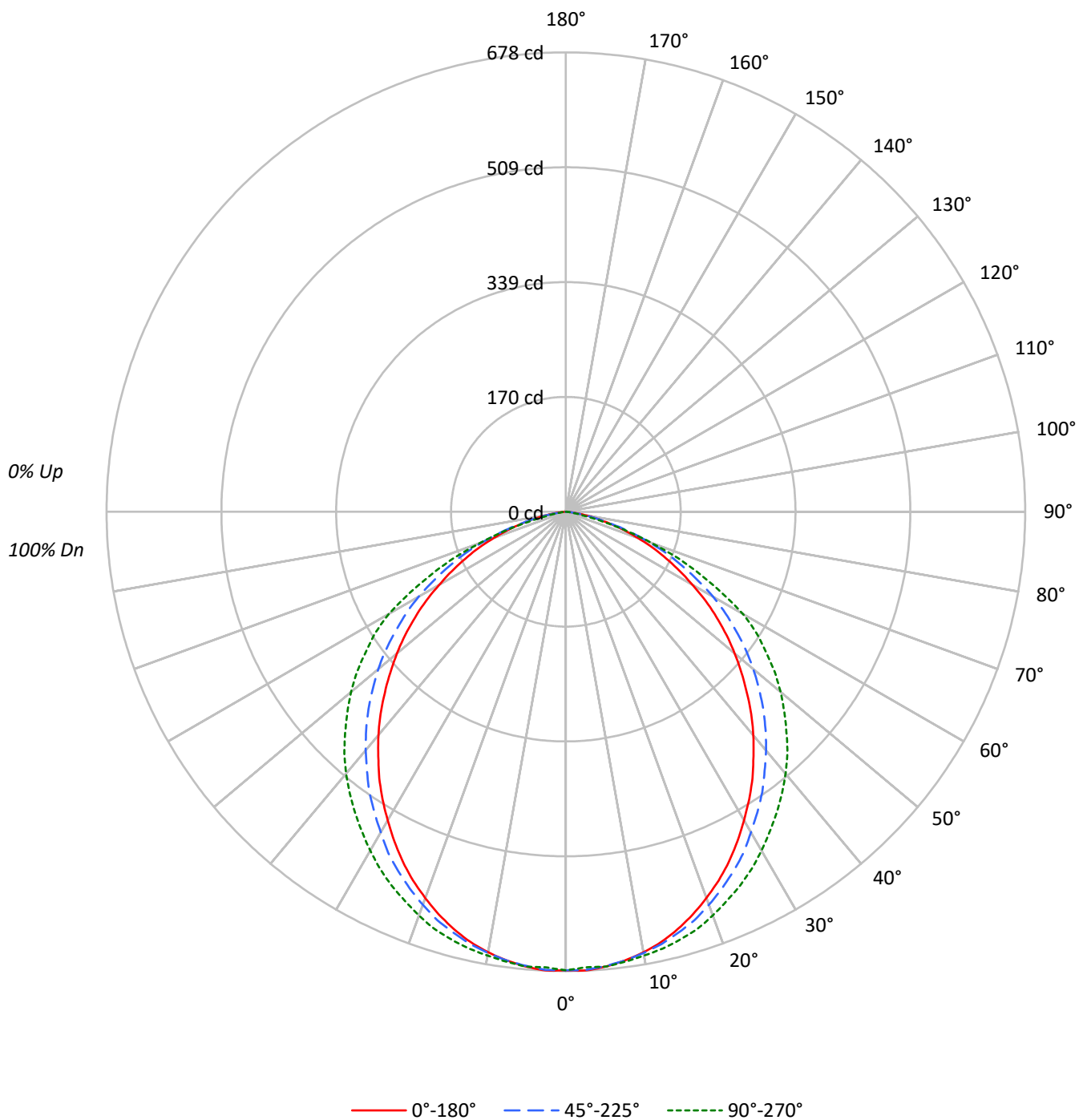
Lumens per Lamp: N/A
Luminaire Lumens: 1704.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
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°	1821	1821	1821
5°	1820	1818	1820
10°	1804	1807	1818
15°	1777	1791	1821
20°	1737	1768	1816
25°	1692	1738	1807
30°	1634	1698	1794
35°	1577	1660	1782
40°	1512	1615	1772
45°	1438	1568	1753
50°	1362	1513	1733
55°	1275	1439	1690
60°	1164	1352	1625
65°	1042	1209	1395
70°	889	1019	1065
75°	688	739	598
80°	453	392	211
85°	241	179	120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1753 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.8
10°-20°	181.7	10.7
20°-30°	270.1	15.9
30°-40°	317.6	18.6
40°-50°	320.5	18.8
50°-60°	278.3	16.3
60°-70°	189.4	11.1
70°-80°	73.8	4.3
80°-90°	8.8	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°	515.6	30.3
0°-40°	833.2	48.9
0°-60°	1432.0	84.0
0°-90°	1704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	674	673	673	673	674	64
15°	638	639	643	650	654	180
25°	570	573	585	600	609	262
35°	480	486	505	529	542	300
45°	378	388	412	444	461	292
55°	272	280	307	342	360	243
65°	164	171	190	210	219	162
75°	66	70	71	64	58	72
85°	8	8	6	5	4	11
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.8	676.8	676.8	676.8	676.8
2.5°	677.8	677.8	676.8	673.9	672.9
5°	673.9	672.9	672.9	672.9	673.9
7.5°	668.1	668.1	668.1	669.1	670.0
10°	660.3	660.3	661.3	663.2	665.2
12.5°	650.5	651.5	653.5	657.4	660.3
15°	637.9	638.9	642.8	649.6	653.5
17.5°	623.3	626.2	632.0	639.8	645.7
20°	606.7	609.6	617.4	627.2	634.0
22.5°	589.2	592.1	601.9	613.5	621.3
25°	569.7	572.6	585.3	599.9	608.7
27.5°	548.3	552.2	567.8	583.3	594.1
30°	525.9	530.8	546.3	565.8	577.5
32.5°	503.5	509.3	525.9	548.3	560.0
35°	480.1	486.0	505.4	528.8	542.4
37.5°	454.8	461.6	482.1	510.3	523.9
40°	430.5	437.3	459.7	489.9	504.5
42.5°	405.1	412.9	436.3	467.5	484.0
45°	377.9	387.6	411.9	444.1	460.6
47.5°	351.6	360.3	386.6	419.7	437.3
50°	325.3	335.0	361.3	395.4	413.9
52.5°	299.0	307.7	335.0	369.1	388.6
55°	271.7	280.5	306.8	341.8	360.3
57.5°	244.4	255.2	279.5	313.6	334.0
60°	216.2	225.9	251.3	285.3	301.9
62.5°	189.9	198.7	220.1	252.2	260.0
65°	163.6	171.4	189.9	210.4	219.1
67.5°	139.3	145.1	161.7	175.3	179.2
70°	113.0	118.8	129.5	137.3	135.4
72.5°	89.6	93.5	100.3	99.3	94.5
75°	66.2	70.1	71.1	64.3	57.5
77.5°	46.7	48.7	45.8	36.0	29.2
80°	29.2	30.2	25.3	15.6	13.6
82.5°	16.6	16.6	11.7	9.7	7.8
85°	7.8	7.8	5.8	4.9	3.9
87.5°	2.9	2.9	1.9	1.9	1.9
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	12.69	14.27	13.05	14.58	14.90	14.27	15.85	14.63	16.16	16.47
	3H	14.02	15.44	14.40	15.77	16.13	15.54	16.95	15.91	17.28	17.64
	4H	14.39	15.72	14.79	16.07	16.45	15.73	17.06	16.13	17.41	17.79
	6H	14.55	15.78	14.97	16.15	16.54	15.73	16.96	16.14	17.32	17.71
	8H	14.57	15.74	15.00	16.13	16.53	15.70	16.87	16.13	17.26	17.66
	12H	14.56	15.68	14.99	16.06	16.49	15.68	16.80	16.11	17.18	17.61
4H	2H	13.35	14.68	13.75	15.03	15.41	14.64	15.97	15.04	16.32	16.70
	3H	14.85	15.95	15.26	16.35	16.75	16.08	17.18	16.49	17.58	17.98
	4H	15.29	16.28	15.72	16.70	17.13	16.33	17.32	16.77	17.74	18.18
	6H	15.52	16.38	15.97	16.82	17.28	16.36	17.22	16.82	17.66	18.12
	8H	15.54	16.34	16.00	16.79	17.25	16.33	17.14	16.80	17.58	18.05
	12H	15.55	16.26	16.03	16.74	17.21	16.31	17.03	16.79	17.51	17.98
8H	4H	15.45	16.25	15.91	16.69	17.16	16.42	17.22	16.88	17.66	18.13
	6H	15.71	16.37	16.21	16.86	17.34	16.45	17.11	16.95	17.60	18.08
	8H	15.75	16.34	16.26	16.85	17.34	16.43	17.02	16.94	17.52	18.01
	12H	15.77	16.29	16.28	16.78	17.35	16.41	16.93	16.92	17.42	17.99
12H	4H	15.43	16.15	15.91	16.62	17.09	16.40	17.12	16.89	17.60	18.07
	6H	15.68	16.27	16.19	16.78	17.27	16.43	17.02	16.94	17.52	18.01
	8H	15.75	16.27	16.26	16.76	17.32	16.42	16.94	16.93	17.43	18.00