

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: P1498222

Luminaire Tested: MAE-G-2-120-1STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498222
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-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

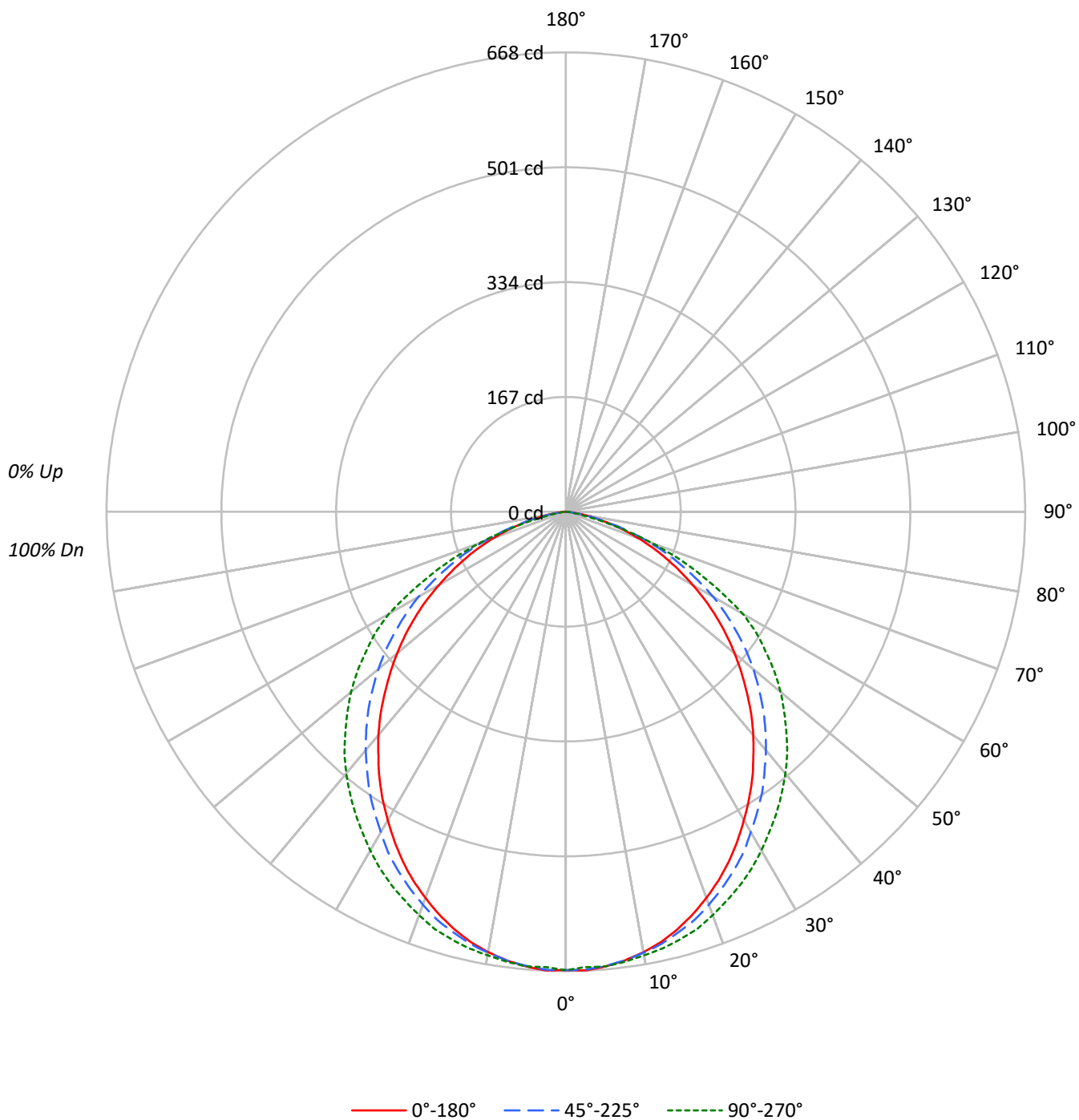
Lumens per Lamp: N/A
Luminaire Lumens: 1678.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1794	1794	1794
5°	1793	1790	1793
10°	1777	1779	1790
15°	1750	1763	1793
20°	1711	1741	1788
25°	1666	1711	1780
30°	1609	1672	1767
35°	1553	1635	1755
40°	1489	1590	1745
45°	1416	1544	1726
50°	1341	1490	1706
55°	1255	1417	1665
60°	1146	1331	1600
65°	1026	1191	1374
70°	875	1003	1049
75°	678	728	588
80°	446	386	208
85°	238	179	117

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	3.8
10°-20°	178.9	10.7
20°-30°	266.0	15.9
30°-40°	312.7	18.6
40°-50°	315.6	18.8
50°-60°	274.0	16.3
60°-70°	186.5	11.1
70°-80°	72.7	4.3
80°-90°	8.7	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°	507.8	30.3
0°-40°	820.5	48.9
0°-60°	1410.1	84.0
0°-90°	1678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	664	663	663	663	664	63
15°	628	629	633	640	644	177
25°	561	564	576	591	599	258
35°	473	478	498	521	534	295
45°	372	382	406	437	454	287
55°	268	276	302	337	355	239
65°	161	169	187	207	216	160
75°	65	69	70	63	57	71
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°	666.5	666.5	666.5	666.5	666.5
2.5°	667.5	667.5	666.5	663.6	662.7
5°	663.6	662.7	662.7	662.7	663.6
7.5°	657.9	657.9	657.9	658.8	659.8
10°	650.2	650.2	651.2	653.1	655.0
12.5°	640.6	641.6	643.5	647.3	650.2
15°	628.2	629.1	632.9	639.7	643.5
17.5°	613.8	616.6	622.4	630.1	635.8
20°	597.5	600.3	608.0	617.6	624.3
22.5°	580.2	583.1	592.7	604.2	611.9
25°	561.0	563.9	576.4	590.8	599.4
27.5°	539.9	543.8	559.1	574.4	585.0
30°	517.9	522.7	538.0	557.2	568.7
32.5°	495.8	501.6	517.9	539.9	551.4
35°	472.8	478.5	497.7	520.7	534.2
37.5°	447.9	454.6	474.7	502.5	515.9
40°	423.9	430.6	452.7	482.4	496.8
42.5°	398.9	406.6	429.6	460.3	476.6
45°	372.1	381.7	405.7	437.3	453.6
47.5°	346.2	354.8	380.7	413.3	430.6
50°	320.3	329.9	355.8	389.4	407.6
52.5°	294.4	303.0	329.9	363.5	382.6
55°	267.6	276.2	302.1	336.6	354.8
57.5°	240.7	251.3	275.2	308.8	328.9
60°	212.9	222.5	247.4	281.0	297.3
62.5°	187.0	195.6	216.7	248.4	256.1
65°	161.1	168.8	187.0	207.1	215.8
67.5°	137.1	142.9	159.2	172.6	176.5
70°	111.2	117.0	127.5	135.2	133.3
72.5°	88.2	92.1	98.8	97.8	93.0
75°	65.2	69.0	70.0	63.3	56.6
77.5°	46.0	48.0	45.1	35.5	28.8
80°	28.8	29.7	24.9	15.3	13.4
82.5°	16.3	16.3	11.5	9.6	7.7
85°	7.7	7.7	5.8	4.8	3.8
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	12.63	14.21	13.00	14.53	14.84	14.21	15.79	14.58	16.11	16.42
	3H	13.97	15.39	14.35	15.71	16.08	15.48	16.90	15.86	17.23	17.59
	4H	14.34	15.67	14.74	16.01	16.39	15.68	17.01	16.08	17.36	17.73
	6H	14.50	15.73	14.91	16.09	16.49	15.67	16.90	16.09	17.27	17.66
	8H	14.52	15.69	14.94	16.08	16.48	15.65	16.82	16.07	17.21	17.61
	12H	14.51	15.63	14.94	16.01	16.44	15.62	16.74	16.05	17.12	17.55
4H	2H	13.30	14.63	13.70	14.98	15.35	14.59	15.92	14.99	16.27	16.65
	3H	14.80	15.90	15.21	16.30	16.70	16.03	17.13	16.44	17.53	17.93
	4H	15.24	16.23	15.67	16.64	17.08	16.28	17.27	16.71	17.68	18.12
	6H	15.46	16.32	15.92	16.76	17.22	16.31	17.17	16.76	17.61	18.07
	8H	15.49	16.29	15.95	16.73	17.20	16.28	17.08	16.74	17.53	17.99
	12H	15.49	16.21	15.97	16.68	17.15	16.26	16.97	16.74	17.45	17.92
8H	4H	15.40	16.20	15.86	16.64	17.11	16.37	17.17	16.83	17.61	18.08
	6H	15.66	16.31	16.15	16.80	17.28	16.40	17.06	16.89	17.55	18.02
	8H	15.70	16.29	16.21	16.80	17.28	16.37	16.96	16.89	17.47	17.96
	12H	15.72	16.24	16.23	16.73	17.29	16.36	16.88	16.87	17.37	17.93
12H	4H	15.38	16.09	15.86	16.57	17.04	16.35	17.07	16.83	17.54	18.01
	6H	15.63	16.22	16.14	16.73	17.21	16.37	16.96	16.88	17.47	17.96
	8H	15.70	16.21	16.20	16.71	17.27	16.37	16.89	16.88	17.38	17.94