

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: P1499611

Luminaire Tested: MAE-G-4-120-3LO-LO-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499611
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-4-120-3LO-LO-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

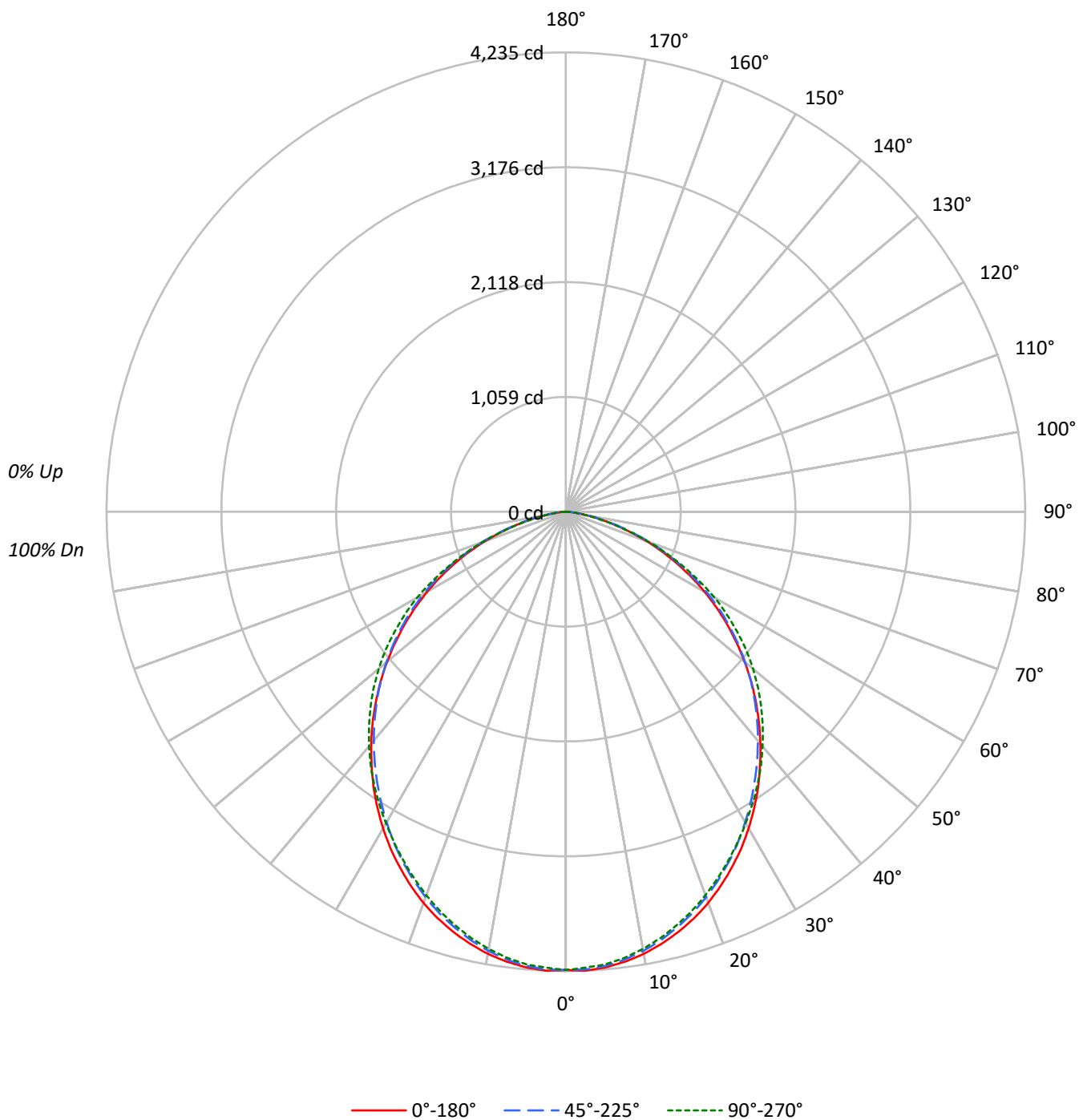
Lumens per Lamp: N/A
Luminaire Lumens: 10398.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	86
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5683	5683	5683
5°	5694	5675	5657
10°	5654	5617	5590
15°	5586	5526	5497
20°	5494	5415	5386
25°	5373	5284	5265
30°	5236	5136	5152
35°	5080	4985	5057
40°	4903	4839	4957
45°	4711	4688	4845
50°	4502	4518	4713
55°	4266	4321	4520
60°	3973	4069	4261
65°	3609	3727	3808
70°	3108	3236	3209
75°	2469	2567	2393
80°	1661	1678	1552
85°	852	1047	1271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4845 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.7	3.8
10°-20°	1117.7	10.7
20°-30°	1641.6	15.8
30°-40°	1911.5	18.4
40°-50°	1916.0	18.4
50°-60°	1656.0	15.9
60°-70°	1152.0	11.1
70°-80°	516.5	5.0
80°-90°	89.1	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°	3157.0	30.4
0°-40°	5068.5	48.7
0°-60°	8640.4	83.1
0°-90°	10398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4224	4224	4224	4224	4224	
5°	4216	4198	4202	4183	4188	400
15°	4010	3984	3967	3940	3946	1130
25°	3620	3588	3559	3532	3546	1666
35°	3092	3054	3035	3049	3079	1932
45°	2476	2449	2464	2514	2546	1910
55°	1818	1799	1842	1905	1927	1623
65°	1134	1131	1170	1192	1196	1120
75°	475	479	494	475	460	510
85°	55	59	68	78	82	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4224.0	4224.0	4224.0	4224.0	4224.0
2.5°	4234.6	4217.0	4224.0	4209.0	4205.9
5°	4215.6	4197.5	4202.1	4182.7	4188.4
7.5°	4182.8	4163.7	4163.4	4142.4	4147.6
10°	4138.4	4115.9	4111.2	4087.2	4091.3
12.5°	4079.3	4056.1	4045.7	4018.4	4025.3
15°	4009.9	3984.3	3966.8	3940.0	3946.2
17.5°	3929.3	3901.2	3880.1	3849.0	3859.1
20°	3837.0	3806.8	3781.5	3748.4	3761.7
22.5°	3733.4	3701.8	3672.9	3643.2	3656.6
25°	3619.5	3587.6	3559.2	3532.4	3546.4
27.5°	3499.7	3464.1	3435.6	3416.6	3432.1
30°	3370.0	3333.3	3305.8	3294.3	3316.4
32.5°	3233.1	3196.7	3172.7	3173.8	3199.4
35°	3092.5	3054.3	3035.1	3049.2	3079.0
37.5°	2941.3	2909.2	2896.6	2923.6	2953.8
40°	2791.4	2758.0	2754.8	2790.2	2822.0
42.5°	2636.4	2607.1	2611.0	2656.3	2686.0
45°	2476.0	2448.7	2463.8	2513.7	2546.2
47.5°	2318.4	2290.4	2313.9	2368.4	2403.4
50°	2150.7	2128.1	2158.6	2219.6	2251.7
52.5°	1984.2	1962.6	2001.4	2065.7	2096.6
55°	1818.5	1799.0	1842.2	1904.6	1926.7
57.5°	1647.0	1636.2	1680.7	1735.3	1758.5
60°	1476.4	1467.1	1512.0	1562.5	1583.3
62.5°	1305.5	1300.4	1343.1	1383.7	1390.5
65°	1133.5	1130.7	1170.5	1192.1	1196.2
67.5°	959.5	961.8	997.8	1008.5	1007.9
70°	790.0	789.9	822.6	825.0	815.6
72.5°	625.2	630.1	650.9	645.2	630.1
75°	474.9	479.3	493.8	474.6	460.4
77.5°	335.1	338.7	344.7	323.7	314.7
80°	214.4	220.9	216.5	206.4	200.3
82.5°	119.7	126.4	122.6	131.6	135.8
85°	55.2	59.2	67.8	78.2	82.3
87.5°	18.8	22.4	27.8	29.6	27.7
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	16.97	18.55	17.33	18.87	19.18	17.39	18.97	17.75	19.29	19.60
	3H	18.41	19.84	18.79	20.17	20.53	18.79	20.22	19.17	20.54	20.91
	4H	18.83	20.17	19.23	20.52	20.89	19.16	20.49	19.56	20.84	21.22
	6H	19.03	20.27	19.44	20.63	21.03	19.31	20.54	19.72	20.91	21.30
	8H	19.06	20.24	19.48	20.63	21.02	19.33	20.51	19.76	20.90	21.30
	12H	19.05	20.18	19.48	20.56	20.99	19.34	20.47	19.77	20.85	21.28
4H	2H	17.56	18.89	17.96	19.24	19.62	17.90	19.23	18.29	19.58	19.96
	3H	19.18	20.29	19.59	20.69	21.09	19.49	20.60	19.90	21.00	21.40
	4H	19.68	20.68	20.11	21.09	21.53	19.93	20.93	20.37	21.35	21.79
	6H	19.95	20.82	20.41	21.26	21.72	20.15	21.02	20.61	21.46	21.92
	8H	19.99	20.80	20.46	21.25	21.71	20.19	21.00	20.65	21.45	21.91
	12H	20.00	20.73	20.48	21.21	21.68	20.22	20.95	20.70	21.43	21.90
8H	4H	19.86	20.67	20.32	21.12	21.58	20.09	20.91	20.56	21.35	21.82
	6H	20.19	20.86	20.68	21.35	21.82	20.36	21.03	20.85	21.52	21.99
	8H	20.25	20.85	20.76	21.36	21.85	20.42	21.02	20.94	21.53	22.02
	12H	20.28	20.81	20.79	21.30	21.87	20.48	21.01	20.99	21.50	22.07
12H	4H	19.86	20.58	20.34	21.06	21.53	20.09	20.81	20.57	21.29	21.76
	6H	20.18	20.78	20.69	21.29	21.78	20.35	20.95	20.86	21.46	21.95
	8H	20.28	20.80	20.78	21.30	21.86	20.45	20.98	20.96	21.47	22.03