

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: P1499638

Luminaire Tested: MAE-G-4-120-3LO-STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499638
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-STD-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

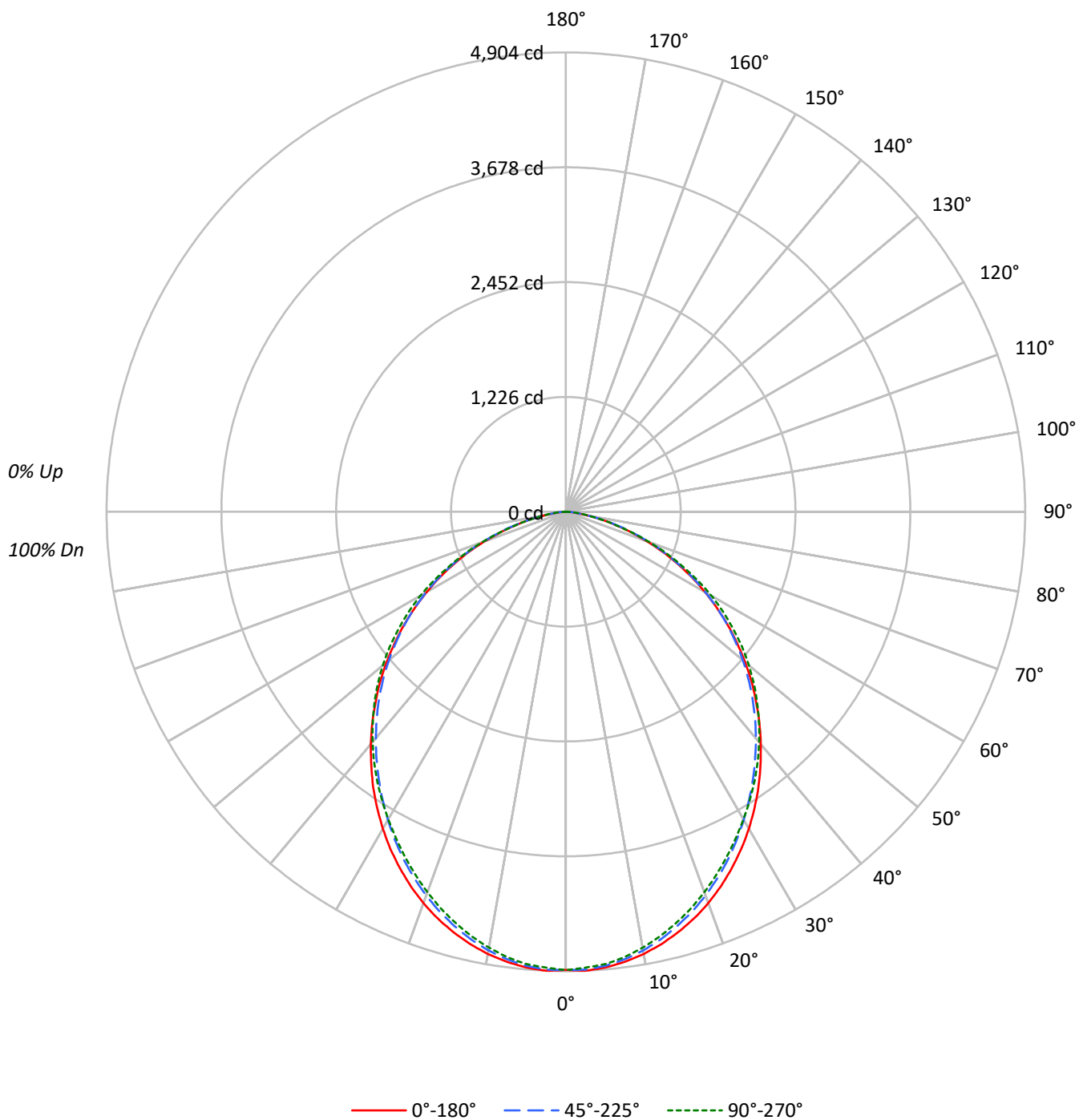
Lumens per Lamp: N/A
Luminaire Lumens: 11968.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.5
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°	6583	6583	6583
5°	6594	6571	6546
10°	6549	6497	6456
15°	6470	6382	6332
20°	6366	6242	6188
25°	6228	6081	6034
30°	6070	5901	5890
35°	5891	5719	5767
40°	5688	5542	5639
45°	5468	5362	5499
50°	5227	5161	5337
55°	4954	4931	5115
60°	4617	4639	4833
65°	4199	4253	4363
70°	3623	3721	3740
75°	2885	3004	2889
80°	1953	2046	1997
85°	1016	1348	1687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5499 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.3	3.8
10°-20°	1290.8	10.8
20°-30°	1890.8	15.8
30°-40°	2195.9	18.3
40°-50°	2195.5	18.3
50°-60°	1894.0	15.8
60°-70°	1322.7	11.1
70°-80°	606.7	5.1
80°-90°	111.4	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°	3641.9	30.4
0°-40°	5837.8	48.8
0°-60°	9927.3	82.9
0°-90°	11968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4892	4892	4892	4892	4892	
5°	4882	4863	4866	4839	4847	463
15°	4645	4613	4581	4540	4545	1309
25°	4195	4150	4096	4052	4064	1931
35°	3586	3530	3482	3483	3511	2241
45°	2874	2827	2818	2859	2890	2217
55°	2112	2075	2102	2159	2180	1885
65°	1319	1303	1336	1364	1370	1303
75°	555	554	578	567	556	596
85°	66	72	87	103	109	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4892.3	4892.3	4892.3	4892.3	4892.3
2.5°	4903.8	4886.2	4892.3	4872.0	4870.4
5°	4882.2	4863.1	4865.5	4839.4	4846.7
7.5°	4844.5	4823.3	4818.6	4789.3	4795.4
10°	4793.3	4767.5	4755.5	4721.0	4725.2
12.5°	4725.2	4697.4	4676.4	4636.3	4643.0
15°	4645.0	4613.4	4581.4	4539.8	4545.4
17.5°	4552.2	4516.3	4477.1	4429.6	4439.5
20°	4445.7	4405.9	4359.3	4309.3	4321.8
22.5°	4326.3	4283.3	4231.0	4184.1	4195.6
25°	4194.9	4149.8	4096.2	4052.1	4064.2
27.5°	4056.7	4006.2	3950.5	3914.8	3928.4
30°	3906.9	3853.9	3798.3	3770.9	3791.2
32.5°	3749.0	3695.2	3642.9	3629.1	3653.0
35°	3586.5	3529.5	3482.1	3482.8	3510.9
37.5°	3411.8	3361.4	3320.5	3335.6	3364.0
40°	3238.4	3186.1	3155.5	3180.1	3210.4
42.5°	3058.9	3010.8	2988.7	3024.3	3052.1
45°	2873.5	2827.2	2818.1	2859.4	2889.8
47.5°	2690.4	2644.0	2645.0	2691.7	2725.1
50°	2497.1	2456.3	2465.8	2520.0	2549.7
52.5°	2303.3	2264.6	2285.0	2343.2	2372.7
55°	2112.0	2075.3	2101.9	2159.2	2180.5
57.5°	1913.5	1887.0	1916.7	1968.0	1991.2
60°	1715.9	1691.7	1723.9	1773.9	1796.0
62.5°	1517.8	1498.6	1531.5	1574.8	1584.4
65°	1319.0	1302.9	1335.9	1363.8	1370.5
67.5°	1117.5	1108.3	1141.5	1160.9	1162.9
70°	921.0	910.5	945.9	957.3	950.6
72.5°	729.9	726.6	754.2	757.7	745.0
75°	554.9	553.6	577.8	567.1	555.7
77.5°	392.5	393.1	409.8	396.8	391.1
80°	252.0	259.3	264.0	261.7	257.7
82.5°	141.6	150.9	154.7	170.6	177.3
85°	65.8	72.5	87.3	102.7	109.3
87.5°	22.3	27.8	36.1	39.0	36.6
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	17.48	19.06	17.84	19.38	19.69	17.77	19.36	18.14	19.67	19.98
	3H	18.93	20.36	19.31	20.69	21.05	19.23	20.65	19.60	20.98	21.34
	4H	19.36	20.70	19.76	21.04	21.42	19.63	20.97	20.03	21.31	21.69
	6H	19.56	20.80	19.97	21.17	21.56	19.82	21.05	20.23	21.42	21.81
	8H	19.59	20.77	20.02	21.16	21.56	19.86	21.04	20.28	21.42	21.82
	12H	19.59	20.72	20.02	21.10	21.53	19.88	21.01	20.31	21.39	21.82
4H	2H	18.05	19.39	18.45	19.74	20.11	18.29	19.63	18.69	19.97	20.35
	3H	19.68	20.79	20.09	21.19	21.59	19.93	21.04	20.34	21.44	21.84
	4H	20.19	21.19	20.62	21.61	22.04	20.42	21.42	20.85	21.84	22.27
	6H	20.47	21.34	20.93	21.79	22.24	20.69	21.56	21.14	22.00	22.46
	8H	20.52	21.33	20.98	21.77	22.24	20.75	21.56	21.21	22.00	22.47
	12H	20.53	21.26	21.01	21.73	22.20	20.79	21.52	21.27	22.00	22.47
8H	4H	20.38	21.19	20.84	21.64	22.10	20.59	21.40	21.05	21.85	22.31
	6H	20.72	21.39	21.21	21.88	22.36	20.91	21.58	21.41	22.07	22.55
	8H	20.79	21.39	21.30	21.90	22.38	21.00	21.60	21.52	22.11	22.60
	12H	20.82	21.35	21.33	21.84	22.41	21.09	21.62	21.59	22.11	22.67
12H	4H	20.38	21.11	20.86	21.58	22.06	20.59	21.32	21.07	21.79	22.26
	6H	20.72	21.32	21.23	21.83	22.31	20.91	21.51	21.42	22.02	22.50
	8H	20.82	21.35	21.33	21.84	22.40	21.03	21.56	21.54	22.06	22.62