

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: P1499614

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499614
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-35-90-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

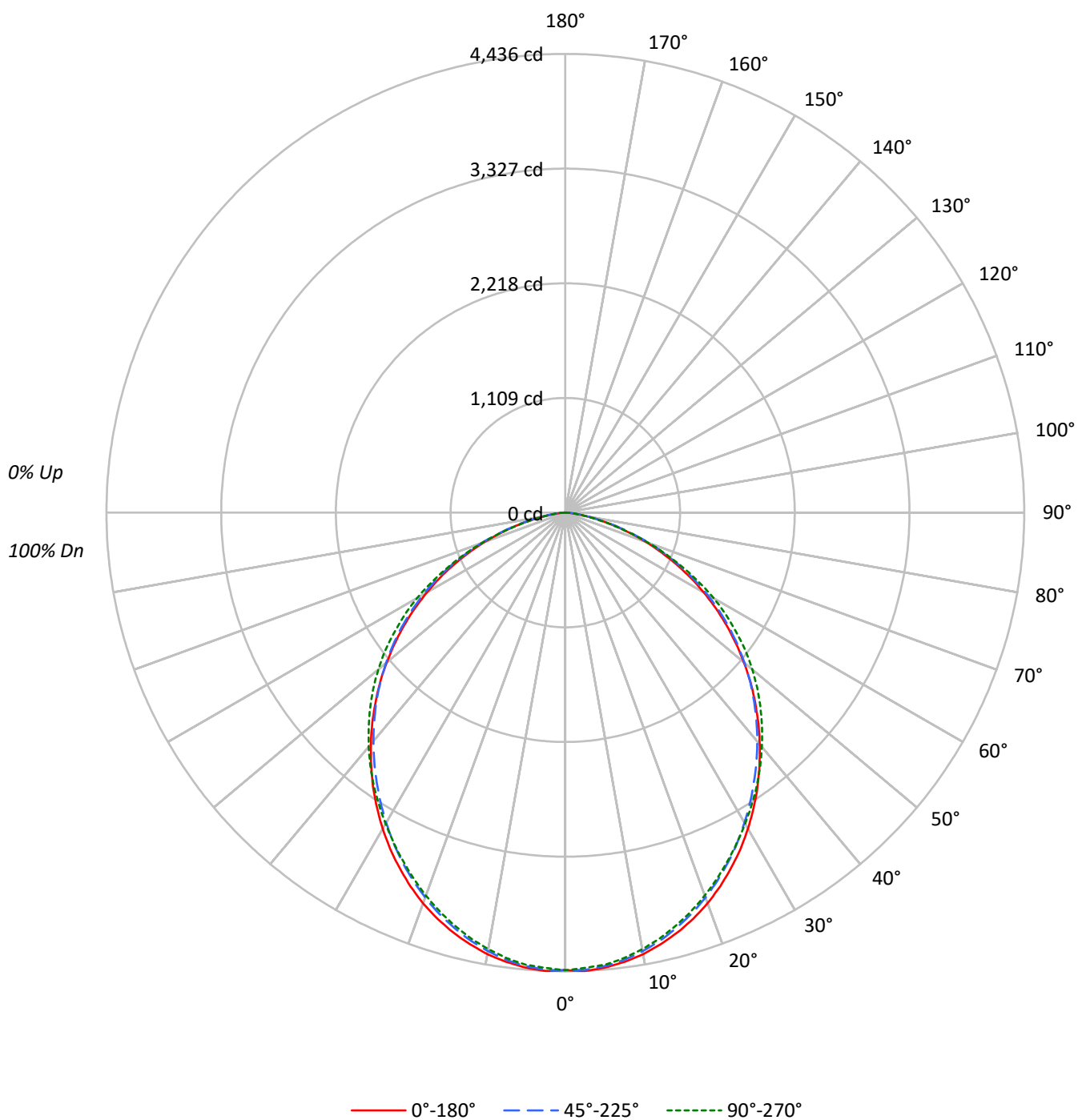
Lumens per Lamp: N/A
Luminaire Lumens: 10893.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5954	5954	5954
5°	5965	5946	5926
10°	5923	5884	5856
15°	5852	5789	5758
20°	5755	5672	5643
25°	5629	5536	5516
30°	5485	5381	5398
35°	5321	5223	5298
40°	5136	5069	5192
45°	4936	4912	5076
50°	4716	4733	4937
55°	4469	4527	4735
60°	4162	4263	4463
65°	3781	3904	3990
70°	3256	3390	3361
75°	2586	2689	2507
80°	1740	1757	1626
85°	894	1098	1332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5076 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.6	3.8
10°-20°	1170.9	10.7
20°-30°	1719.8	15.8
30°-40°	2002.5	18.4
40°-50°	2007.2	18.4
50°-60°	1734.8	15.9
60°-70°	1206.9	11.1
70°-80°	541.1	5.0
80°-90°	93.4	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°	3307.2	30.4
0°-40°	5309.7	48.7
0°-60°	9051.7	83.1
0°-90°	10893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4425	4425	4425	4425	4425	
5°	4416	4397	4402	4382	4388	419
15°	4201	4174	4156	4128	4134	1184
25°	3792	3758	3729	3701	3715	1746
35°	3240	3200	3180	3194	3226	2024
45°	2594	2565	2581	2633	2667	2001
55°	1905	1885	1930	1995	2018	1701
65°	1188	1185	1226	1249	1253	1174
75°	498	502	517	497	482	534
85°	58	62	71	82	86	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4425.0	4425.0	4425.0	4425.0	4425.0
2.5°	4436.1	4417.8	4425.0	4409.4	4406.1
5°	4416.3	4397.3	4402.2	4381.8	4387.8
7.5°	4382.0	4361.9	4361.6	4339.6	4345.0
10°	4335.4	4311.8	4306.9	4281.8	4286.0
12.5°	4273.5	4249.2	4238.3	4209.8	4216.9
15°	4200.8	4173.9	4155.6	4127.6	4134.0
17.5°	4116.4	4087.0	4064.9	4032.2	4042.8
20°	4019.6	3988.0	3961.5	3926.8	3940.8
22.5°	3911.2	3878.0	3847.7	3816.8	3830.7
25°	3791.8	3758.3	3728.7	3700.6	3715.3
27.5°	3666.3	3629.0	3599.2	3579.2	3595.5
30°	3530.4	3491.9	3463.2	3451.1	3474.3
32.5°	3387.0	3348.9	3323.8	3324.9	3351.6
35°	3239.7	3199.7	3179.6	3194.4	3225.6
37.5°	3081.3	3047.7	3034.5	3062.7	3094.4
40°	2924.3	2889.4	2885.9	2923.0	2956.3
42.5°	2761.9	2731.1	2735.3	2782.8	2813.8
45°	2593.8	2565.3	2581.2	2633.4	2667.4
47.5°	2428.7	2399.5	2424.0	2481.2	2517.8
50°	2253.1	2229.5	2261.3	2325.2	2358.8
52.5°	2078.6	2055.9	2096.7	2164.1	2196.4
55°	1905.1	1884.6	1929.9	1995.2	2018.5
57.5°	1725.4	1714.0	1760.7	1817.9	1842.2
60°	1546.7	1537.0	1584.0	1636.9	1658.6
62.5°	1367.7	1362.3	1407.0	1449.7	1456.8
65°	1187.5	1184.6	1226.3	1248.9	1253.2
67.5°	1005.3	1007.5	1045.3	1056.6	1055.9
70°	827.7	827.6	861.8	864.4	854.4
72.5°	655.0	660.0	681.8	675.9	660.2
75°	497.5	502.1	517.3	497.2	482.2
77.5°	351.1	354.8	361.2	339.1	329.7
80°	224.6	231.5	226.8	216.3	209.9
82.5°	125.4	132.5	128.4	137.9	142.3
85°	57.9	62.0	71.1	81.8	86.3
87.5°	19.7	23.5	29.1	31.1	29.0
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	17.13	18.71	17.49	19.03	19.34	17.55	19.13	17.91	19.45	19.76
	3H	18.58	20.00	18.95	20.33	20.69	18.96	20.38	19.33	20.71	21.07
	4H	18.99	20.33	19.39	20.68	21.06	19.32	20.66	19.72	21.00	21.38
	6H	19.19	20.43	19.61	20.80	21.19	19.47	20.71	19.88	21.07	21.46
	8H	19.22	20.40	19.64	20.79	21.19	19.49	20.67	19.92	21.06	21.46
	12H	19.22	20.34	19.65	20.73	21.16	19.51	20.63	19.93	21.01	21.44
4H	2H	17.72	19.06	18.12	19.40	19.78	18.06	19.39	18.46	19.74	20.12
	3H	19.34	20.45	19.75	20.85	21.25	19.65	20.76	20.06	21.16	21.56
	4H	19.84	20.84	20.27	21.26	21.69	20.10	21.10	20.53	21.51	21.95
	6H	20.12	20.98	20.57	21.43	21.88	20.31	21.18	20.77	21.63	22.08
	8H	20.15	20.97	20.62	21.41	21.88	20.35	21.17	20.82	21.61	22.08
	12H	20.17	20.89	20.65	21.37	21.84	20.38	21.11	20.87	21.59	22.06
8H	4H	20.02	20.84	20.49	21.28	21.74	20.26	21.07	20.72	21.51	21.98
	6H	20.35	21.02	20.84	21.51	21.98	20.52	21.19	21.02	21.68	22.16
	8H	20.41	21.01	20.92	21.52	22.01	20.59	21.19	21.10	21.69	22.18
	12H	20.44	20.97	20.95	21.46	22.03	20.65	21.17	21.15	21.67	22.23
12H	4H	20.02	20.74	20.50	21.22	21.69	20.25	20.98	20.73	21.45	21.92
	6H	20.34	20.94	20.85	21.45	21.94	20.51	21.11	21.02	21.62	22.11
	8H	20.44	20.97	20.95	21.46	22.02	20.61	21.14	21.12	21.63	22.19