

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: P1499350

Luminaire Tested: MAE-G-4-120-2LO-STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2LO-STD-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

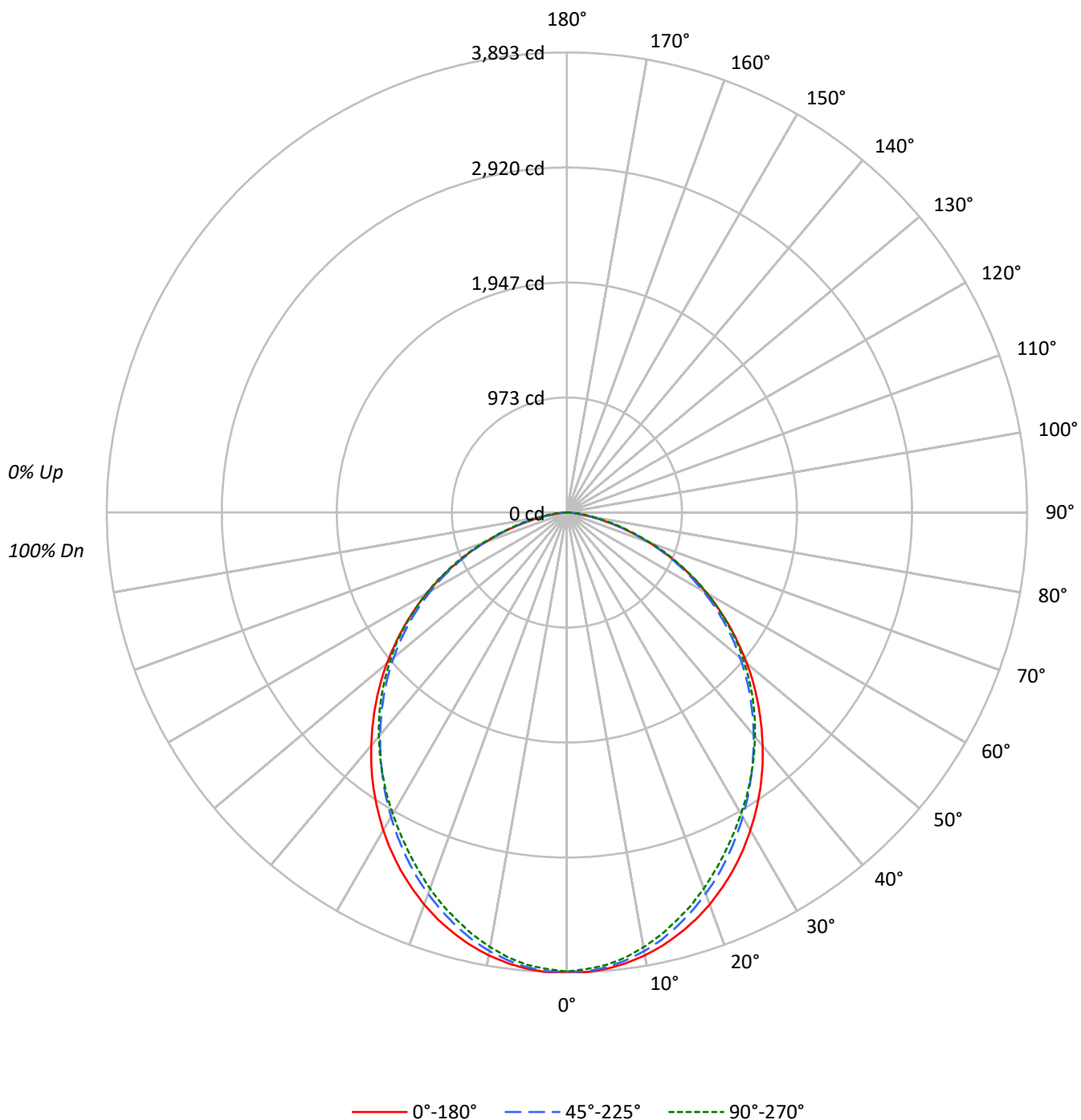
Lumens per Lamp: N/A
Luminaire Lumens: 9395.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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	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	87	87	87	85
2	100	92	86	80	98	90	85	79	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	61
4	84	73	64	58	82	71	63	57	69	62	56	66	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	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	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	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5228	5228	5228
5°	5235	5217	5190
10°	5199	5149	5102
15°	5136	5044	4981
20°	5054	4916	4848
25°	4949	4774	4704
30°	4824	4622	4575
35°	4684	4465	4461
40°	4523	4317	4347
45°	4350	4166	4229
50°	4162	4005	4084
55°	3943	3815	3912
60°	3681	3583	3699
65°	3352	3283	3391
70°	2900	2893	2977
75°	2316	2391	2433
80°	1579	1730	1817
85°	824	1213	1585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4350 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.1	3.9
10°-20°	1020.2	10.9
20°-30°	1487.4	15.8
30°-40°	1720.1	18.3
40°-50°	1712.2	18.2
50°-60°	1472.0	15.7
60°-70°	1031.9	11.0
70°-80°	488.8	5.2
80°-90°	97.3	1.0
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°	2872.7	30.6
0°-40°	4592.7	48.9
0°-60°	7777.0	82.8
0°-90°	9395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3885	3885	3885	3885	3885	
5°	3876	3864	3862	3837	3843	368
15°	3687	3660	3621	3575	3576	1039
25°	3333	3288	3216	3167	3169	1534
35°	2852	2792	2719	2703	2716	1782
45°	2286	2231	2190	2205	2222	1764
55°	1681	1636	1626	1654	1668	1501
65°	1053	1026	1031	1053	1065	1041
75°	446	436	460	466	468	479
85°	53	62	79	96	103	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3885.4	3885.4	3885.4	3885.4	3885.4
2.5°	3892.7	3882.3	3885.4	3865.8	3866.5
5°	3876.0	3863.6	3862.4	3837.0	3842.8
7.5°	3846.4	3831.0	3822.7	3793.3	3798.1
10°	3805.4	3785.6	3769.0	3732.3	3734.5
12.5°	3752.6	3729.2	3702.4	3659.4	3662.6
15°	3687.2	3660.0	3621.3	3574.8	3575.9
17.5°	3614.8	3584.0	3531.8	3481.9	3486.9
20°	3529.6	3494.6	3433.1	3381.4	3385.9
22.5°	3434.8	3394.6	3329.5	3277.4	3278.2
25°	3333.3	3288.2	3216.0	3167.3	3168.7
27.5°	3223.5	3173.0	3097.9	3052.9	3057.0
30°	3105.2	3051.5	2974.8	2937.8	2944.6
32.5°	2980.8	2924.9	2849.4	2823.1	2834.6
35°	2851.8	2792.1	2718.6	2703.2	2716.0
37.5°	2717.1	2658.2	2589.0	2584.4	2597.7
40°	2575.4	2518.5	2457.8	2460.3	2475.2
42.5°	2432.3	2376.9	2325.1	2335.2	2351.3
45°	2286.3	2230.7	2189.5	2205.2	2222.3
47.5°	2140.4	2085.2	2053.6	2073.8	2089.2
50°	1988.1	1937.0	1913.1	1936.7	1950.9
52.5°	1832.9	1785.5	1770.9	1797.6	1816.9
55°	1680.9	1635.5	1626.5	1653.9	1667.6
57.5°	1524.2	1485.9	1481.4	1507.2	1521.6
60°	1367.9	1332.2	1331.6	1359.1	1374.7
62.5°	1210.0	1177.7	1182.3	1208.4	1220.7
65°	1052.9	1025.7	1031.2	1052.9	1065.2
67.5°	897.1	872.6	883.5	907.3	913.6
70°	737.2	718.5	735.4	753.6	756.8
72.5°	589.0	572.6	593.3	606.2	606.6
75°	445.6	435.5	459.9	465.9	468.1
77.5°	315.3	314.2	332.6	339.1	342.2
80°	203.8	210.4	223.3	233.3	234.5
82.5°	115.4	123.2	136.5	155.9	163.5
85°	53.4	61.6	78.6	95.5	102.7
87.5°	18.0	24.1	33.2	36.1	34.3
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	16.68	18.26	17.04	18.57	18.89	16.76	18.34	17.12	18.65	18.97
	3H	18.15	19.57	18.53	19.90	20.26	18.28	19.71	18.66	20.03	20.39
	4H	18.58	19.92	18.98	20.27	20.64	18.74	20.08	19.14	20.43	20.80
	6H	18.79	20.03	19.20	20.40	20.79	19.00	20.23	19.41	20.60	20.99
	8H	18.82	20.00	19.25	20.39	20.79	19.06	20.24	19.49	20.63	21.03
	12H	18.82	19.95	19.25	20.33	20.76	19.10	20.23	19.53	20.61	21.04
4H	2H	17.22	18.55	17.62	18.90	19.28	17.28	18.62	17.68	18.97	19.35
	3H	18.87	19.98	19.28	20.38	20.78	19.00	20.11	19.41	20.51	20.91
	4H	19.39	20.39	19.82	20.80	21.24	19.56	20.56	19.99	20.97	21.41
	6H	19.68	20.55	20.14	20.99	21.45	19.90	20.77	20.36	21.21	21.67
	8H	19.73	20.54	20.19	20.99	21.45	19.99	20.81	20.45	21.25	21.72
	12H	19.74	20.47	20.22	20.95	21.42	20.06	20.79	20.54	21.27	21.74
8H	4H	19.58	20.40	20.05	20.84	21.31	19.74	20.55	20.20	21.00	21.46
	6H	19.94	20.61	20.43	21.10	21.58	20.15	20.82	20.65	21.31	21.79
	8H	20.01	20.62	20.53	21.13	21.61	20.29	20.89	20.80	21.40	21.88
	12H	20.05	20.59	20.56	21.08	21.64	20.40	20.94	20.91	21.43	21.99
12H	4H	19.59	20.32	20.07	20.79	21.27	19.74	20.47	20.22	20.94	21.41
	6H	19.95	20.55	20.46	21.06	21.55	20.15	20.76	20.66	21.26	21.75
	8H	20.06	20.59	20.57	21.08	21.64	20.33	20.86	20.83	21.35	21.91

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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