

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: P1499359

Luminaire Tested: MAE-G-4-120-2LO-STD-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499359
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-40-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

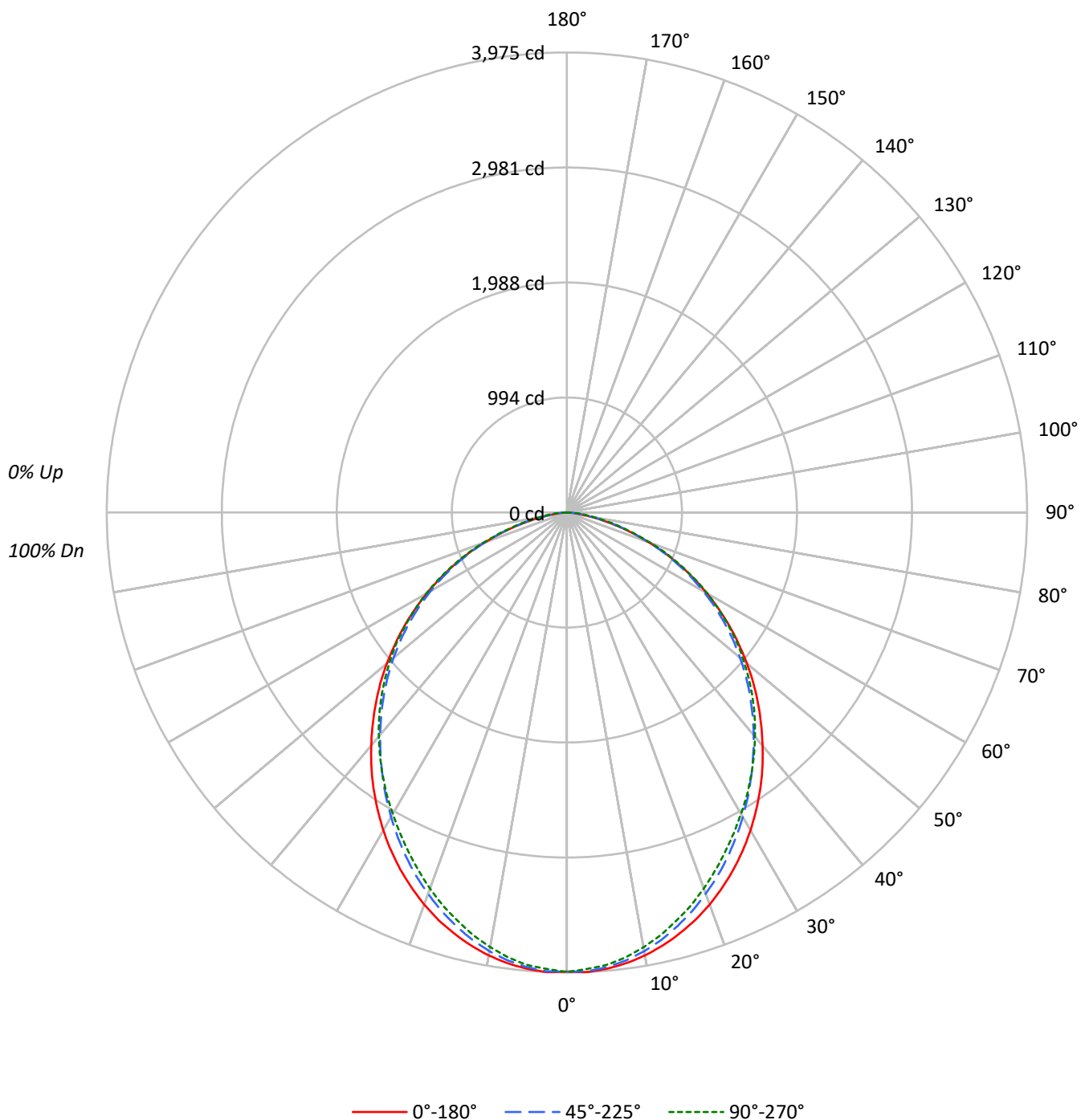
Lumens per Lamp: N/A
Luminaire Lumens: 9594.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	85	79	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	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	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	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5338	5338	5338
5°	5346	5327	5300
10°	5309	5259	5210
15°	5245	5151	5087
20°	5161	5020	4951
25°	5053	4876	4804
30°	4927	4720	4672
35°	4783	4560	4556
40°	4619	4408	4440
45°	4442	4254	4318
50°	4250	4089	4170
55°	4027	3896	3995
60°	3759	3659	3778
65°	3423	3353	3463
70°	2961	2954	3040
75°	2366	2441	2485
80°	1613	1768	1855
85°	841	1241	1618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.9	3.9
10°-20°	1041.8	10.9
20°-30°	1518.9	15.8
30°-40°	1756.5	18.3
40°-50°	1748.5	18.2
50°-60°	1503.2	15.7
60°-70°	1053.8	11.0
70°-80°	499.1	5.2
80°-90°	99.4	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°	2933.5	30.6
0°-40°	4690.0	48.9
0°-60°	7941.7	82.8
0°-90°	9594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3968	3968	3968	3968	3968	
5°	3958	3945	3944	3918	3924	375
15°	3765	3738	3698	3651	3652	1061
25°	3404	3358	3284	3234	3236	1567
35°	2912	2851	2776	2760	2774	1820
45°	2335	2278	2236	2252	2269	1801
55°	1716	1670	1661	1689	1703	1533
65°	1075	1047	1053	1075	1088	1063
75°	455	445	470	476	478	490
85°	54	63	80	97	105	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3967.7	3967.7	3967.7	3967.7	3967.7
2.5°	3975.2	3964.5	3967.7	3947.7	3948.3
5°	3958.2	3945.4	3944.2	3918.3	3924.2
7.5°	3927.9	3912.1	3903.7	3873.7	3878.5
10°	3886.0	3865.7	3848.9	3811.4	3813.6
12.5°	3832.1	3808.2	3780.8	3736.9	3740.1
15°	3765.3	3737.5	3698.1	3650.6	3651.6
17.5°	3691.3	3659.9	3606.7	3555.7	3560.7
20°	3604.3	3568.6	3505.8	3453.0	3457.5
22.5°	3507.6	3466.5	3400.0	3346.8	3347.7
25°	3403.9	3357.8	3284.2	3234.3	3235.8
27.5°	3291.8	3240.2	3163.6	3117.5	3121.8
30°	3171.1	3116.2	3037.9	3000.1	3006.9
32.5°	3043.9	2986.8	2909.8	2882.9	2894.7
35°	2912.2	2851.2	2776.1	2760.5	2773.6
37.5°	2774.6	2714.4	2643.9	2639.1	2652.6
40°	2629.9	2571.9	2509.8	2512.4	2527.6
42.5°	2483.7	2427.3	2374.3	2384.6	2401.0
45°	2334.7	2278.1	2235.9	2251.9	2269.3
47.5°	2185.8	2129.4	2097.1	2117.7	2133.5
50°	2030.2	1978.1	1953.6	1977.8	1992.2
52.5°	1871.7	1823.3	1808.5	1835.6	1855.3
55°	1716.5	1670.2	1660.9	1688.9	1703.0
57.5°	1556.4	1517.3	1512.8	1539.1	1553.9
60°	1396.9	1360.4	1359.8	1387.9	1403.8
62.5°	1235.7	1202.6	1207.4	1234.0	1246.6
65°	1075.2	1047.4	1053.1	1075.2	1087.7
67.5°	916.1	891.1	902.2	926.6	932.9
70°	752.8	733.7	751.0	769.5	772.7
72.5°	601.5	584.8	605.8	619.0	619.4
75°	455.1	444.7	469.6	475.8	478.0
77.5°	322.0	320.9	339.7	346.3	349.5
80°	208.2	214.9	228.2	238.3	239.4
82.5°	117.9	125.8	139.4	159.2	167.0
85°	54.5	62.9	80.4	97.4	104.8
87.5°	18.4	24.6	33.9	36.8	35.1
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	16.75	18.33	17.11	18.65	18.96	16.83	18.41	17.19	18.73	19.04
	3H	18.22	19.65	18.60	19.97	20.33	18.35	19.78	18.73	20.11	20.47
	4H	18.65	19.99	19.05	20.34	20.72	18.81	20.15	19.21	20.50	20.88
	6H	18.87	20.10	19.28	20.47	20.86	19.07	20.31	19.48	20.67	21.06
	8H	18.90	20.08	19.32	20.46	20.86	19.13	20.31	19.56	20.70	21.10
	12H	18.90	20.03	19.33	20.41	20.84	19.18	20.31	19.61	20.69	21.12
4H	2H	17.29	18.63	17.69	18.98	19.35	17.36	18.69	17.75	19.04	19.42
	3H	18.94	20.06	19.35	20.45	20.85	19.07	20.18	19.48	20.58	20.98
	4H	19.46	20.46	19.89	20.88	21.31	19.63	20.63	20.06	21.05	21.48
	6H	19.75	20.63	20.21	21.07	21.52	19.97	20.85	20.43	21.29	21.74
	8H	19.80	20.62	20.26	21.06	21.52	20.07	20.88	20.53	21.32	21.79
	12H	19.82	20.55	20.30	21.02	21.49	20.14	20.87	20.62	21.34	21.81
8H	4H	19.66	20.47	20.12	20.92	21.38	19.81	20.63	20.27	21.07	21.54
	6H	20.01	20.68	20.51	21.17	21.65	20.22	20.90	20.72	21.39	21.86
	8H	20.09	20.69	20.60	21.20	21.69	20.36	20.96	20.87	21.47	21.96
	12H	20.13	20.66	20.64	21.15	21.71	20.48	21.01	20.99	21.50	22.06
12H	4H	19.66	20.39	20.14	20.87	21.34	19.81	20.54	20.29	21.02	21.49
	6H	20.02	20.62	20.53	21.13	21.62	20.22	20.83	20.74	21.34	21.82
	8H	20.13	20.66	20.64	21.15	21.72	20.40	20.93	20.91	21.42	21.99

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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