

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: P1499431

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499431
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-4-120-2STD-LO-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

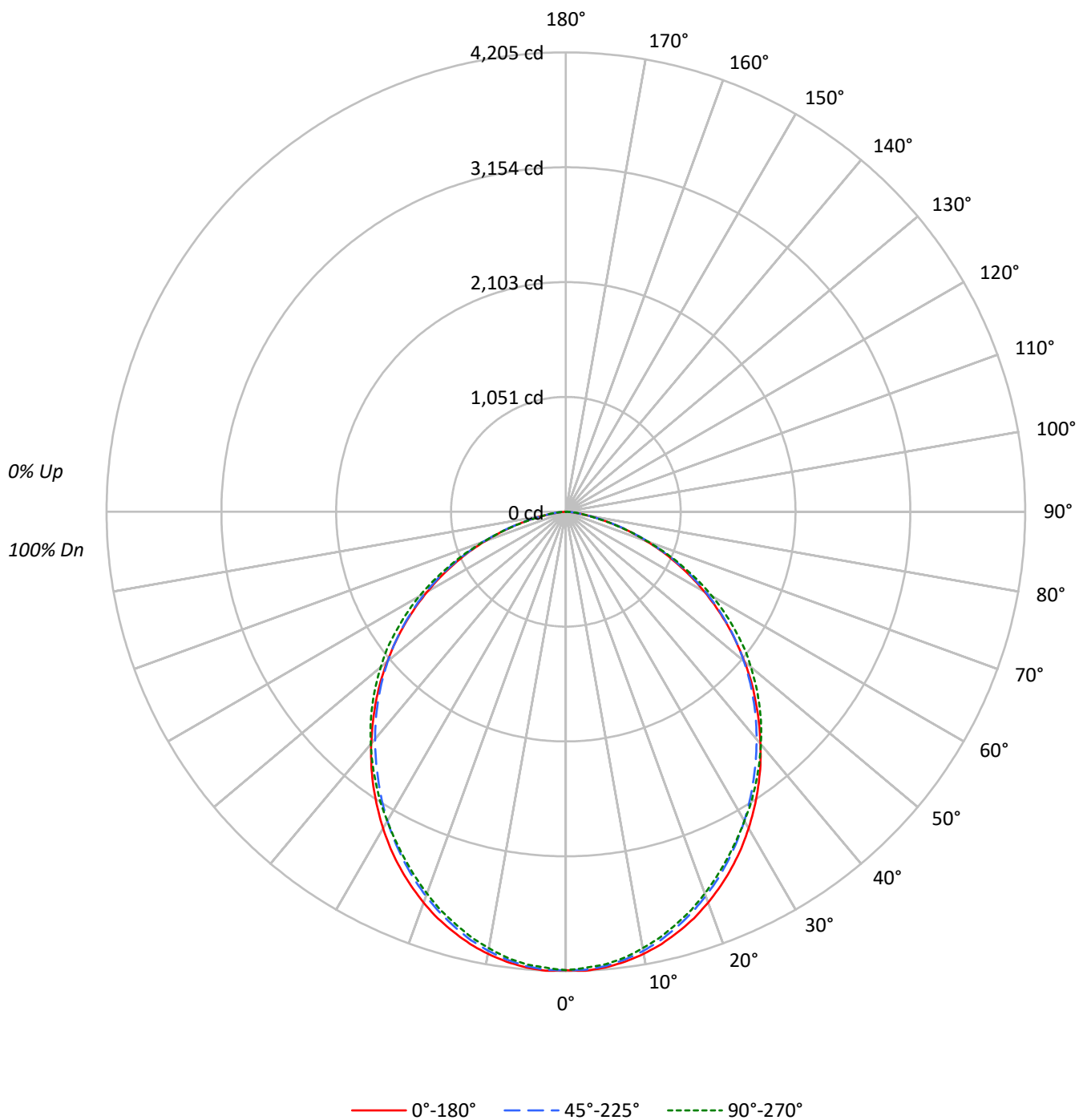
Lumens per Lamp: N/A
Luminaire Lumens: 10278.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	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	54	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°	5646	5646	5646
5°	5655	5638	5616
10°	5615	5577	5543
15°	5545	5480	5442
20°	5453	5361	5326
25°	5337	5225	5195
30°	5199	5076	5079
35°	5044	4919	4980
40°	4867	4771	4878
45°	4677	4620	4771
50°	4470	4453	4629
55°	4232	4253	4441
60°	3946	4000	4175
65°	3583	3656	3745
70°	3088	3165	3166
75°	2455	2517	2415
80°	1652	1677	1600
85°	837	1062	1318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4771 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.9	3.8
10°-20°	1108.4	10.8
20°-30°	1625.1	15.8
30°-40°	1889.8	18.4
40°-50°	1891.4	18.4
50°-60°	1632.3	15.9
60°-70°	1134.3	11.0
70°-80°	511.6	5.0
80°-90°	90.1	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°	3128.4	30.4
0°-40°	5018.2	48.8
0°-60°	8542.0	83.1
0°-90°	10278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4196	4196	4196	4196	4196	
5°	4187	4170	4174	4153	4158	397
15°	3980	3955	3934	3903	3907	1122
25°	3595	3561	3519	3491	3499	1655
35°	3071	3030	2995	3007	3032	1919
45°	2458	2424	2428	2475	2507	1896
55°	1804	1781	1813	1870	1893	1611
65°	1125	1120	1148	1165	1176	1114
75°	472	472	484	470	465	508
85°	54	59	69	81	85	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4196.4	4196.4	4196.4	4196.4	4196.4
2.5°	4205.4	4189.4	4196.4	4180.6	4177.8
5°	4186.7	4170.0	4174.2	4153.3	4158.1
7.5°	4154.5	4136.1	4135.2	4112.3	4117.3
10°	4109.5	4087.6	4081.7	4054.1	4057.1
12.5°	4052.0	4028.3	4015.8	3984.7	3990.0
15°	3980.4	3954.6	3934.3	3903.1	3906.8
17.5°	3901.7	3874.9	3844.3	3811.6	3820.1
20°	3808.1	3779.9	3743.9	3709.8	3719.4
22.5°	3704.9	3673.4	3636.8	3603.7	3610.8
25°	3594.8	3560.9	3519.3	3490.9	3499.1
27.5°	3475.1	3437.4	3396.5	3372.6	3384.6
30°	3346.4	3307.5	3267.1	3253.1	3269.2
32.5°	3210.8	3172.0	3133.8	3133.3	3155.9
35°	3071.0	3029.7	2994.6	3007.1	3032.1
37.5°	2925.7	2885.3	2856.9	2881.8	2907.9
40°	2771.1	2734.8	2716.5	2749.9	2777.5
42.5°	2616.2	2581.9	2573.9	2615.9	2645.8
45°	2458.0	2424.5	2427.8	2475.4	2507.1
47.5°	2301.5	2267.0	2280.1	2332.8	2361.4
50°	2135.5	2106.6	2127.4	2182.7	2211.4
52.5°	1969.4	1942.9	1971.7	2029.9	2063.2
55°	1804.1	1780.8	1812.9	1869.8	1893.2
57.5°	1634.7	1618.5	1652.8	1702.2	1724.6
60°	1466.3	1451.9	1486.6	1531.0	1551.4
62.5°	1295.9	1284.7	1319.2	1353.3	1364.4
65°	1125.3	1119.9	1148.3	1165.3	1176.3
67.5°	958.5	952.3	978.2	991.4	993.7
70°	785.0	784.5	804.5	808.4	804.9
72.5°	626.3	623.8	638.3	633.5	626.8
75°	472.2	472.4	484.2	470.1	464.6
77.5°	332.2	338.1	338.6	326.0	321.4
80°	213.2	221.2	216.4	210.6	206.5
82.5°	119.0	124.5	123.8	135.1	139.7
85°	54.2	59.1	68.8	80.7	85.4
87.5°	18.4	22.5	28.7	30.5	28.8
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	16.94	18.52	17.30	18.84	19.15	17.29	18.88	17.66	19.19	19.51
	3H	18.40	19.82	18.77	20.15	20.51	18.71	20.13	19.09	20.46	20.82
	4H	18.82	20.15	19.21	20.50	20.88	19.08	20.42	19.48	20.77	21.15
	6H	19.02	20.25	19.43	20.62	21.01	19.25	20.49	19.66	20.85	21.24
	8H	19.04	20.22	19.47	20.61	21.01	19.28	20.46	19.71	20.85	21.25
	12H	19.04	20.17	19.47	20.55	20.98	19.30	20.42	19.73	20.80	21.23
4H	2H	17.51	18.85	17.91	19.20	19.58	17.80	19.14	18.20	19.49	19.86
	3H	19.15	20.26	19.56	20.65	21.06	19.40	20.51	19.81	20.91	21.31
	4H	19.65	20.65	20.08	21.06	21.50	19.86	20.86	20.29	21.27	21.71
	6H	19.93	20.80	20.38	21.24	21.70	20.10	20.97	20.55	21.41	21.87
	8H	19.97	20.78	20.43	21.22	21.69	20.14	20.96	20.61	21.40	21.87
	12H	19.98	20.70	20.46	21.18	21.65	20.18	20.90	20.66	21.38	21.85
8H	4H	19.83	20.64	20.29	21.08	21.55	20.02	20.83	20.48	21.28	21.74
	6H	20.16	20.83	20.65	21.32	21.79	20.31	20.98	20.80	21.47	21.94
	8H	20.22	20.82	20.73	21.33	21.82	20.38	20.98	20.89	21.49	21.98
	12H	20.25	20.78	20.76	21.27	21.84	20.45	20.98	20.96	21.47	22.03
12H	4H	19.82	20.55	20.31	21.03	21.50	20.02	20.74	20.50	21.22	21.69
	6H	20.15	20.75	20.66	21.26	21.75	20.30	20.90	20.81	21.41	21.90
	8H	20.25	20.78	20.76	21.27	21.83	20.41	20.94	20.92	21.43	21.99