

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: P1499437

Luminaire Tested: MAE-G-4-120-2STD-LO-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499437
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-50-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

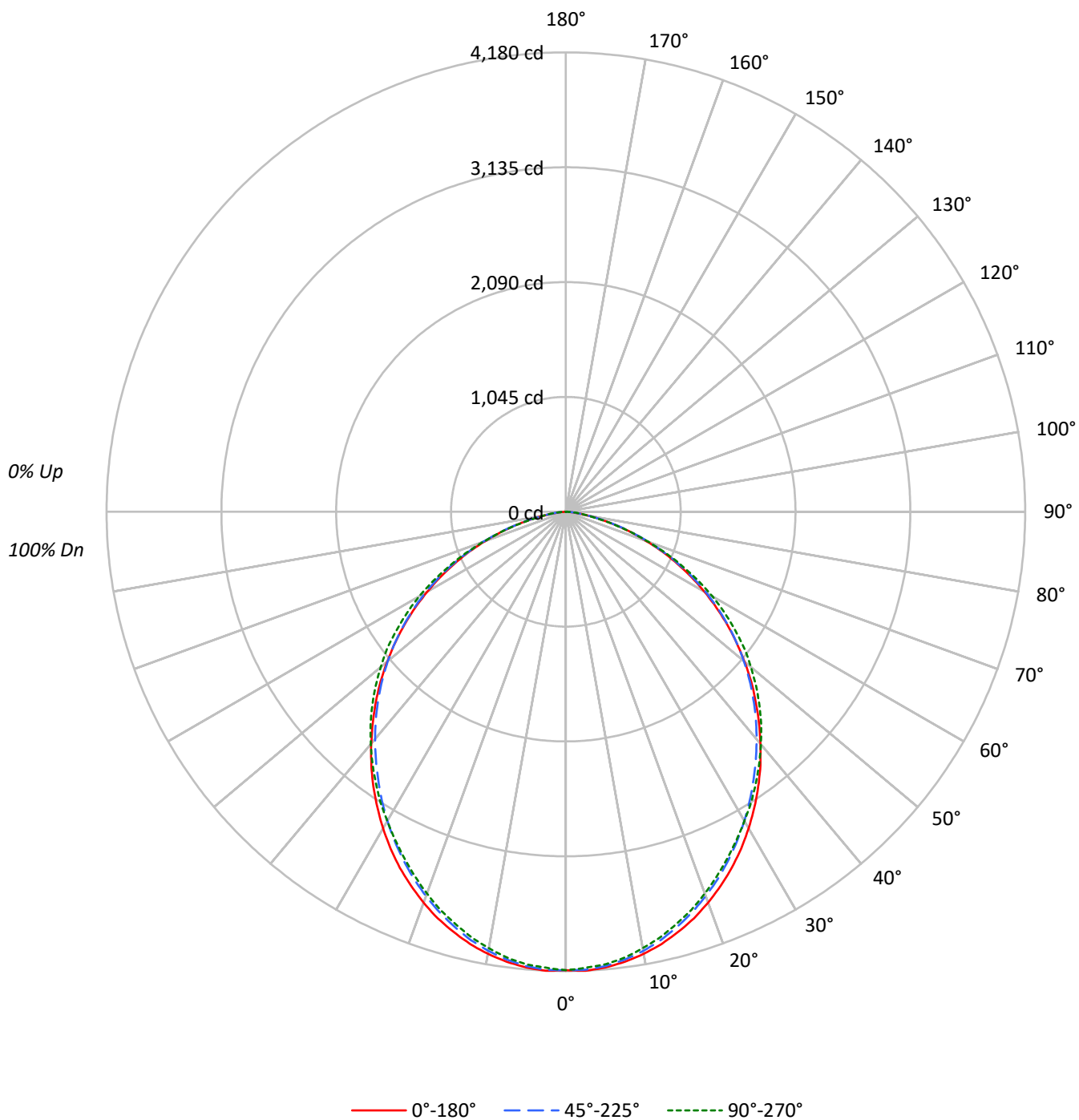
Lumens per Lamp: N/A
Luminaire Lumens: 10217.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5613	5613	5613
5°	5621	5605	5583
10°	5581	5544	5510
15°	5511	5448	5410
20°	5420	5329	5294
25°	5305	5194	5164
30°	5168	5046	5049
35°	5014	4890	4951
40°	4838	4743	4849
45°	4650	4592	4742
50°	4444	4427	4602
55°	4207	4227	4415
60°	3922	3977	4150
65°	3562	3634	3723
70°	3070	3146	3148
75°	2440	2503	2401
80°	1642	1667	1590
85°	831	1056	1311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4742 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.6	3.8
10°-20°	1101.8	10.8
20°-30°	1615.4	15.8
30°-40°	1878.6	18.4
40°-50°	1880.2	18.4
50°-60°	1622.6	15.9
60°-70°	1127.6	11.0
70°-80°	508.6	5.0
80°-90°	89.6	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°	3109.8	30.4
0°-40°	4988.4	48.8
0°-60°	8491.2	83.1
0°-90°	10217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4172	4172	4172	4172	4172	
5°	4162	4145	4150	4129	4133	395
15°	3957	3931	3911	3880	3884	1115
25°	3574	3540	3498	3470	3478	1645
35°	3053	3012	2977	2989	3014	1908
45°	2444	2410	2413	2461	2492	1885
55°	1793	1770	1802	1859	1882	1602
65°	1119	1113	1141	1158	1169	1107
75°	469	470	481	467	462	505
85°	54	59	68	80	85	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4171.5	4171.5	4171.5	4171.5	4171.5
2.5°	4180.5	4164.6	4171.5	4155.8	4153.0
5°	4161.9	4145.3	4149.6	4128.6	4133.4
7.5°	4129.8	4111.5	4110.8	4088.0	4092.9
10°	4085.1	4063.4	4057.5	4030.0	4032.9
12.5°	4027.9	4004.4	3992.0	3961.0	3966.4
15°	3956.7	3931.1	3911.0	3879.9	3883.6
17.5°	3878.6	3851.9	3821.5	3789.0	3797.4
20°	3785.6	3757.4	3721.7	3687.7	3697.4
22.5°	3683.0	3651.6	3615.2	3582.4	3589.3
25°	3573.5	3539.8	3498.4	3470.2	3478.3
27.5°	3454.5	3417.0	3376.4	3352.6	3364.6
30°	3326.5	3287.9	3247.7	3233.7	3249.8
32.5°	3191.8	3153.2	3115.1	3114.7	3137.2
35°	3052.8	3011.8	2976.8	2989.3	3014.0
37.5°	2908.3	2868.2	2839.9	2864.7	2890.6
40°	2754.6	2718.5	2700.4	2733.5	2761.0
42.5°	2600.6	2566.6	2558.6	2600.4	2630.1
45°	2443.5	2410.1	2413.3	2460.6	2492.3
47.5°	2287.9	2253.6	2266.6	2319.0	2347.3
50°	2122.9	2094.1	2114.7	2169.7	2198.3
52.5°	1957.8	1931.4	1959.9	2017.9	2050.9
55°	1793.4	1770.2	1802.1	1858.7	1882.0
57.5°	1625.1	1608.9	1643.0	1692.1	1714.2
60°	1457.6	1443.3	1477.8	1521.9	1542.1
62.5°	1288.2	1277.1	1311.4	1345.3	1356.3
65°	1118.7	1113.2	1141.4	1158.3	1169.3
67.5°	952.8	946.7	972.4	985.5	987.8
70°	780.3	779.8	799.8	803.6	800.1
72.5°	622.6	620.2	634.6	629.8	623.1
75°	469.4	469.6	481.4	467.3	461.9
77.5°	330.2	336.1	336.6	324.1	319.5
80°	211.9	219.9	215.1	209.3	205.2
82.5°	118.3	123.8	123.1	134.4	138.9
85°	53.8	58.8	68.4	80.3	84.9
87.5°	18.2	22.5	28.5	30.3	28.5
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	16.92	18.50	17.28	18.82	19.13	17.27	18.86	17.64	19.17	19.48
	3H	18.38	19.80	18.75	20.13	20.49	18.69	20.11	19.07	20.44	20.80
	4H	18.80	20.13	19.19	20.48	20.86	19.06	20.40	19.46	20.75	21.13
	6H	19.00	20.23	19.41	20.60	20.99	19.23	20.47	19.64	20.83	21.22
	8H	19.02	20.20	19.45	20.59	20.99	19.26	20.44	19.69	20.83	21.23
	12H	19.02	20.15	19.45	20.53	20.96	19.27	20.40	19.70	20.78	21.21
4H	2H	17.49	18.83	17.89	19.18	19.56	17.78	19.12	18.18	19.47	19.84
	3H	19.12	20.24	19.53	20.63	21.03	19.38	20.49	19.79	20.89	21.29
	4H	19.63	20.63	20.06	21.04	21.48	19.84	20.84	20.27	21.25	21.69
	6H	19.91	20.78	20.36	21.22	21.68	20.08	20.95	20.53	21.39	21.85
	8H	19.95	20.76	20.41	21.20	21.67	20.12	20.93	20.59	21.38	21.84
	12H	19.96	20.68	20.44	21.16	21.63	20.16	20.88	20.64	21.36	21.83
8H	4H	19.81	20.62	20.27	21.06	21.53	20.00	20.81	20.46	21.25	21.72
	6H	20.14	20.81	20.63	21.30	21.77	20.29	20.96	20.78	21.45	21.92
	8H	20.20	20.80	20.71	21.31	21.80	20.36	20.96	20.87	21.47	21.96
	12H	20.23	20.76	20.74	21.25	21.82	20.43	20.96	20.94	21.45	22.01
12H	4H	19.80	20.53	20.29	21.01	21.48	20.00	20.72	20.48	21.20	21.67
	6H	20.13	20.73	20.64	21.24	21.73	20.28	20.88	20.79	21.39	21.88
	8H	20.23	20.76	20.74	21.25	21.81	20.39	20.92	20.90	21.41	21.97

END OF REPORT