

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: P1499742

Luminaire Tested: MAE-G-4-120-3STD-STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499742
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-4-120-3STD-STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

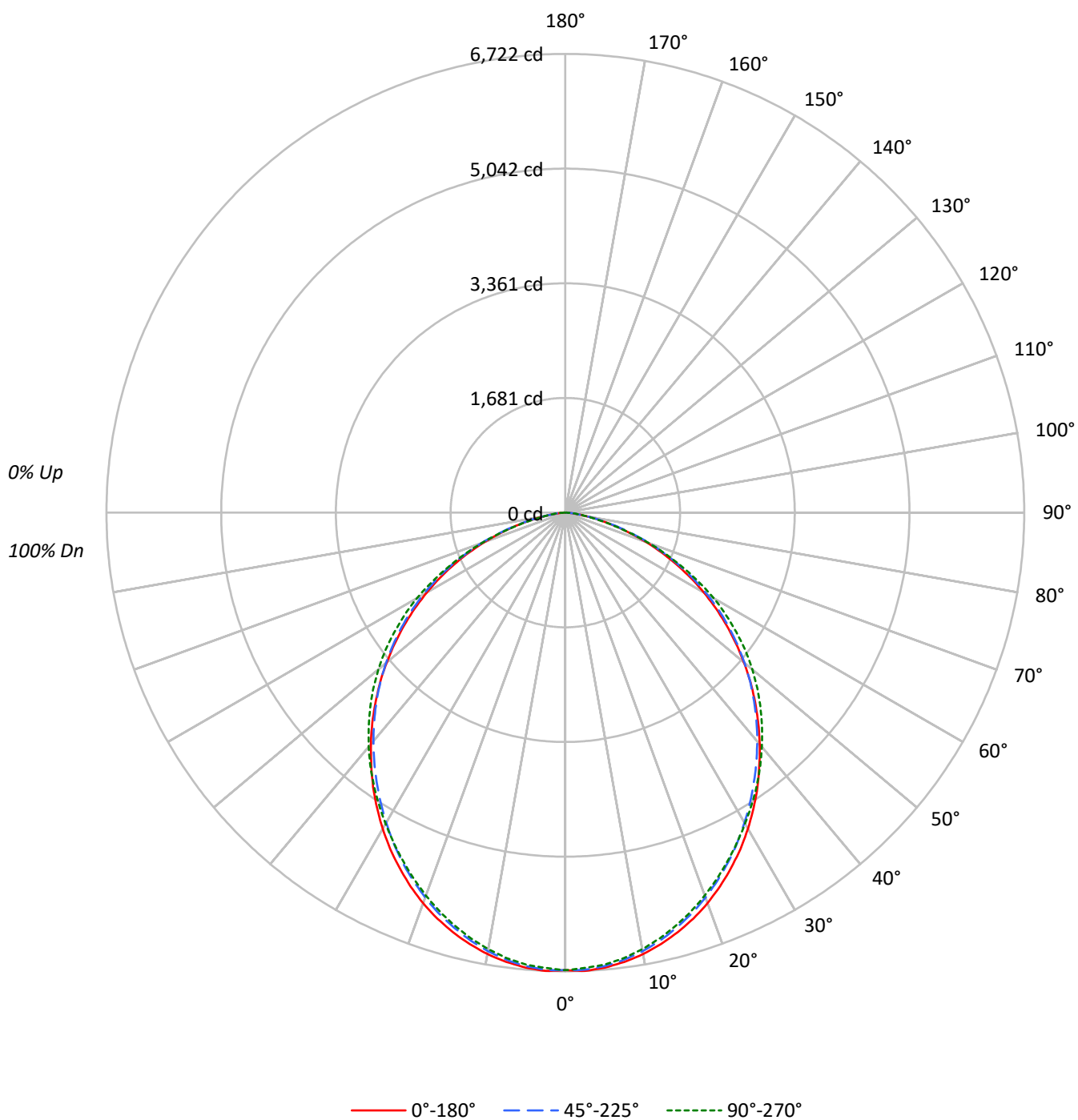
Lumens per Lamp: N/A
Luminaire Lumens: 16505.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 170.9
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°	9021	9021	9021
5°	9038	9009	8979
10°	8975	8916	8873
15°	8866	8771	8725
20°	8720	8595	8550
25°	8529	8387	8357
30°	8311	8153	8179
35°	8063	7913	8028
40°	7782	7680	7868
45°	7478	7442	7690
50°	7146	7172	7481
55°	6771	6859	7174
60°	6306	6459	6763
65°	5728	5916	6046
70°	4933	5137	5093
75°	3919	4075	3799
80°	2637	2663	2463
85°	1354	1663	2016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7690 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.3	3.8
10°-20°	1774.1	10.7
20°-30°	2605.8	15.8
30°-40°	3034.2	18.4
40°-50°	3041.3	18.4
50°-60°	2628.5	15.9
60°-70°	1828.6	11.1
70°-80°	819.8	5.0
80°-90°	141.4	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°	5011.1	30.4
0°-40°	8045.3	48.7
0°-60°	13715.1	83.1
0°-90°	16505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6705	6705	6705	6705	6705	
5°	6691	6663	6670	6639	6648	635
15°	6365	6324	6297	6254	6264	1794
25°	5745	5695	5650	5607	5629	2645
35°	4909	4848	4818	4840	4887	3067
45°	3930	3887	3911	3990	4042	3032
55°	2887	2856	2924	3023	3058	2577
65°	1799	1795	1858	1892	1899	1778
75°	754	761	784	753	731	810
85°	88	94	108	124	131	130
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6704.9	6704.9	6704.9	6704.9	6704.9
2.5°	6721.6	6693.7	6704.9	6681.0	6676.1
5°	6691.4	6662.7	6670.0	6639.4	6648.2
7.5°	6639.5	6609.0	6608.7	6575.3	6583.5
10°	6569.0	6533.3	6525.6	6487.7	6494.1
12.5°	6475.2	6438.3	6421.8	6378.6	6389.4
15°	6364.9	6324.3	6296.6	6254.1	6263.9
17.5°	6237.1	6192.6	6159.1	6109.6	6125.6
20°	6090.4	6042.6	6002.5	5949.9	5971.1
22.5°	5926.2	5875.9	5830.0	5783.1	5804.3
25°	5745.3	5694.6	5649.6	5607.0	5629.3
27.5°	5555.1	5498.6	5453.5	5423.2	5448.0
30°	5349.3	5290.9	5247.5	5229.1	5264.2
32.5°	5131.9	5074.3	5036.2	5037.9	5078.4
35°	4908.8	4848.0	4817.7	4840.1	4887.4
37.5°	4668.7	4617.9	4597.9	4640.6	4688.7
40°	4430.8	4377.8	4372.8	4429.0	4479.5
42.5°	4184.8	4138.2	4144.5	4216.6	4263.6
45°	3930.1	3887.0	3911.0	3990.2	4041.6
47.5°	3679.9	3635.6	3673.0	3759.5	3815.0
50°	3413.9	3378.0	3426.4	3523.3	3574.1
52.5°	3149.5	3115.2	3177.0	3279.0	3328.1
55°	2886.6	2855.6	2924.1	3023.2	3058.4
57.5°	2614.4	2597.0	2667.8	2754.6	2791.4
60°	2343.5	2328.8	2400.1	2480.3	2513.2
62.5°	2072.3	2064.2	2131.9	2196.6	2207.4
65°	1799.2	1794.9	1858.1	1892.3	1898.9
67.5°	1523.2	1526.6	1583.8	1600.9	1599.8
70°	1254.0	1254.0	1305.8	1309.6	1294.6
72.5°	992.4	1000.1	1033.1	1024.1	1000.3
75°	753.8	760.7	783.8	753.4	730.7
77.5°	531.9	537.7	547.1	513.8	499.6
80°	340.3	350.8	343.7	327.6	317.9
82.5°	190.0	200.7	194.4	208.9	215.4
85°	87.7	93.9	107.7	124.0	130.6
87.5°	29.9	35.5	44.1	47.1	43.9
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	18.57	20.16	18.94	20.47	20.79	18.99	20.58	19.36	20.89	21.21
	3H	20.02	21.44	20.40	21.77	22.13	20.40	21.82	20.78	22.15	22.51
	4H	20.44	21.78	20.84	22.12	22.50	20.76	22.10	21.16	22.45	22.83
	6H	20.64	21.87	21.05	22.24	22.63	20.91	22.15	21.33	22.52	22.91
	8H	20.66	21.84	21.09	22.23	22.63	20.94	22.12	21.36	22.51	22.91
	12H	20.66	21.79	21.09	22.17	22.60	20.95	22.08	21.38	22.46	22.89
4H	2H	19.16	20.50	19.56	20.85	21.22	19.50	20.84	19.90	21.19	21.56
	3H	20.78	21.89	21.19	22.29	22.69	21.09	22.20	21.50	22.60	23.00
	4H	21.29	22.29	21.72	22.70	23.14	21.54	22.54	21.97	22.95	23.39
	6H	21.56	22.43	22.01	22.87	23.33	21.76	22.63	22.21	23.07	23.53
	8H	21.60	22.41	22.06	22.85	23.32	21.80	22.61	22.26	23.05	23.52
	12H	21.61	22.33	22.09	22.81	23.28	21.83	22.55	22.31	23.03	23.50
8H	4H	21.47	22.28	21.93	22.72	23.19	21.70	22.51	22.16	22.95	23.42
	6H	21.79	22.46	22.29	22.95	23.43	21.96	22.63	22.46	23.12	23.60
	8H	21.86	22.46	22.37	22.96	23.45	22.03	22.63	22.54	23.14	23.63
	12H	21.89	22.42	22.40	22.91	23.47	22.09	22.62	22.60	23.11	23.67
12H	4H	21.46	22.19	21.94	22.67	23.14	21.69	22.42	22.18	22.90	23.37
	6H	21.78	22.39	22.30	22.89	23.38	21.96	22.56	22.47	23.07	23.55
	8H	21.88	22.41	22.39	22.90	23.46	22.05	22.58	22.56	23.08	23.64

END OF REPORT