

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: P1499724

Luminaire Tested: MAE-G-4-120-3STD-LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499724
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-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

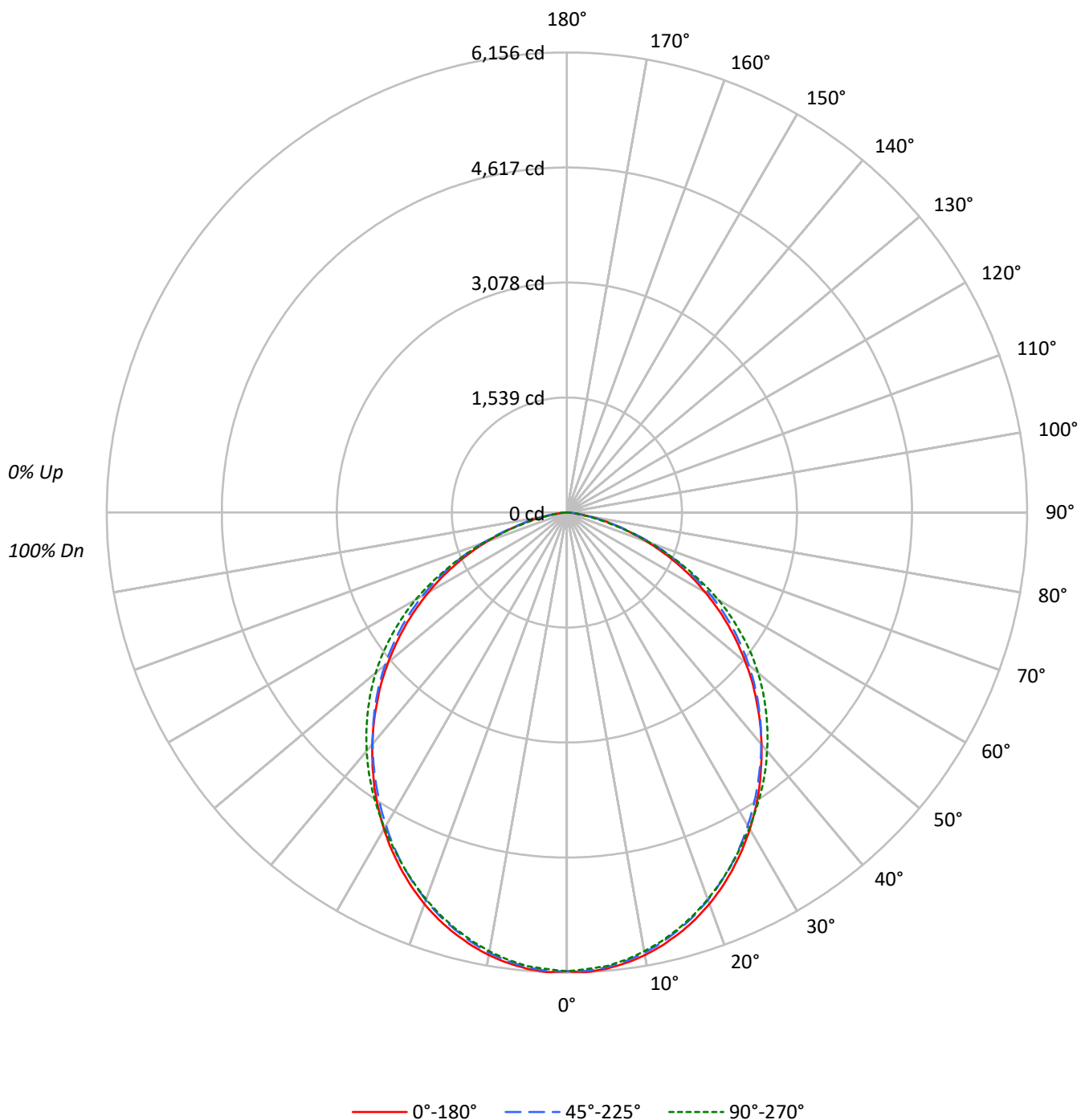
Lumens per Lamp: N/A
Luminaire Lumens: 15198.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 150.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	93	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8260	8260	8260
5°	8276	8251	8229
10°	8218	8173	8145
15°	8117	8052	8029
20°	7983	7903	7885
25°	7806	7724	7725
30°	7604	7519	7576
35°	7374	7308	7453
40°	7116	7102	7319
45°	6835	6890	7169
50°	6529	6648	6988
55°	6185	6365	6705
60°	5757	5997	6307
65°	5223	5488	5590
70°	4491	4734	4637
75°	3560	3697	3346
80°	2383	2322	2032
85°	1209	1369	1606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.4	3.8
10°-20°	1628.6	10.7
20°-30°	2397.9	15.8
30°-40°	2798.6	18.4
40°-50°	2811.5	18.5
50°-60°	2433.9	16.0
60°-70°	1687.5	11.1
70°-80°	741.2	4.9
80°-90°	120.4	0.8
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°	4605.0	30.3
0°-40°	7403.6	48.7
0°-60°	12649.0	83.2
0°-90°	15198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6139	6139	6139	6139	6139	
5°	6128	6099	6109	6085	6093	581
15°	5827	5792	5780	5753	5764	1642
25°	5258	5220	5203	5178	5204	2421
35°	4490	4448	4449	4487	4537	2805
45°	3592	3569	3621	3712	3767	2772
55°	2637	2624	2713	2821	2858	2354
65°	1641	1651	1724	1752	1756	1622
75°	685	698	711	670	644	736
85°	78	82	89	100	104	117
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6139.4	6139.4	6139.4	6139.4	6139.4
2.5°	6155.7	6127.2	6139.4	6121.0	6114.3
5°	6127.6	6099.4	6109.3	6085.3	6092.6
7.5°	6079.9	6050.9	6055.5	6030.4	6037.8
10°	6015.0	5982.0	5982.3	5955.2	5961.5
12.5°	5928.7	5896.0	5891.0	5861.0	5872.2
15°	5827.4	5792.5	5780.2	5753.2	5764.1
17.5°	5710.0	5672.9	5658.7	5626.4	5643.1
20°	5575.0	5536.6	5519.5	5484.5	5507.2
22.5°	5424.2	5385.2	5364.3	5335.6	5359.5
25°	5257.9	5220.5	5202.7	5178.3	5203.5
27.5°	5083.2	5041.7	5026.0	5013.7	5041.1
30°	4894.1	4852.3	4839.4	4838.4	4876.5
32.5°	4694.2	4654.7	4647.3	4665.8	4709.4
35°	4489.6	4448.3	4449.0	4487.1	4537.4
37.5°	4269.2	4237.7	4248.9	4306.2	4357.7
40°	4051.3	4018.2	4043.7	4113.6	4167.3
42.5°	3825.9	3799.2	3835.0	3919.9	3970.4
45°	3592.3	3569.4	3621.2	3712.3	3767.4
47.5°	3363.8	3338.9	3402.6	3500.5	3559.3
50°	3119.2	3102.8	3176.1	3283.2	3338.2
52.5°	2878.2	2862.0	2946.3	3058.2	3110.1
55°	2636.7	2624.2	2713.3	2820.9	2858.2
57.5°	2387.3	2387.1	2476.5	2569.4	2607.1
60°	2139.3	2140.9	2228.6	2311.5	2343.7
62.5°	1891.2	1898.6	1979.2	2042.8	2050.8
65°	1640.7	1651.1	1723.8	1751.9	1755.7
67.5°	1387.9	1404.1	1466.2	1474.0	1470.0
70°	1141.6	1153.4	1203.4	1197.3	1178.7
72.5°	902.3	919.2	945.6	926.0	898.9
75°	684.8	698.3	711.1	670.3	643.7
77.5°	482.2	491.3	489.2	445.9	427.6
80°	307.5	317.3	299.7	274.7	262.3
82.5°	170.6	178.8	163.8	170.9	174.7
85°	78.3	81.6	88.7	99.8	104.0
87.5°	26.8	30.4	36.0	37.9	35.0
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	18.27	19.85	18.63	20.16	20.48	18.80	20.38	19.16	20.70	21.01
	3H	19.71	21.13	20.08	21.46	21.82	20.16	21.59	20.54	21.91	22.27
	4H	20.12	21.46	20.52	21.80	22.18	20.49	21.83	20.89	22.18	22.56
	6H	20.31	21.55	20.73	21.92	22.31	20.61	21.85	21.03	22.21	22.61
	8H	20.34	21.51	20.76	21.90	22.30	20.63	21.80	21.05	22.19	22.59
	12H	20.33	21.46	20.76	21.84	22.27	20.63	21.75	21.06	22.14	22.57
4H	2H	18.87	20.21	19.27	20.56	20.93	19.30	20.64	19.70	20.98	21.36
	3H	20.48	21.59	20.89	21.99	22.39	20.84	21.95	21.25	22.35	22.75
	4H	20.98	21.98	21.41	22.39	22.83	21.26	22.25	21.69	22.67	23.11
	6H	21.25	22.11	21.70	22.56	23.01	21.44	22.30	21.89	22.75	23.20
	8H	21.28	22.09	21.74	22.54	23.00	21.46	22.27	21.92	22.71	23.18
	12H	21.29	22.01	21.77	22.49	22.96	21.48	22.20	21.96	22.68	23.15
8H	4H	21.15	21.96	21.62	22.41	22.87	21.41	22.22	21.87	22.66	23.13
	6H	21.47	22.14	21.96	22.63	23.10	21.63	22.29	22.12	22.78	23.26
	8H	21.53	22.13	22.04	22.63	23.12	21.67	22.27	22.18	22.78	23.26
	12H	21.56	22.08	22.06	22.58	23.14	21.71	22.24	22.22	22.73	23.29
12H	4H	21.15	21.87	21.63	22.35	22.82	21.40	22.13	21.88	22.60	23.07
	6H	21.46	22.06	21.97	22.56	23.05	21.61	22.21	22.13	22.72	23.21
	8H	21.55	22.07	22.06	22.57	23.13	21.69	22.22	22.20	22.71	23.27