

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: P1499709

Luminaire Tested: MAE-G-4-120-3STD-LO-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499709
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-30
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

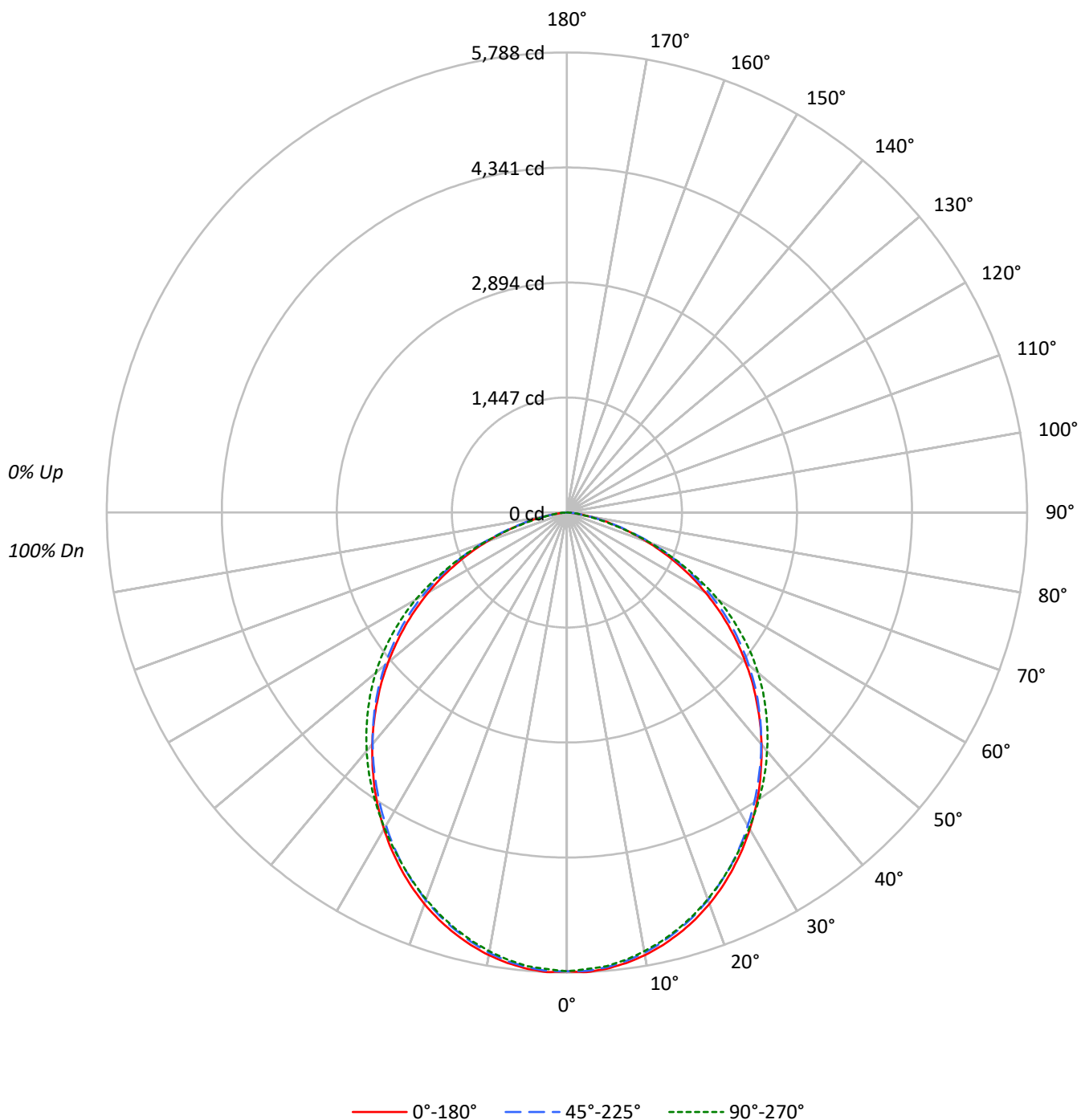
Lumens per Lamp: N/A
Luminaire Lumens: 14290.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	7767	7767	7767
5°	7782	7758	7737
10°	7727	7685	7658
15°	7632	7571	7549
20°	7506	7431	7414
25°	7339	7262	7263
30°	7149	7070	7124
35°	6934	6871	7008
40°	6691	6678	6882
45°	6427	6479	6740
50°	6139	6251	6570
55°	5816	5985	6304
60°	5413	5639	5930
65°	4911	5160	5256
70°	4223	4451	4360
75°	3347	3476	3147
80°	2239	2183	1912
85°	1136	1289	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.8	3.8
10°-20°	1531.3	10.7
20°-30°	2254.6	15.8
30°-40°	2631.4	18.4
40°-50°	2643.6	18.5
50°-60°	2288.5	16.0
60°-70°	1586.7	11.1
70°-80°	696.9	4.9
80°-90°	113.2	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°	4329.8	30.3
0°-40°	6961.2	48.7
0°-60°	11893.3	83.2
0°-90°	14290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5773	5773	5773	5773	5773	
5°	5762	5735	5744	5722	5729	547
15°	5479	5446	5435	5410	5420	1544
25°	4944	4909	4892	4869	4893	2276
35°	4221	4182	4183	4219	4266	2637
45°	3378	3356	3405	3491	3542	2606
55°	2479	2467	2551	2652	2687	2213
65°	1543	1552	1621	1647	1651	1525
75°	644	657	669	630	605	692
85°	74	77	84	94	98	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5772.6	5772.6	5772.6	5772.6	5772.6
2.5°	5787.9	5761.1	5772.6	5755.2	5749.0
5°	5761.6	5734.9	5744.3	5721.7	5728.6
7.5°	5716.7	5689.4	5693.7	5670.2	5677.1
10°	5655.6	5624.6	5624.9	5599.4	5605.4
12.5°	5574.4	5543.7	5539.0	5510.9	5521.4
15°	5479.3	5446.4	5434.9	5409.6	5419.7
17.5°	5368.9	5333.9	5320.7	5290.2	5306.0
20°	5242.0	5205.8	5189.7	5156.8	5178.2
22.5°	5100.1	5063.4	5043.8	5016.8	5039.3
25°	4943.7	4908.6	4891.9	4869.0	4892.6
27.5°	4779.4	4740.5	4725.7	4714.1	4740.0
30°	4601.7	4562.4	4550.3	4549.4	4585.3
32.5°	4413.8	4376.6	4369.6	4387.1	4428.0
35°	4221.3	4182.5	4183.1	4218.9	4266.3
37.5°	4014.2	3984.5	3995.1	4048.9	4097.3
40°	3809.3	3778.1	3802.0	3867.9	3918.2
42.5°	3597.4	3572.2	3605.9	3685.7	3733.2
45°	3377.7	3356.1	3404.9	3490.6	3542.3
47.5°	3162.8	3139.5	3199.3	3291.5	3346.6
50°	2932.8	2917.5	2986.4	3087.1	3138.8
52.5°	2706.3	2691.1	2770.3	2875.4	2924.3
55°	2479.2	2467.4	2551.2	2652.4	2687.4
57.5°	2244.6	2244.5	2328.5	2415.9	2451.4
60°	2011.5	2013.0	2095.4	2173.4	2203.7
62.5°	1778.1	1785.2	1861.0	1920.7	1928.2
65°	1542.6	1552.4	1620.8	1647.2	1650.8
67.5°	1305.0	1320.2	1378.7	1386.0	1382.2
70°	1073.4	1084.5	1131.5	1125.8	1108.3
72.5°	848.3	864.3	889.2	870.7	845.2
75°	643.9	656.6	668.6	630.2	605.3
77.5°	453.4	462.0	460.0	419.3	402.0
80°	289.0	298.4	281.8	258.3	246.7
82.5°	160.4	168.1	153.9	160.7	164.3
85°	73.6	76.7	83.5	93.9	97.8
87.5°	25.2	28.6	33.8	35.6	32.9
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	18.05	19.64	18.42	19.95	20.26	18.58	20.17	18.95	20.48	20.80
	3H	19.49	20.92	19.87	21.24	21.60	19.95	21.37	20.33	21.70	22.06
	4H	19.91	21.24	20.30	21.59	21.97	20.28	21.62	20.68	21.96	22.34
	6H	20.10	21.34	20.51	21.70	22.09	20.40	21.64	20.81	22.00	22.39
	8H	20.12	21.30	20.55	21.69	22.09	20.41	21.59	20.84	21.98	22.38
	12H	20.12	21.25	20.55	21.63	22.06	20.41	21.54	20.84	21.92	22.35
4H	2H	18.66	19.99	19.06	20.34	20.72	19.09	20.42	19.48	20.77	21.15
	3H	20.27	21.38	20.68	21.78	22.18	20.63	21.74	21.04	22.14	22.54
	4H	20.76	21.76	21.20	22.18	22.62	21.04	22.04	21.47	22.45	22.89
	6H	21.03	21.90	21.49	22.34	22.80	21.22	22.09	21.68	22.53	22.99
	8H	21.07	21.88	21.53	22.32	22.79	21.25	22.06	21.71	22.50	22.97
	12H	21.08	21.80	21.56	22.28	22.75	21.26	21.99	21.74	22.46	22.93
8H	4H	20.94	21.75	21.40	22.19	22.66	21.19	22.00	21.65	22.45	22.91
	6H	21.25	21.92	21.75	22.41	22.89	21.41	22.08	21.91	22.57	23.05
	8H	21.31	21.91	21.83	22.42	22.91	21.46	22.05	21.97	22.56	23.05
	12H	21.34	21.87	21.85	22.36	22.92	21.50	22.02	22.01	22.52	23.08
12H	4H	20.93	21.66	21.41	22.13	22.60	21.19	21.91	21.67	22.39	22.86
	6H	21.24	21.84	21.75	22.35	22.84	21.40	22.00	21.91	22.51	23.00
	8H	21.33	21.86	21.84	22.35	22.91	21.48	22.00	21.98	22.49	23.06