

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: P1499268

Luminaire Tested: MAE-G-4-120-2HI-STD-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499268
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-4-120-2HI-STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

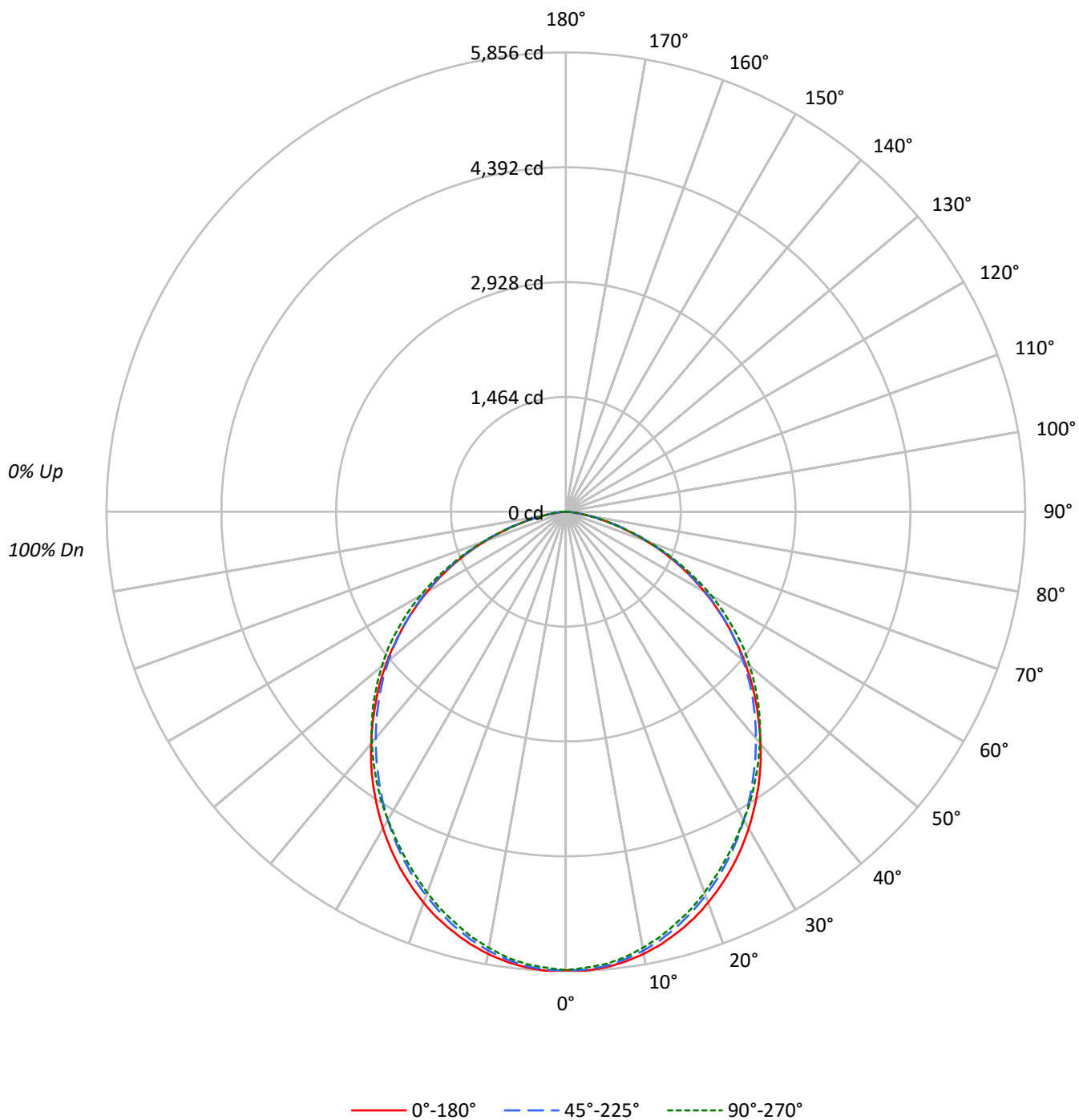
Lumens per Lamp: N/A
Luminaire Lumens: 14287.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
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°	7863	7863	7863
5°	7874	7850	7819
10°	7819	7763	7713
15°	7721	7625	7566
20°	7594	7455	7399
25°	7433	7262	7212
30°	7242	7052	7046
35°	7027	6831	6903
40°	6782	6623	6757
45°	6518	6409	6603
50°	6230	6176	6403
55°	5899	5896	6142
60°	5500	5545	5778
65°	4997	5069	5199
70°	4309	4400	4419
75°	3428	3518	3406
80°	2311	2373	2300
85°	1175	1528	1914

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6603 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.8	3.8
10°-20°	1542.2	10.8
20°-30°	2259.3	15.8
30°-40°	2625.4	18.4
40°-50°	2625.6	18.4
50°-60°	2264.7	15.9
60°-70°	1575.7	11.0
70°-80°	715.7	5.0
80°-90°	128.4	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°	4351.4	30.5
0°-40°	6976.8	48.8
0°-60°	11867.2	83.1
0°-90°	14287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5844	5844	5844	5844	5844	
5°	5830	5808	5812	5782	5789	553
15°	5543	5507	5474	5427	5432	1562
25°	5007	4957	4892	4848	4858	2305
35°	4278	4216	4159	4170	4203	2674
45°	3425	3373	3368	3429	3470	2642
55°	2515	2477	2514	2587	2618	2246
65°	1570	1557	1592	1617	1633	1553
75°	659	657	677	661	655	710
85°	76	84	99	117	124	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5843.7	5843.7	5843.7	5843.7	5843.7
2.5°	5856.1	5834.8	5843.7	5820.7	5817.4
5°	5830.2	5807.7	5812.4	5781.9	5788.9
7.5°	5785.3	5760.1	5757.3	5723.7	5730.7
10°	5722.8	5692.5	5681.9	5641.1	5645.1
12.5°	5642.9	5609.6	5588.9	5542.6	5549.7
15°	5543.2	5506.6	5474.2	5427.0	5431.6
17.5°	5433.9	5395.3	5347.5	5298.0	5309.0
20°	5304.0	5262.7	5206.5	5154.7	5167.3
22.5°	5160.3	5114.1	5056.6	5005.8	5014.3
25°	5007.1	4956.9	4891.8	4847.5	4857.7
27.5°	4840.6	4784.7	4719.9	4681.7	4697.0
30°	4661.5	4603.7	4539.0	4514.4	4535.0
32.5°	4473.1	4414.8	4352.9	4346.8	4376.3
35°	4278.4	4216.3	4158.6	4170.3	4202.9
37.5°	4075.9	4015.1	3966.4	3995.2	4029.2
40°	3861.0	3805.4	3770.7	3811.1	3847.3
42.5°	3645.3	3592.6	3572.0	3624.3	3663.5
45°	3425.2	3373.3	3368.3	3428.6	3470.3
47.5°	3207.1	3154.0	3163.0	3230.3	3267.7
50°	2976.2	2930.8	2950.4	3021.5	3059.0
52.5°	2744.6	2702.8	2734.1	2809.4	2853.3
55°	2514.6	2477.0	2513.5	2587.3	2618.3
57.5°	2278.8	2251.3	2291.3	2355.7	2385.5
60°	2044.0	2019.3	2060.7	2119.6	2147.2
62.5°	1806.8	1786.5	1828.8	1875.1	1890.9
65°	1569.5	1557.1	1592.2	1617.1	1632.9
67.5°	1336.9	1324.2	1357.5	1378.4	1382.4
70°	1095.3	1090.8	1118.4	1126.8	1123.3
72.5°	874.2	867.7	889.5	886.4	878.5
75°	659.4	657.4	676.8	661.2	655.1
77.5°	464.3	471.0	475.6	462.0	457.0
80°	298.3	309.2	306.3	301.4	296.8
82.5°	166.8	175.1	177.0	194.8	201.9
85°	76.1	83.7	99.0	116.8	124.0
87.5°	25.7	32.1	41.4	44.1	41.6
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	18.09	19.67	18.46	19.99	20.30	18.41	19.99	18.77	20.30	20.62
	3H	19.55	20.97	19.93	21.30	21.66	19.84	21.26	20.21	21.59	21.95
	4H	19.97	21.31	20.37	21.66	22.03	20.22	21.56	20.62	21.91	22.29
	6H	20.17	21.41	20.59	21.78	22.17	20.40	21.64	20.81	22.00	22.39
	8H	20.20	21.38	20.62	21.77	22.17	20.44	21.61	20.86	22.00	22.40
	12H	20.20	21.32	20.63	21.71	22.14	20.45	21.58	20.88	21.96	22.39
4H	2H	18.66	20.00	19.06	20.35	20.72	18.92	20.25	19.32	20.60	20.98
	3H	20.29	21.41	20.70	21.80	22.21	20.53	21.64	20.94	22.04	22.44
	4H	20.80	21.80	21.23	22.22	22.65	21.00	22.00	21.44	22.42	22.86
	6H	21.08	21.95	21.54	22.39	22.85	21.26	22.13	21.71	22.57	23.03
	8H	21.12	21.93	21.58	22.38	22.84	21.31	22.12	21.77	22.56	23.03
	12H	21.13	21.86	21.61	22.34	22.81	21.35	22.07	21.83	22.55	23.02
8H	4H	20.98	21.79	21.44	22.24	22.70	21.17	21.98	21.63	22.42	22.89
	6H	21.32	21.99	21.81	22.48	22.95	21.47	22.14	21.97	22.63	23.11
	8H	21.38	21.98	21.89	22.49	22.98	21.55	22.15	22.07	22.66	23.15
	12H	21.41	21.94	21.92	22.44	23.00	21.63	22.16	22.14	22.65	23.21
12H	4H	20.98	21.71	21.46	22.18	22.65	21.16	21.89	21.65	22.37	22.84
	6H	21.31	21.91	21.82	22.42	22.91	21.47	22.07	21.98	22.58	23.06
	8H	21.41	21.94	21.92	22.43	22.99	21.58	22.11	22.09	22.60	23.17