

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: P1499748

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499748
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-50-90
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

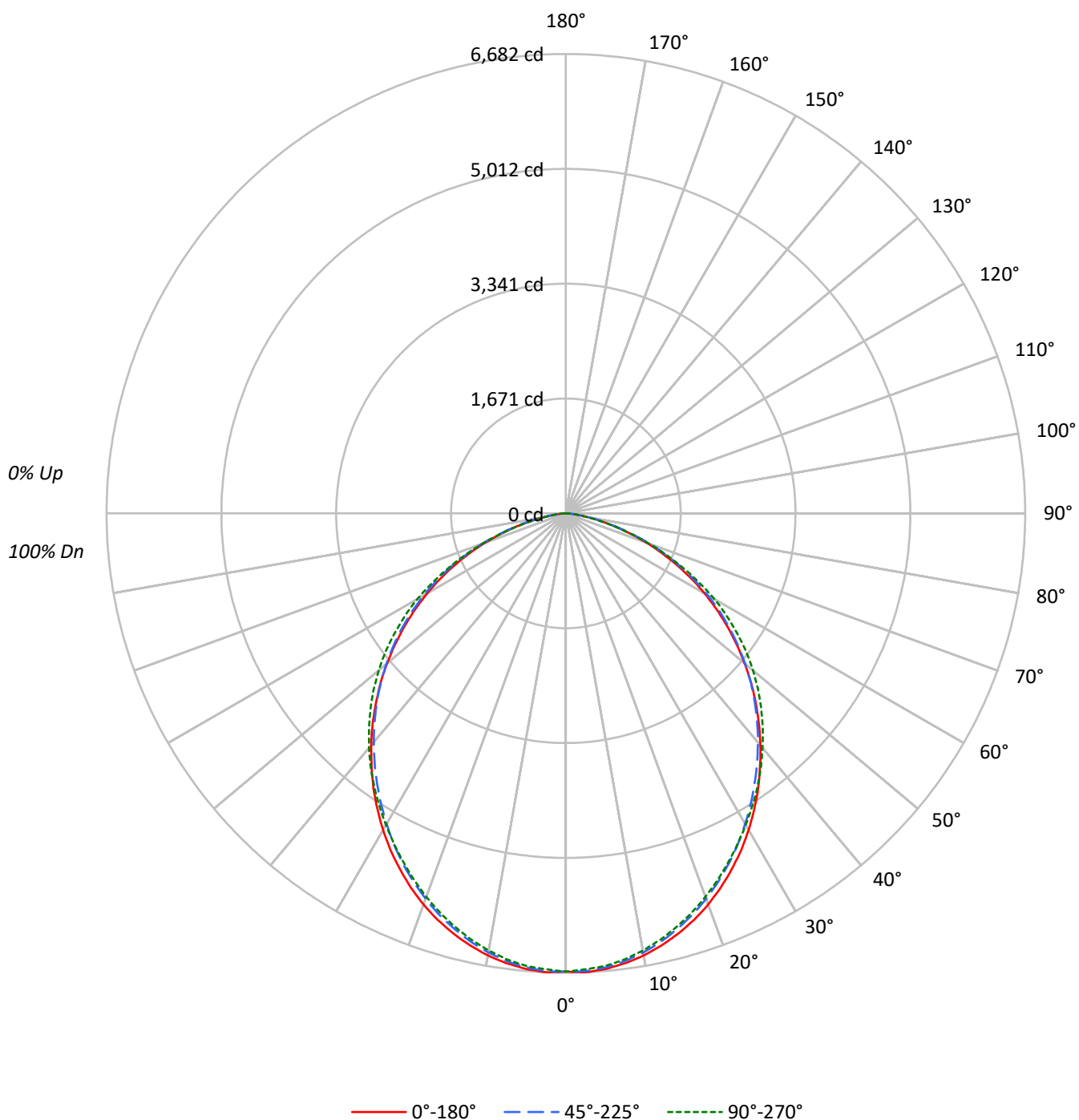
Lumens per Lamp: N/A
Luminaire Lumens: 16407.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8968	8968	8968
5°	8984	8955	8926
10°	8921	8863	8820
15°	8813	8719	8674
20°	8669	8544	8499
25°	8479	8338	8308
30°	8261	8104	8130
35°	8015	7866	7980
40°	7736	7635	7821
45°	7434	7398	7645
50°	7104	7129	7437
55°	6731	6819	7132
60°	6269	6420	6723
65°	5694	5880	6010
70°	4904	5107	5063
75°	3896	4050	3776
80°	2621	2647	2449
85°	1346	1652	2005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7645 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.5	3.8
10°-20°	1763.5	10.7
20°-30°	2590.3	15.8
30°-40°	3016.2	18.4
40°-50°	3023.2	18.4
50°-60°	2612.9	15.9
60°-70°	1817.8	11.1
70°-80°	815.0	5.0
80°-90°	140.6	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°	4981.3	30.4
0°-40°	7997.5	48.7
0°-60°	13633.7	83.1
0°-90°	16407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6665	6665	6665	6665	6665	
5°	6652	6623	6630	6600	6609	631
15°	6327	6287	6259	6217	6227	1783
25°	5711	5661	5616	5574	5596	2630
35°	4880	4819	4789	4811	4858	3049
45°	3907	3864	3888	3966	4018	3014
55°	2869	2839	2907	3005	3040	2561
65°	1789	1784	1847	1881	1888	1768
75°	749	756	779	749	726	805
85°	87	93	107	123	130	129
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6664.9	6664.9	6664.9	6664.9	6664.9
2.5°	6681.7	6654.0	6664.9	6641.3	6636.4
5°	6651.6	6623.2	6630.4	6599.9	6608.7
7.5°	6600.0	6569.8	6569.4	6536.2	6544.4
10°	6529.9	6494.4	6486.9	6449.2	6455.5
12.5°	6436.7	6400.1	6383.7	6340.7	6351.5
15°	6327.0	6286.7	6259.2	6216.9	6226.7
17.5°	6200.1	6155.8	6122.4	6073.3	6089.2
20°	6054.3	6006.7	5966.9	5914.6	5935.6
22.5°	5891.0	5841.0	5795.4	5748.7	5769.9
25°	5711.2	5660.7	5616.1	5573.7	5595.9
27.5°	5522.2	5465.9	5421.1	5391.1	5415.6
30°	5317.5	5259.5	5216.3	5198.1	5233.0
32.5°	5101.4	5044.2	5006.3	5008.0	5048.3
35°	4879.6	4819.2	4789.1	4811.4	4858.4
37.5°	4640.9	4590.4	4570.6	4613.1	4660.8
40°	4404.6	4351.9	4346.8	4402.7	4453.0
42.5°	4159.9	4113.7	4120.0	4191.5	4238.3
45°	3906.8	3863.9	3887.7	3966.5	4017.6
47.5°	3658.1	3614.0	3651.1	3737.2	3792.4
50°	3393.6	3358.0	3406.0	3502.3	3552.9
52.5°	3130.9	3096.6	3158.1	3259.6	3308.3
55°	2869.4	2838.6	2906.8	3005.2	3040.3
57.5°	2598.8	2581.6	2652.0	2738.2	2774.8
60°	2329.6	2315.0	2385.9	2465.6	2498.2
62.5°	2060.0	2051.9	2119.2	2183.5	2194.2
65°	1788.6	1784.2	1847.0	1881.1	1887.6
67.5°	1514.2	1517.5	1574.4	1591.4	1590.3
70°	1246.5	1246.5	1298.1	1301.8	1286.9
72.5°	986.6	994.1	1027.0	1018.0	994.3
75°	749.4	756.2	779.1	748.9	726.3
77.5°	528.8	534.4	543.9	510.8	496.6
80°	338.3	348.6	341.6	325.7	316.1
82.5°	188.9	199.5	193.3	207.6	214.2
85°	87.2	93.4	107.0	123.2	129.9
87.5°	29.7	35.3	43.9	46.8	43.6
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	18.55	20.14	18.92	20.45	20.76	18.97	20.56	19.34	20.87	21.18
	3H	20.00	21.42	20.38	21.75	22.11	20.38	21.80	20.76	22.13	22.49
	4H	20.42	21.75	20.82	22.10	22.48	20.74	22.08	21.14	22.43	22.80
	6H	20.62	21.85	21.03	22.22	22.61	20.89	22.13	21.30	22.49	22.89
	8H	20.64	21.82	21.07	22.21	22.61	20.92	22.10	21.34	22.48	22.88
	12H	20.64	21.77	21.07	22.15	22.58	20.93	22.06	21.36	22.44	22.87
4H	2H	19.14	20.48	19.54	20.83	21.20	19.48	20.82	19.88	21.17	21.54
	3H	20.76	21.87	21.17	22.27	22.67	21.07	22.18	21.48	22.58	22.98
	4H	21.26	22.26	21.70	22.68	23.12	21.52	22.52	21.95	22.93	23.37
	6H	21.54	22.41	21.99	22.85	23.31	21.74	22.61	22.19	23.05	23.51
	8H	21.58	22.39	22.04	22.83	23.30	21.78	22.59	22.24	23.03	23.50
	12H	21.59	22.31	22.07	22.79	23.26	21.81	22.53	22.29	23.01	23.48
8H	4H	21.45	22.26	21.91	22.70	23.17	21.68	22.49	22.14	22.93	23.40
	6H	21.77	22.44	22.27	22.93	23.41	21.94	22.61	22.44	23.10	23.58
	8H	21.84	22.43	22.35	22.94	23.43	22.01	22.61	22.52	23.12	23.60
	12H	21.87	22.40	22.38	22.89	23.45	22.07	22.60	22.58	23.09	23.65
12H	4H	21.44	22.17	21.92	22.64	23.12	21.67	22.40	22.15	22.88	23.35
	6H	21.76	22.36	22.28	22.87	23.36	21.94	22.54	22.45	23.04	23.53
	8H	21.86	22.39	22.37	22.88	23.44	22.03	22.56	22.54	23.05	23.62