

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: P1499166

Luminaire Tested: MAE-G-4-120-1STD-STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

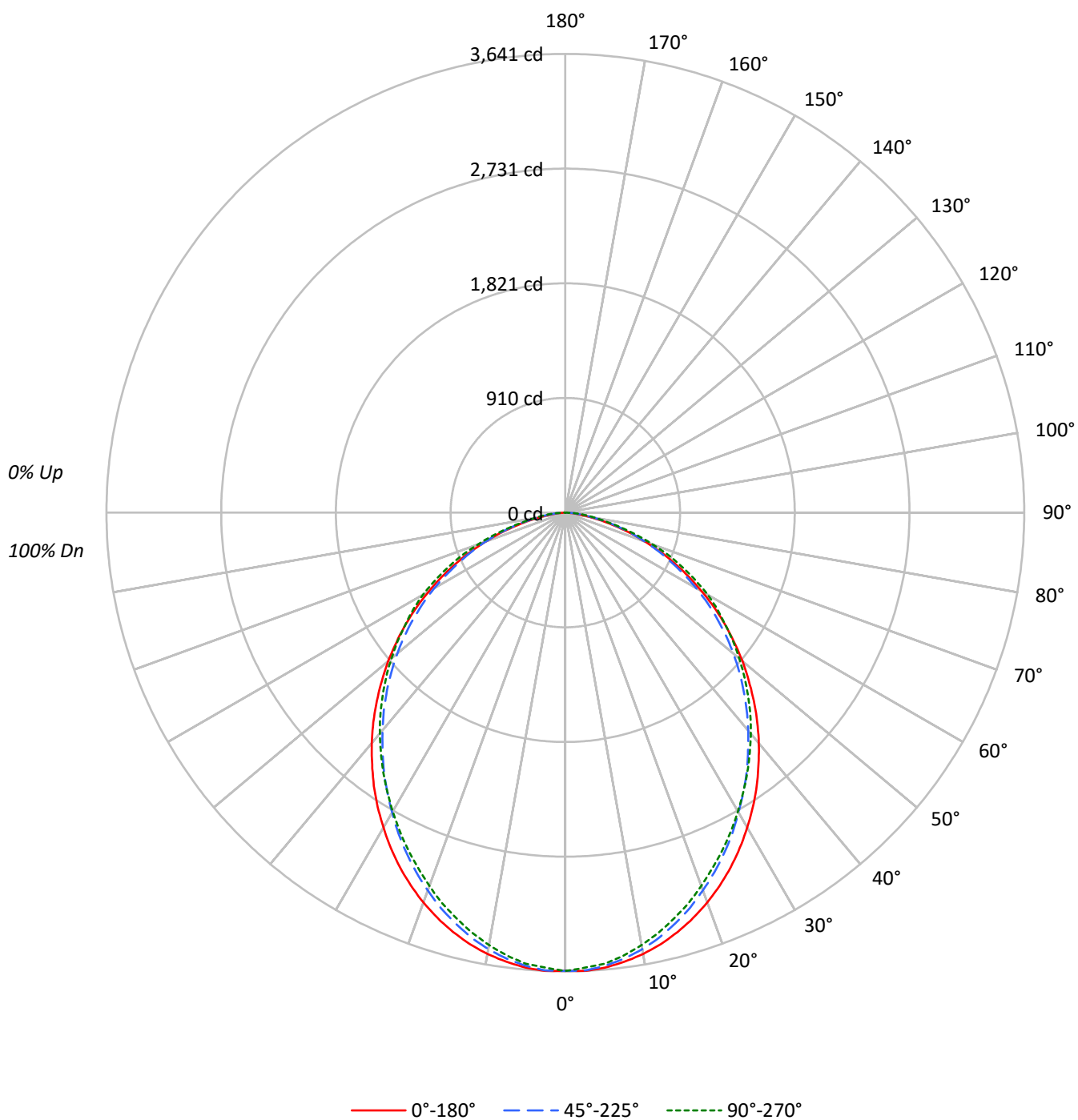
Lumens per Lamp: N/A
Luminaire Lumens: 8704.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	82	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	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	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4894	4894	4894
5°	4896	4877	4853
10°	4860	4807	4762
15°	4799	4700	4644
20°	4715	4569	4515
25°	4610	4427	4383
30°	4484	4269	4254
35°	4350	4120	4134
40°	4196	3964	4022
45°	4023	3809	3898
50°	3840	3644	3769
55°	3628	3451	3633
60°	3366	3229	3512
65°	3063	2943	3265
70°	2659	2645	2910
75°	2122	2252	2390
80°	1468	1740	1895
85°	820	1326	1724

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	3.9
10°-20°	951.8	10.9
20°-30°	1382.6	15.9
30°-40°	1591.1	18.3
40°-50°	1574.9	18.1
50°-60°	1348.5	15.5
60°-70°	951.1	10.9
70°-80°	462.1	5.3
80°-90°	100.6	1.2
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°	2675.8	30.7
0°-40°	4266.9	49.0
0°-60°	7190.3	82.6
0°-90°	8704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3637	3637	3637	3637	3637	
5°	3625	3622	3611	3585	3593	344
15°	3445	3426	3374	3329	3334	971
25°	3105	3060	2982	2944	2952	1429
35°	2648	2586	2508	2499	2517	1655
45°	2114	2058	2002	2026	2048	1631
55°	1546	1494	1471	1515	1549	1381
65°	962	921	924	995	1026	952
75°	408	391	433	460	460	441
85°	53	65	86	104	112	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3637.3	3637.3	3637.3	3637.3	3637.3
2.5°	3641.4	3644.4	3637.3	3610.0	3614.7
5°	3624.7	3621.6	3610.8	3585.3	3593.3
7.5°	3595.7	3590.7	3571.3	3541.1	3546.3
10°	3557.4	3547.4	3518.4	3480.7	3485.2
12.5°	3507.6	3494.3	3453.4	3410.6	3415.3
15°	3445.3	3426.1	3374.2	3329.2	3333.9
17.5°	3373.7	3351.9	3289.1	3240.2	3250.5
20°	3292.7	3263.1	3190.8	3144.5	3153.4
22.5°	3203.5	3166.3	3090.5	3045.8	3052.8
25°	3105.2	3060.0	2982.2	2944.0	2952.4
27.5°	2999.3	2949.5	2869.6	2834.6	2847.5
30°	2886.3	2832.8	2748.0	2724.0	2738.0
32.5°	2770.4	2713.3	2629.8	2614.4	2628.3
35°	2648.5	2586.2	2508.5	2499.2	2516.8
37.5°	2517.9	2458.2	2381.4	2387.4	2403.9
40°	2388.8	2326.9	2256.8	2270.1	2289.8
42.5°	2254.4	2194.8	2130.8	2149.3	2172.4
45°	2114.5	2057.6	2001.6	2026.3	2048.4
47.5°	1974.0	1917.7	1872.3	1901.1	1927.3
50°	1834.7	1780.6	1740.7	1775.6	1800.4
52.5°	1688.3	1636.7	1608.3	1645.1	1676.9
55°	1546.5	1494.0	1471.0	1515.0	1548.6
57.5°	1399.9	1356.8	1337.0	1388.6	1430.6
60°	1251.0	1208.5	1200.1	1265.3	1305.2
62.5°	1105.5	1063.9	1060.1	1136.5	1165.1
65°	962.2	921.2	924.3	994.7	1025.6
67.5°	820.3	782.6	799.9	867.5	888.1
70°	675.8	642.1	672.4	729.5	739.7
72.5°	540.0	511.7	552.8	592.8	595.3
75°	408.1	390.6	433.1	459.5	459.7
77.5°	292.1	282.9	322.1	340.1	341.2
80°	189.4	193.6	224.5	238.5	244.6
82.5°	110.4	120.2	144.2	168.2	174.5
85°	53.1	64.8	85.9	104.2	111.7
87.5°	18.4	26.2	35.9	39.8	38.7
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	16.32	17.90	16.68	18.21	18.53	16.49	18.07	16.85	18.38	18.70
	3H	17.76	19.19	18.14	19.52	19.88	18.13	19.55	18.51	19.88	20.24
	4H	18.19	19.53	18.59	19.88	20.26	18.63	19.97	19.03	20.32	20.69
	6H	18.41	19.65	18.82	20.02	20.41	18.93	20.16	19.34	20.53	20.92
	8H	18.45	19.63	18.87	20.02	20.42	19.01	20.19	19.44	20.58	20.98
	12H	18.45	19.58	18.88	19.96	20.39	19.08	20.21	19.51	20.59	21.02
4H	2H	16.83	18.17	17.23	18.52	18.89	16.97	18.31	17.37	18.66	19.03
	3H	18.47	19.58	18.88	19.98	20.38	18.82	19.93	19.23	20.33	20.73
	4H	18.98	19.98	19.41	20.40	20.83	19.43	20.44	19.86	20.85	21.29
	6H	19.28	20.15	19.73	20.59	21.05	19.83	20.70	20.29	21.15	21.60
	8H	19.33	20.15	19.80	20.59	21.06	19.95	20.77	20.42	21.21	21.68
	12H	19.36	20.09	19.84	20.57	21.04	20.05	20.78	20.53	21.26	21.73
8H	4H	19.20	20.02	19.66	20.46	20.93	19.61	20.43	20.08	20.87	21.34
	6H	19.57	20.25	20.07	20.74	21.21	20.09	20.77	20.59	21.26	21.73
	8H	19.66	20.26	20.17	20.77	21.26	20.27	20.87	20.78	21.38	21.87
	12H	19.71	20.25	20.22	20.74	21.30	20.43	20.96	20.93	21.45	22.01
12H	4H	19.21	19.95	19.70	20.42	20.89	19.61	20.34	20.09	20.82	21.29
	6H	19.59	20.20	20.10	20.71	21.19	20.10	20.70	20.61	21.21	21.70
	8H	19.72	20.25	20.23	20.75	21.31	20.32	20.85	20.83	21.34	21.91