

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: P1499679

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499679
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-50
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

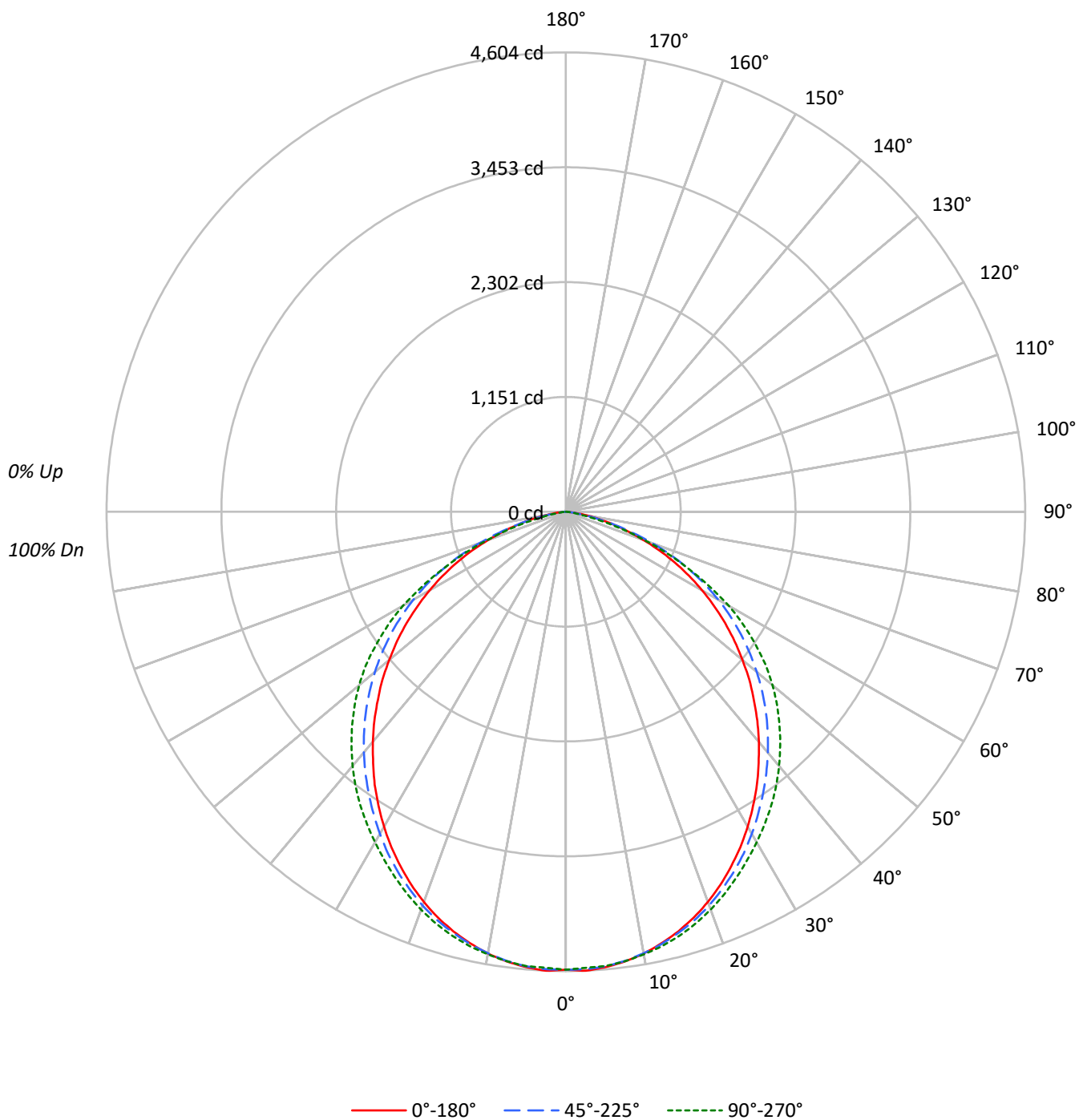
Lumens per Lamp: N/A
Luminaire Lumens: 11632.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6175	6175	6175
5°	6188	6175	6173
10°	6143	6140	6154
15°	6064	6084	6128
20°	5959	6014	6076
25°	5821	5914	6007
30°	5663	5791	5943
35°	5485	5660	5898
40°	5286	5532	5839
45°	5070	5395	5765
50°	4835	5228	5662
55°	4575	5026	5444
60°	4246	4749	5080
65°	3834	4331	4351
70°	3273	3636	3382
75°	2570	2653	2080
80°	1678	1364	805
85°	804	539	428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.5	3.7
10°-20°	1230.8	10.6
20°-30°	1830.5	15.7
30°-40°	2157.0	18.5
40°-50°	2187.0	18.8
50°-60°	1905.7	16.4
60°-70°	1303.3	11.2
70°-80°	523.5	4.5
80°-90°	60.7	0.5
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°	3494.8	30.0
0°-40°	5651.8	48.6
0°-60°	9744.4	83.8
0°-90°	11632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4589	4589	4589	4589	4589	
5°	4582	4554	4572	4567	4570	435
15°	4354	4335	4368	4386	4400	1227
25°	3921	3922	3983	4012	4046	1805
35°	3339	3354	3446	3530	3591	2086
45°	2665	2700	2835	2963	3030	2057
55°	1950	1992	2142	2277	2321	1741
65°	1204	1258	1360	1371	1367	1191
75°	494	528	510	438	400	531
85°	52	47	35	31	28	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4589.4	4589.4	4589.4	4589.4	4589.4
2.5°	4604.2	4573.5	4589.4	4586.2	4574.4
5°	4581.9	4554.3	4572.3	4567.2	4570.2
7.5°	4545.8	4520.5	4539.5	4538.5	4543.7
10°	4496.1	4470.5	4494.0	4498.2	4504.5
12.5°	4430.2	4409.1	4437.7	4446.1	4458.8
15°	4353.7	4334.7	4367.6	4385.6	4399.5
17.5°	4264.6	4248.7	4291.1	4308.2	4327.2
20°	4161.6	4150.2	4199.9	4215.8	4243.5
22.5°	4047.2	4040.9	4092.7	4117.1	4149.0
25°	3920.8	3921.9	3983.4	4012.2	4046.0
27.5°	3788.3	3790.4	3860.5	3900.6	3936.7
30°	3645.0	3651.3	3727.7	3777.7	3825.3
32.5°	3493.2	3505.9	3588.7	3656.7	3709.7
35°	3339.4	3354.1	3445.6	3530.3	3590.8
37.5°	3172.8	3197.2	3300.2	3401.0	3463.4
40°	3009.4	3033.8	3149.4	3260.8	3324.6
42.5°	2840.7	2871.5	2994.6	3118.7	3180.1
45°	2664.6	2700.5	2835.3	2962.7	3029.5
47.5°	2495.7	2527.6	2669.7	2802.5	2871.5
50°	2310.0	2350.3	2497.8	2636.9	2704.9
52.5°	2132.9	2169.9	2321.7	2464.1	2525.5
55°	1950.4	1991.7	2142.5	2277.1	2320.8
57.5°	1763.5	1813.4	1958.9	2071.4	2112.7
60°	1578.0	1627.7	1764.7	1857.1	1887.8
62.5°	1393.2	1446.4	1566.2	1627.7	1627.7
65°	1204.4	1258.5	1360.3	1370.9	1366.7
67.5°	1015.6	1069.7	1147.1	1127.9	1115.2
70°	831.9	878.6	924.3	889.1	859.6
72.5°	653.7	698.2	705.7	654.8	617.5
75°	494.4	527.5	510.4	438.4	400.1
77.5°	344.8	364.0	327.9	254.7	224.0
80°	216.5	224.9	176.1	124.1	103.9
82.5°	116.8	117.7	76.5	62.6	58.4
85°	52.1	46.7	34.9	30.7	27.7
87.5°	18.1	15.9	12.7	11.7	9.6
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	17.25	18.83	17.62	19.15	19.46	18.23	19.82	18.60	20.13	20.45
	3H	18.66	20.08	19.04	20.41	20.77	19.44	20.86	19.82	21.19	21.55
	4H	19.06	20.39	19.45	20.74	21.11	19.66	20.99	20.05	21.34	21.71
	6H	19.23	20.46	19.64	20.83	21.22	19.67	20.91	20.08	21.27	21.66
	8H	19.24	20.42	19.67	20.81	21.21	19.65	20.82	20.08	21.21	21.61
	12H	19.24	20.36	19.67	20.74	21.17	19.62	20.75	20.05	21.13	21.56
4H	2H	17.92	19.26	18.32	19.60	19.98	18.71	20.05	19.11	20.39	20.77
	3H	19.49	20.60	19.90	21.00	21.40	20.08	21.19	20.49	21.59	21.99
	4H	19.97	20.96	20.40	21.38	21.81	20.35	21.35	20.79	21.76	22.20
	6H	20.21	21.07	20.66	21.51	21.97	20.41	21.27	20.86	21.71	22.17
	8H	20.23	21.03	20.69	21.48	21.94	20.38	21.19	20.84	21.63	22.10
	12H	20.23	20.95	20.71	21.43	21.90	20.36	21.08	20.84	21.56	22.03
8H	4H	20.11	20.92	20.58	21.36	21.83	20.47	21.28	20.94	21.72	22.19
	6H	20.39	21.05	20.88	21.54	22.02	20.53	21.19	21.03	21.68	22.16
	8H	20.43	21.02	20.94	21.53	22.02	20.51	21.10	21.02	21.61	22.10
	12H	20.44	20.96	20.95	21.46	22.02	20.50	21.02	21.00	21.51	22.07
12H	4H	20.09	20.81	20.58	21.29	21.76	20.46	21.18	20.94	21.66	22.13
	6H	20.36	20.95	20.87	21.46	21.95	20.51	21.10	21.02	21.61	22.10
	8H	20.42	20.95	20.93	21.44	22.00	20.51	21.03	21.02	21.52	22.09