

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: P1499109

Luminaire Tested: MAE-G-4-120-1STD-HI-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499109
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-HI-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

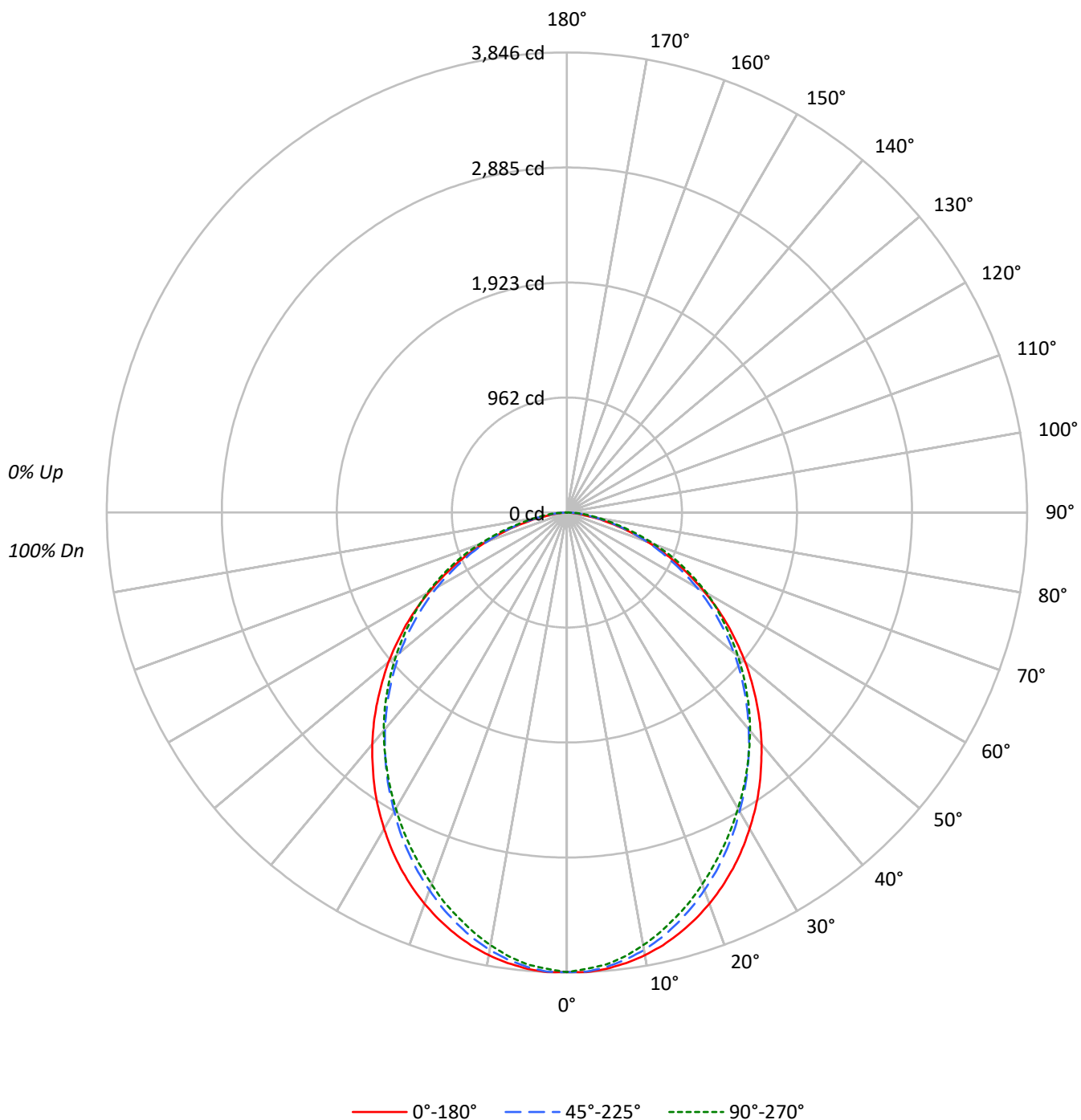
Lumens per Lamp: N/A
Luminaire Lumens: 9153.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 123
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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5169	5169	5169
5°	5172	5151	5123
10°	5135	5073	5019
15°	5071	4954	4883
20°	4984	4809	4737
25°	4875	4655	4587
30°	4745	4483	4442
35°	4605	4322	4308
40°	4444	4153	4181
45°	4265	3987	4044
50°	4073	3811	3901
55°	3850	3607	3755
60°	3578	3375	3633
65°	3260	3081	3405
70°	2832	2786	3078
75°	2266	2402	2595
80°	1573	1899	2122
85°	883	1476	1948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4265 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.5	3.9
10°-20°	1003.2	11.0
20°-30°	1454.2	15.9
30°-40°	1670.3	18.2
40°-50°	1650.2	18.0
50°-60°	1411.1	15.4
60°-70°	998.6	10.9
70°-80°	494.0	5.4
80°-90°	111.1	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°	2817.8	30.8
0°-40°	4488.1	49.0
0°-60°	7549.4	82.5
0°-90°	9153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3842	3842	3842	3842	3842	
5°	3829	3826	3814	3784	3793	363
15°	3641	3618	3557	3502	3506	1026
25°	3284	3231	3135	3084	3090	1511
35°	2804	2730	2631	2609	2622	1752
45°	2241	2171	2095	2108	2125	1729
55°	1641	1577	1538	1571	1601	1465
65°	1024	973	968	1038	1070	1013
75°	436	414	462	496	499	470
85°	57	71	96	117	126	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3842.0	3842.0	3842.0	3842.0	3842.0
2.5°	3846.3	3849.8	3842.0	3812.2	3818.0
5°	3829.1	3826.0	3813.6	3784.3	3793.1
7.5°	3798.7	3793.0	3770.6	3735.5	3741.0
10°	3758.4	3747.0	3713.4	3669.2	3673.3
12.5°	3706.1	3690.3	3642.5	3591.6	3595.6
15°	3640.8	3618.3	3556.8	3502.0	3505.5
17.5°	3565.8	3539.3	3464.5	3404.7	3413.7
20°	3481.0	3445.6	3358.9	3301.2	3308.1
22.5°	3387.1	3343.1	3251.4	3194.5	3198.8
25°	3284.0	3230.6	3135.4	3084.4	3089.8
27.5°	3172.8	3114.0	3014.7	2967.1	2976.6
30°	3054.2	2990.4	2885.8	2848.7	2859.0
32.5°	2932.1	2863.9	2760.1	2731.5	2741.9
35°	2803.6	2729.5	2631.0	2609.0	2622.5
37.5°	2666.4	2594.5	2496.6	2489.7	2502.0
40°	2530.1	2455.9	2364.5	2365.0	2380.7
42.5°	2388.3	2316.2	2231.4	2237.4	2256.0
45°	2241.2	2171.1	2095.2	2107.8	2125.1
47.5°	2092.8	2024.0	1959.1	1976.1	1997.7
50°	1945.7	1878.9	1820.6	1844.1	1863.6
52.5°	1790.7	1727.3	1681.4	1707.1	1734.2
55°	1641.3	1576.9	1537.8	1571.1	1600.8
57.5°	1486.4	1431.9	1397.4	1440.0	1478.2
60°	1329.5	1276.1	1254.1	1312.3	1350.0
62.5°	1175.4	1123.4	1108.7	1180.6	1209.7
65°	1023.9	973.0	967.6	1038.5	1069.6
67.5°	873.0	826.9	838.7	909.6	931.3
70°	720.0	678.5	708.2	769.8	782.5
72.5°	575.7	541.3	585.2	631.5	636.7
75°	435.8	413.8	462.1	495.7	499.2
77.5°	312.2	300.8	347.1	372.5	377.0
80°	203.0	207.3	245.1	265.9	273.9
82.5°	118.5	129.7	159.8	188.1	196.4
85°	57.2	70.6	95.6	117.1	126.2
87.5°	19.6	28.5	40.2	44.7	43.4
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	16.52	18.11	16.89	18.42	18.73	16.56	18.14	16.92	18.45	18.77
	3H	17.98	19.41	18.36	19.73	20.09	18.24	19.67	18.62	19.99	20.36
	4H	18.41	19.75	18.81	20.10	20.48	18.78	20.12	19.18	20.47	20.84
	6H	18.64	19.88	19.05	20.24	20.63	19.12	20.35	19.53	20.72	21.11
	8H	18.68	19.86	19.10	20.25	20.65	19.22	20.40	19.64	20.79	21.19
	12H	18.68	19.81	19.11	20.19	20.62	19.29	20.42	19.72	20.81	21.23
4H	2H	17.02	18.36	17.42	18.71	19.09	17.05	18.39	17.45	18.74	19.12
	3H	18.67	19.79	19.08	20.19	20.59	18.95	20.06	19.36	20.46	20.86
	4H	19.19	20.20	19.62	20.61	21.05	19.60	20.61	20.03	21.02	21.46
	6H	19.50	20.37	19.95	20.82	21.27	20.05	20.92	20.50	21.36	21.82
	8H	19.56	20.37	20.02	20.82	21.28	20.19	21.01	20.65	21.45	21.92
	12H	19.58	20.31	20.06	20.79	21.26	20.30	21.03	20.78	21.51	21.98
8H	4H	19.42	20.24	19.88	20.68	21.15	19.79	20.61	20.25	21.05	21.52
	6H	19.80	20.48	20.29	20.97	21.44	20.32	21.00	20.82	21.49	21.97
	8H	19.89	20.50	20.40	21.01	21.49	20.53	21.13	21.04	21.64	22.13
	12H	19.95	20.48	20.45	20.97	21.54	20.70	21.24	21.21	21.73	22.29
12H	4H	19.44	20.17	19.92	20.65	21.12	19.79	20.53	20.27	21.00	21.47
	6H	19.82	20.43	20.34	20.94	21.43	20.33	20.94	20.84	21.45	21.94
	8H	19.96	20.49	20.47	20.99	21.55	20.58	21.12	21.09	21.61	22.17