

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: P1498824

Luminaire Tested: MAE-G-2-120-3STD-HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498824
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-2-120-3STD-HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

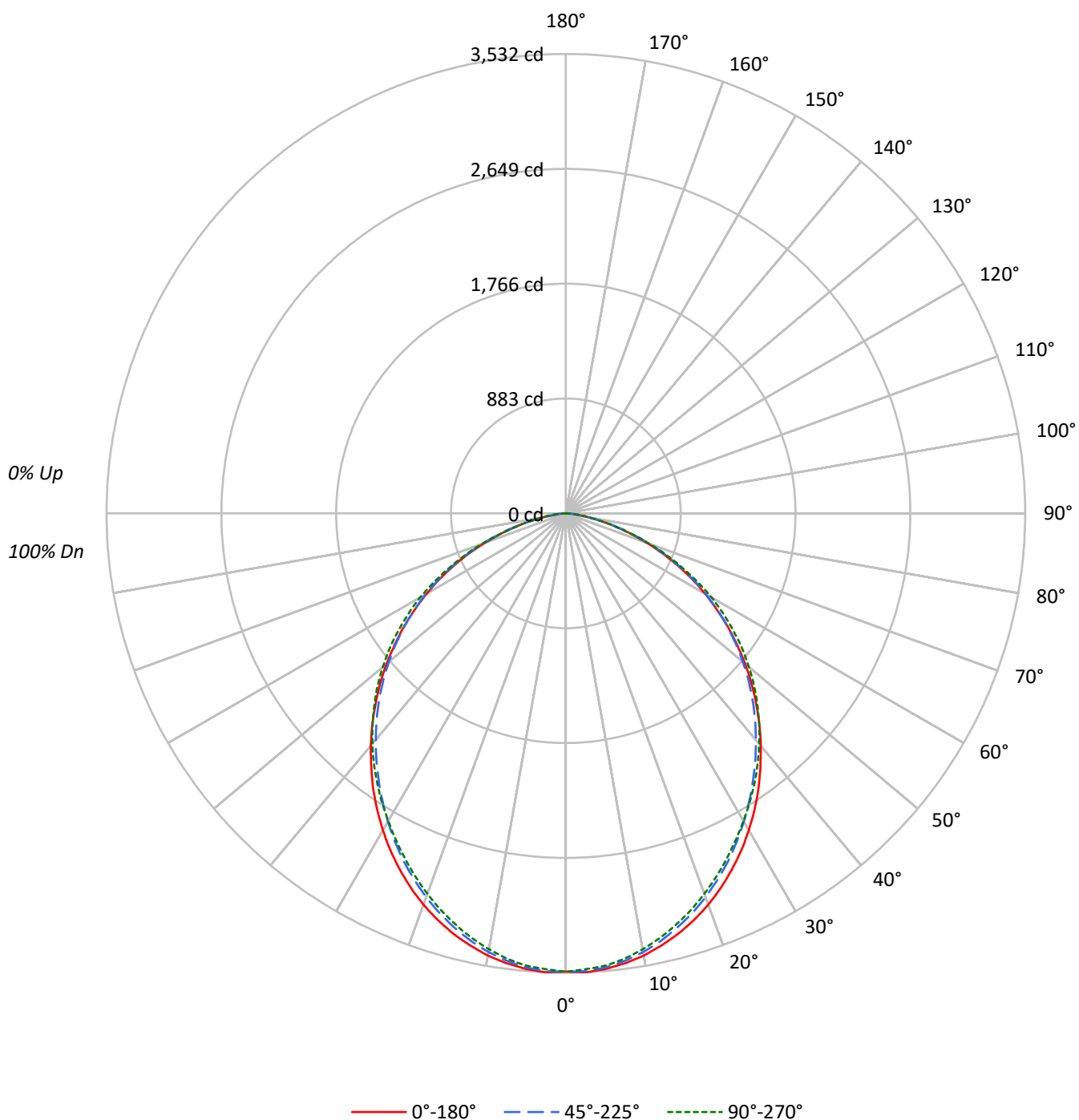
Lumens per Lamp: N/A
Luminaire Lumens: 8621.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 94.8
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9481	9481	9481
5°	9498	9465	9429
10°	9433	9359	9300
15°	9319	9193	9122
20°	9169	8992	8915
25°	8970	8761	8694
30°	8743	8502	8488
35°	8485	8241	8311
40°	8192	7986	8127
45°	7875	7727	7926
50°	7528	7438	7693
55°	7135	7106	7373
60°	6650	6685	6966
65°	6047	6129	6287
70°	5217	5362	5386
75°	4154	4325	4156
80°	2811	2941	2867
85°	1460	1936	2421

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7926 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.5	3.8
10°-20°	929.7	10.8
20°-30°	1362.0	15.8
30°-40°	1581.9	18.3
40°-50°	1581.7	18.3
50°-60°	1364.6	15.8
60°-70°	952.9	11.1
70°-80°	436.7	5.1
80°-90°	80.0	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°	2623.2	30.4
0°-40°	4205.1	48.8
0°-60°	7151.4	83.0
0°-90°	8621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3523	3523	3523	3523	3523	
5°	3516	3502	3504	3485	3491	334
15°	3345	3323	3300	3270	3274	943
25°	3021	2989	2951	2919	2928	1391
35°	2583	2542	2509	2509	2530	1614
45°	2069	2036	2030	2061	2083	1596
55°	1521	1495	1515	1556	1572	1358
65°	950	938	963	982	987	939
75°	400	399	416	408	400	429
85°	47	52	63	74	78	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3523.4	3523.4	3523.4	3523.4	3523.4
2.5°	3531.7	3518.8	3523.4	3508.8	3507.6
5°	3516.1	3502.3	3504.1	3485.4	3490.6
7.5°	3488.9	3473.6	3470.4	3449.4	3453.8
10°	3452.0	3433.4	3425.0	3400.3	3403.4
12.5°	3403.0	3383.1	3368.1	3339.4	3344.3
15°	3345.2	3322.6	3299.8	3270.1	3274.2
17.5°	3278.3	3252.6	3224.8	3190.8	3198.0
20°	3201.7	3173.1	3140.1	3104.2	3113.3
22.5°	3115.7	3084.9	3047.7	3014.2	3022.6
25°	3021.1	2988.7	2950.7	2919.2	2928.0
27.5°	2921.5	2885.3	2845.9	2820.4	2830.3
30°	2813.6	2775.8	2736.3	2716.8	2731.6
32.5°	2699.9	2661.4	2624.3	2614.8	2632.1
35°	2582.8	2542.1	2508.6	2509.4	2529.8
37.5°	2457.0	2421.0	2392.2	2403.5	2424.0
40°	2332.1	2294.8	2273.4	2291.5	2313.5
42.5°	2202.9	2168.5	2153.3	2179.3	2199.5
45°	2069.3	2036.4	2030.4	2060.6	2082.7
47.5°	1937.4	1904.4	1905.7	1939.7	1964.0
50°	1798.2	1769.2	1776.7	1816.2	1837.7
52.5°	1658.8	1631.1	1646.4	1688.6	1710.1
55°	1520.9	1494.8	1514.6	1556.2	1571.6
57.5°	1377.9	1359.2	1381.1	1418.4	1435.2
60°	1235.6	1218.5	1242.2	1278.4	1294.4
62.5°	1092.9	1079.5	1103.6	1134.8	1141.7
65°	949.7	938.5	962.6	982.5	987.4
67.5°	804.7	798.4	822.5	836.3	837.6
70°	663.1	655.8	681.5	689.3	684.5
72.5°	525.5	523.4	543.1	545.4	536.2
75°	399.5	398.7	416.0	408.0	399.7
77.5°	282.5	283.1	294.8	285.2	281.1
80°	181.4	186.7	189.8	187.9	185.0
82.5°	101.9	108.6	111.1	122.3	127.2
85°	47.3	52.1	62.7	73.6	78.4
87.5°	16.1	20.0	26.0	27.9	26.2
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	18.75	20.33	19.11	20.65	20.96	19.04	20.63	19.41	20.94	21.26
	3H	20.20	21.63	20.58	21.95	22.31	20.50	21.92	20.87	22.25	22.61
	4H	20.62	21.96	21.02	22.31	22.69	20.90	22.23	21.30	22.58	22.96
	6H	20.83	22.07	21.24	22.43	22.82	21.08	22.32	21.50	22.69	23.08
	8H	20.86	22.04	21.28	22.43	22.83	21.12	22.30	21.55	22.69	23.09
	12H	20.86	21.98	21.29	22.37	22.80	21.15	22.27	21.58	22.66	23.08
4H	2H	19.32	20.66	19.72	21.01	21.38	19.56	20.90	19.96	21.25	21.62
	3H	20.95	22.06	21.36	22.46	22.86	21.20	22.31	21.61	22.71	23.11
	4H	21.46	22.46	21.89	22.87	23.31	21.69	22.69	22.12	23.11	23.54
	6H	21.74	22.61	22.20	23.05	23.51	21.95	22.82	22.41	23.27	23.72
	8H	21.78	22.60	22.24	23.04	23.51	22.01	22.83	22.48	23.27	23.74
	12H	21.80	22.52	22.28	23.00	23.47	22.06	22.79	22.54	23.26	23.73
8H	4H	21.65	22.46	22.11	22.91	23.37	21.86	22.67	22.32	23.12	23.58
	6H	21.98	22.66	22.48	23.15	23.62	22.18	22.85	22.67	23.34	23.82
	8H	22.05	22.65	22.57	23.16	23.65	22.27	22.87	22.78	23.38	23.87
	12H	22.09	22.62	22.60	23.11	23.67	22.35	22.88	22.86	23.37	23.93
12H	4H	21.65	22.38	22.13	22.85	23.32	21.86	22.58	22.34	23.06	23.53
	6H	21.98	22.59	22.49	23.09	23.58	22.17	22.78	22.68	23.28	23.77
	8H	22.09	22.62	22.59	23.11	23.67	22.30	22.83	22.81	23.32	23.88