

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: P1498830

Luminaire Tested: MAE-G-2-120-3STD-HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498830
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-40-90
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

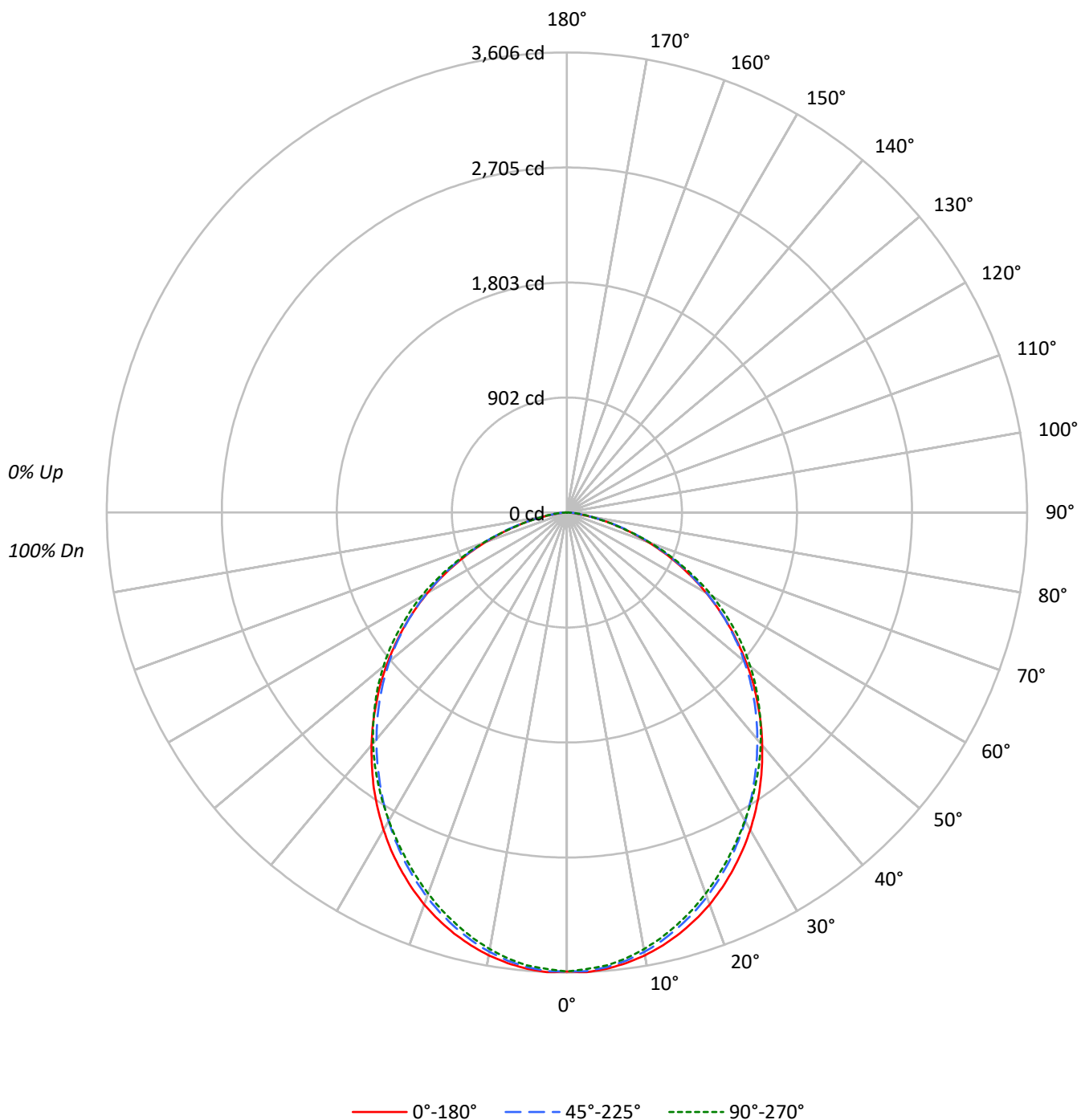
Lumens per Lamp: N/A
Luminaire Lumens: 8803.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	9682	9682	9682
5°	9698	9665	9628
10°	9632	9556	9496
15°	9516	9387	9314
20°	9362	9182	9104
25°	9160	8946	8877
30°	8927	8682	8667
35°	8664	8415	8486
40°	8365	8155	8298
45°	8041	7890	8093
50°	7687	7595	7856
55°	7286	7256	7529
60°	6790	6826	7113
65°	6176	6259	6420
70°	5327	5475	5499
75°	4241	4416	4242
80°	2872	3005	2926
85°	1491	1976	2470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8093 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.5	3.8
10°-20°	949.3	10.8
20°-30°	1390.7	15.8
30°-40°	1615.3	18.3
40°-50°	1615.1	18.3
50°-60°	1393.4	15.8
60°-70°	973.0	11.1
70°-80°	445.9	5.1
80°-90°	81.7	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°	2678.6	30.4
0°-40°	4293.9	48.8
0°-60°	7302.4	83.0
0°-90°	8803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3598	3598	3598	3598	3598	
5°	3590	3576	3578	3559	3564	341
15°	3416	3393	3370	3339	3343	963
25°	3085	3052	3013	2981	2990	1420
35°	2637	2596	2562	2562	2583	1648
45°	2113	2079	2073	2104	2127	1630
55°	1553	1526	1546	1589	1605	1386
65°	970	958	983	1003	1008	958
75°	408	407	425	417	408	438
85°	48	53	64	75	80	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3597.8	3597.8	3597.8	3597.8	3597.8
2.5°	3606.3	3593.1	3597.8	3582.8	3581.6
5°	3590.3	3576.2	3578.1	3559.0	3564.3
7.5°	3562.6	3547.0	3543.7	3522.2	3526.7
10°	3524.9	3505.9	3497.3	3472.1	3475.2
12.5°	3474.8	3454.4	3439.2	3409.9	3414.9
15°	3415.9	3392.7	3369.5	3339.2	3343.3
17.5°	3347.6	3321.3	3292.9	3258.2	3265.5
20°	3269.3	3240.1	3206.3	3169.8	3179.1
22.5°	3181.5	3150.0	3112.0	3077.8	3086.5
25°	3084.9	3051.8	3013.0	2980.9	2989.8
27.5°	2983.1	2946.3	2905.9	2880.0	2890.1
30°	2873.0	2834.3	2794.0	2774.2	2789.2
32.5°	2756.9	2717.7	2679.7	2670.0	2687.7
35°	2637.3	2595.7	2561.5	2562.4	2583.3
37.5°	2508.9	2472.2	2442.7	2454.2	2475.3
40°	2381.3	2343.3	2321.4	2339.9	2362.3
42.5°	2249.4	2214.3	2198.7	2225.4	2246.0
45°	2113.0	2079.4	2073.2	2104.0	2126.6
47.5°	1978.4	1944.6	1946.0	1980.7	2005.5
50°	1836.1	1806.5	1814.2	1854.5	1876.5
52.5°	1693.7	1665.5	1681.2	1724.3	1746.3
55°	1553.0	1526.3	1546.5	1589.0	1604.7
57.5°	1407.0	1387.8	1410.2	1448.4	1465.5
60°	1261.7	1244.3	1268.4	1305.5	1321.7
62.5°	1116.1	1102.2	1126.9	1158.8	1165.8
65°	969.9	958.3	982.9	1003.2	1008.2
67.5°	821.7	815.2	839.8	853.9	855.2
70°	677.1	669.7	695.9	703.9	698.9
72.5°	536.7	534.4	554.6	556.9	547.5
75°	407.9	407.1	424.7	416.6	408.0
77.5°	288.5	289.1	301.0	291.2	286.9
80°	185.3	190.6	193.9	191.9	188.8
82.5°	104.1	110.9	113.5	125.0	129.9
85°	48.3	53.3	64.0	75.2	80.0
87.5°	16.4	20.4	26.5	28.5	26.8
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	18.82	20.40	19.18	20.72	21.03	19.12	20.70	19.48	21.01	21.33
	3H	20.27	21.70	20.65	22.03	22.39	20.57	21.99	20.95	22.32	22.68
	4H	20.70	22.04	21.10	22.38	22.76	20.97	22.31	21.37	22.66	23.03
	6H	20.90	22.14	21.31	22.51	22.90	21.16	22.39	21.57	22.76	23.15
	8H	20.93	22.11	21.35	22.50	22.90	21.20	22.37	21.62	22.76	23.16
	12H	20.93	22.06	21.36	22.44	22.87	21.22	22.35	21.65	22.73	23.16
4H	2H	19.39	20.73	19.79	21.08	21.46	19.63	20.97	20.03	21.32	21.70
	3H	21.02	22.14	21.43	22.53	22.93	21.27	22.39	21.68	22.78	23.19
	4H	21.53	22.53	21.96	22.95	23.38	21.76	22.76	22.19	23.18	23.62
	6H	21.81	22.68	22.27	23.13	23.58	22.03	22.90	22.48	23.34	23.80
	8H	21.86	22.67	22.32	23.11	23.58	22.09	22.90	22.55	23.34	23.81
	12H	21.87	22.60	22.35	23.07	23.54	22.13	22.86	22.61	23.33	23.80
8H	4H	21.72	22.53	22.18	22.98	23.44	21.93	22.75	22.39	23.19	23.65
	6H	22.06	22.73	22.55	23.22	23.69	22.25	22.92	22.75	23.41	23.89
	8H	22.13	22.73	22.64	23.24	23.72	22.34	22.94	22.85	23.45	23.94
	12H	22.16	22.69	22.67	23.18	23.75	22.42	22.95	22.93	23.44	24.01
12H	4H	21.72	22.45	22.20	22.92	23.39	21.93	22.66	22.41	23.13	23.60
	6H	22.06	22.66	22.57	23.17	23.65	22.25	22.85	22.76	23.36	23.84
	8H	22.16	22.69	22.67	23.18	23.74	22.37	22.90	22.88	23.39	23.96