

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: P1499142

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499142
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-LO-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

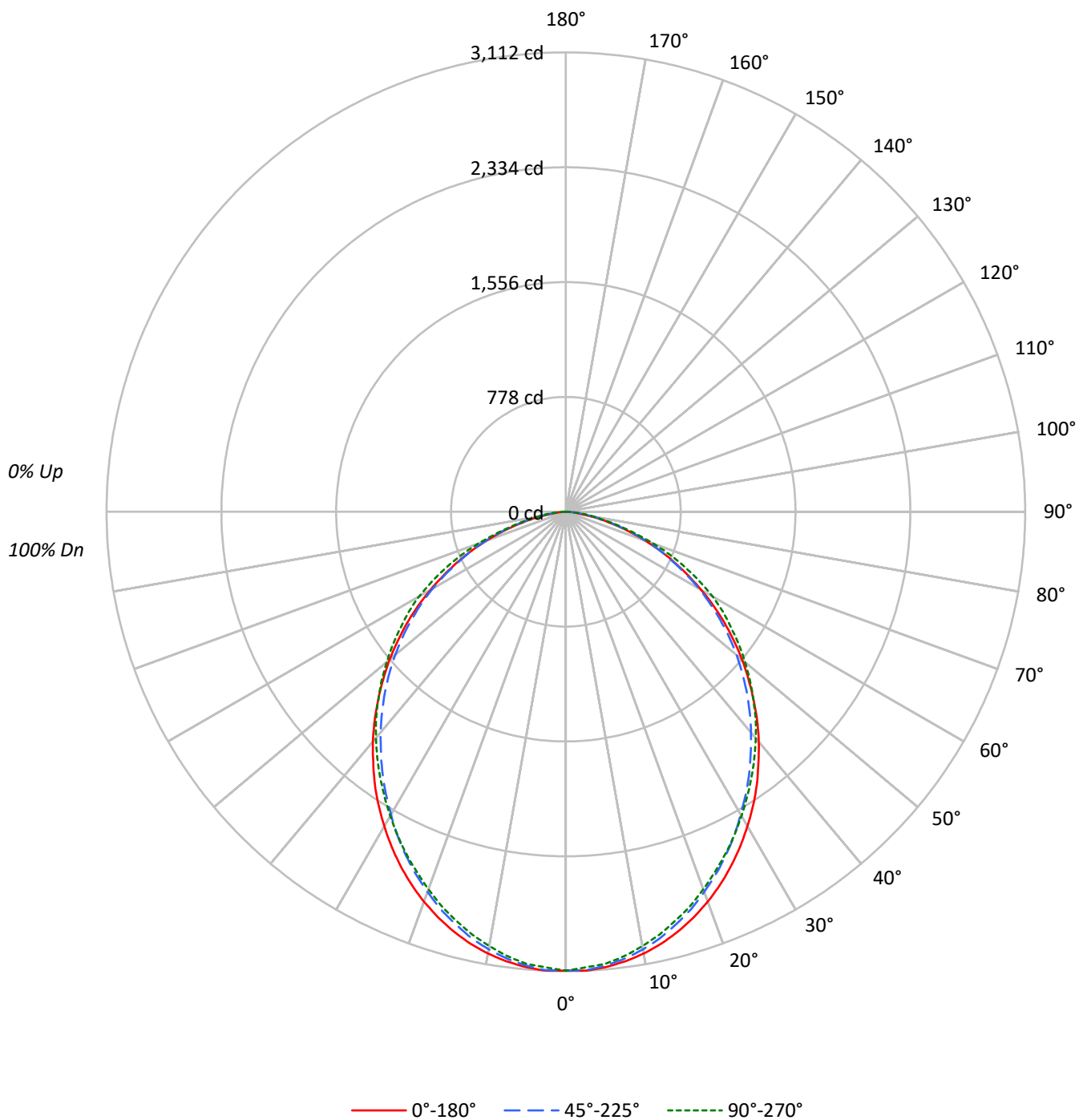
Lumens per Lamp: N/A
Luminaire Lumens: 7487.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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	80	98	90	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	57		67	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	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4182	4182	4182
5°	4183	4168	4152
10°	4152	4113	4082
15°	4099	4029	3995
20°	4024	3924	3898
25°	3933	3810	3797
30°	3822	3680	3696
35°	3705	3558	3603
40°	3571	3428	3517
45°	3421	3298	3418
50°	3262	3159	3316
55°	3078	2994	3202
60°	2851	2803	3094
65°	2589	2548	2842
70°	2243	2271	2482
75°	1784	1895	1957
80°	1227	1413	1477
85°	681	1042	1323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	3.9
10°-20°	816.0	10.9
20°-30°	1188.9	15.9
30°-40°	1372.2	18.3
40°-50°	1361.7	18.2
50°-60°	1168.2	15.6
60°-70°	819.9	11.0
70°-80°	387.8	5.2
80°-90°	80.2	1.1
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°	2296.9	30.7
0°-40°	3669.1	49.0
0°-60°	6199.0	82.8
0°-90°	7487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3108	3108	3108	3108	3108	
5°	3097	3094	3086	3067	3074	294
15°	2942	2929	2892	2862	2868	829
25°	2649	2617	2566	2546	2557	1219
35°	2256	2213	2166	2173	2194	1409
45°	1798	1761	1733	1770	1796	1387
55°	1312	1278	1276	1329	1365	1172
65°	813	787	800	865	893	805
75°	343	332	365	380	376	371
85°	44	53	68	81	86	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3108.3	3108.3	3108.3	3108.3	3108.3
2.5°	3111.9	3114.2	3108.3	3086.2	3089.2
5°	3097.2	3094.4	3086.3	3067.2	3073.8
7.5°	3072.2	3068.4	3053.9	3031.9	3036.4
10°	3039.0	3031.6	3010.5	2983.5	2988.0
12.5°	2996.2	2986.8	2957.5	2927.7	2933.0
15°	2942.4	2928.6	2892.1	2862.4	2868.2
17.5°	2880.4	2865.8	2822.3	2790.3	2801.5
20°	2810.4	2789.9	2740.5	2711.5	2722.1
22.5°	2733.6	2707.5	2656.5	2629.9	2639.7
25°	2648.9	2616.8	2566.1	2546.0	2557.4
27.5°	2557.4	2522.5	2471.9	2454.8	2470.5
30°	2460.0	2422.9	2368.6	2362.0	2379.2
32.5°	2360.5	2321.3	2268.5	2270.0	2287.2
35°	2255.9	2212.8	2166.1	2172.7	2193.7
37.5°	2143.8	2103.1	2057.6	2078.5	2098.7
40°	2033.3	1991.0	1951.6	1979.0	2002.2
42.5°	1918.2	1878.2	1844.0	1875.8	1902.7
45°	1797.9	1761.1	1733.4	1770.4	1796.5
47.5°	1677.8	1640.8	1622.1	1662.9	1692.6
50°	1558.5	1523.8	1509.2	1555.0	1584.3
52.5°	1434.0	1400.5	1395.1	1442.4	1477.3
55°	1312.3	1278.1	1276.2	1329.4	1365.2
57.5°	1187.0	1161.0	1160.3	1218.6	1261.9
60°	1059.4	1033.4	1041.7	1110.2	1149.6
62.5°	935.5	909.5	919.1	994.8	1020.7
65°	813.3	787.2	800.2	864.6	892.8
67.5°	693.2	668.5	691.0	749.4	767.0
70°	570.1	548.3	577.2	624.3	630.8
72.5°	455.2	436.3	470.9	500.2	499.2
75°	343.1	332.3	364.6	380.3	376.5
77.5°	245.2	239.4	267.1	274.8	271.7
80°	158.4	162.0	182.3	187.2	190.6
82.5°	92.0	99.3	114.5	131.2	134.8
85°	44.1	52.9	67.5	80.6	85.7
87.5°	15.4	21.2	27.9	30.8	30.0
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	15.74	17.33	16.11	17.64	17.95	16.11	17.69	16.47	18.00	18.32
	3H	17.18	18.60	17.56	18.93	19.29	17.69	19.12	18.07	19.45	19.81
	4H	17.60	18.94	18.00	19.28	19.66	18.15	19.48	18.55	19.83	20.21
	6H	17.81	19.05	18.22	19.41	19.81	18.39	19.63	18.80	19.99	20.38
	8H	17.84	19.02	18.27	19.41	19.81	18.45	19.63	18.88	20.02	20.42
	12H	17.85	18.98	18.28	19.36	19.79	18.50	19.63	18.93	20.01	20.44
4H	2H	16.28	17.61	16.68	17.96	18.34	16.58	17.91	16.97	18.26	18.64
	3H	17.90	19.01	18.31	19.41	19.81	18.36	19.48	18.77	19.87	20.27
	4H	18.40	19.40	18.83	19.82	20.25	18.92	19.92	19.35	20.34	20.77
	6H	18.69	19.56	19.15	20.00	20.46	19.25	20.13	19.71	20.57	21.03
	8H	18.74	19.56	19.20	20.00	20.47	19.35	20.16	19.81	20.61	21.07
	12H	18.76	19.49	19.24	19.97	20.44	19.43	20.15	19.91	20.63	21.10
8H	4H	18.61	19.43	19.08	19.87	20.34	19.09	19.90	19.55	20.35	20.81
	6H	18.97	19.64	19.46	20.13	20.61	19.49	20.17	19.99	20.65	21.13
	8H	19.05	19.65	19.56	20.16	20.65	19.63	20.24	20.14	20.74	21.23
	12H	19.10	19.63	19.61	20.12	20.68	19.76	20.29	20.27	20.78	21.35
12H	4H	18.62	19.35	19.10	19.83	20.30	19.09	19.81	19.57	20.29	20.76
	6H	18.98	19.59	19.49	20.09	20.58	19.49	20.10	20.00	20.60	21.09
	8H	19.10	19.63	19.61	20.13	20.69	19.67	20.21	20.18	20.70	21.26