

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: P1499079

Luminaire Tested: MAE-G-4-120-1LO-STD-50

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499079
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-4-120-1LO-STD-50
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

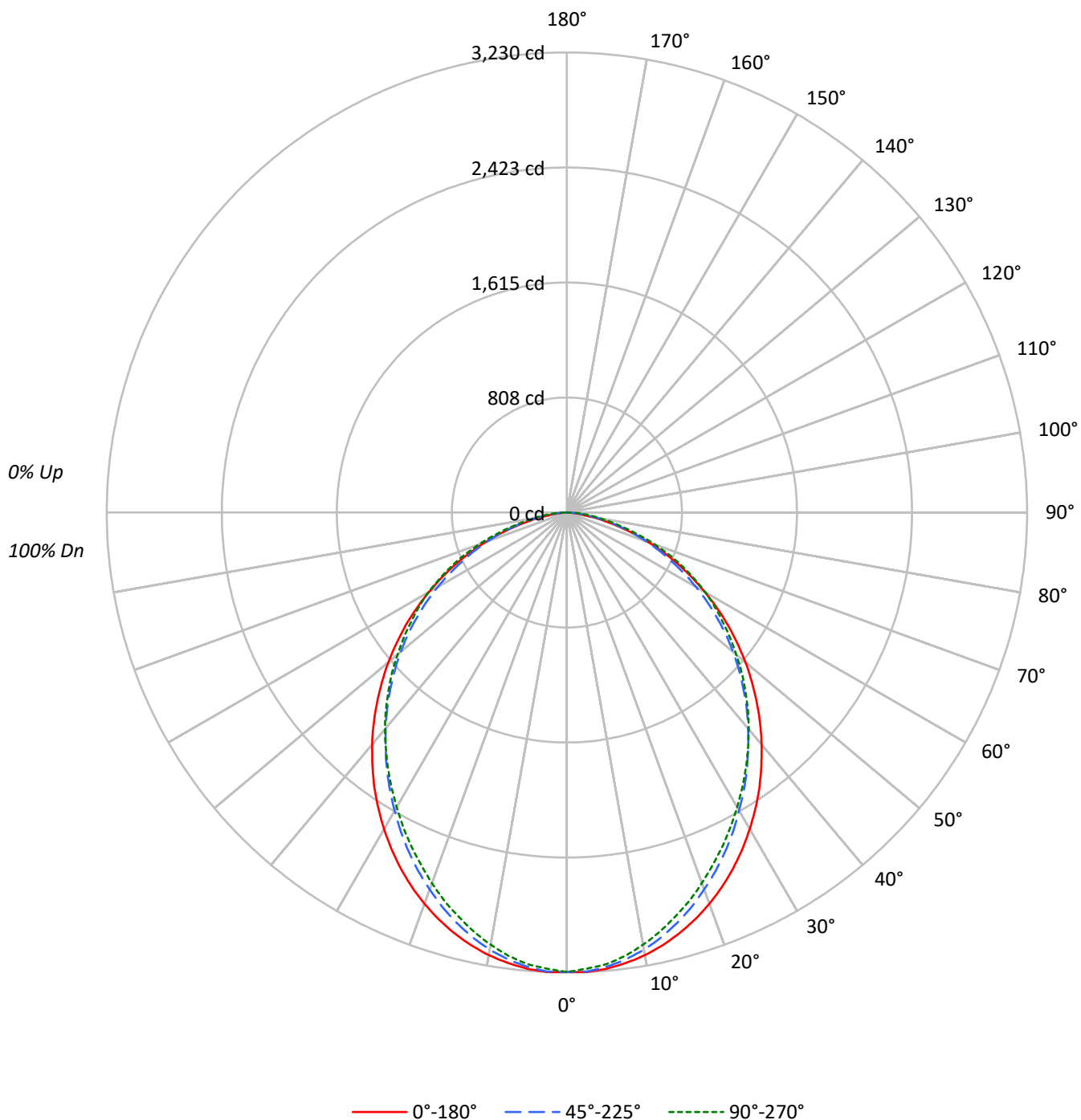
Lumens per Lamp: N/A
Luminaire Lumens: 7671.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	98	95	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	64		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°	4340	4340	4340
5°	4342	4324	4300
10°	4312	4258	4210
15°	4259	4157	4092
20°	4186	4033	3966
25°	4095	3901	3837
30°	3987	3755	3712
35°	3870	3618	3596
40°	3736	3475	3488
45°	3586	3335	3370
50°	3425	3186	3247
55°	3239	3016	3124
60°	3011	2821	3023
65°	2745	2577	2844
70°	2386	2336	2586
75°	1910	2025	2204
80°	1329	1616	1824
85°	746	1266	1680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3586 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	3.9
10°-20°	841.5	11.0
20°-30°	1218.8	15.9
30°-40°	1398.8	18.2
40°-50°	1381.0	18.0
50°-60°	1180.2	15.4
60°-70°	836.3	10.9
70°-80°	416.8	5.4
80°-90°	94.9	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°	2362.9	30.8
0°-40°	3761.8	49.0
0°-60°	6322.9	82.4
0°-90°	7671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3226	3226	3226	3226	3226	
5°	3215	3213	3202	3176	3184	305
15°	3057	3038	2984	2935	2938	862
25°	2759	2712	2627	2581	2584	1270
35°	2356	2291	2202	2180	2190	1472
45°	1884	1822	1752	1758	1771	1453
55°	1381	1324	1286	1309	1332	1233
65°	862	817	809	868	893	853
75°	368	348	390	420	424	396
85°	48	60	82	101	109	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3225.8	3225.8	3225.8	3225.8	3225.8
2.5°	3229.5	3232.5	3225.8	3200.4	3205.7
5°	3215.0	3212.6	3201.8	3176.4	3183.8
7.5°	3189.6	3184.7	3165.3	3134.8	3139.4
10°	3156.0	3146.1	3116.7	3078.1	3081.5
12.5°	3112.1	3098.3	3056.6	3011.8	3014.9
15°	3057.4	3037.8	2984.0	2935.3	2937.8
17.5°	2994.8	2971.3	2905.5	2852.5	2859.3
20°	2923.8	2892.6	2816.4	2764.7	2769.6
22.5°	2845.2	2806.4	2725.6	2674.3	2676.9
25°	2758.6	2712.0	2627.4	2581.1	2584.4
27.5°	2665.7	2614.0	2525.5	2481.9	2488.5
30°	2566.3	2510.2	2417.1	2382.0	2389.2
32.5°	2463.9	2403.9	2311.4	2283.1	2290.3
35°	2356.2	2291.0	2202.5	2179.8	2189.5
37.5°	2241.0	2177.7	2089.7	2079.4	2087.9
40°	2126.8	2061.3	1978.6	1974.4	1985.8
42.5°	2007.7	1944.0	1866.9	1867.3	1880.8
45°	1884.4	1822.1	1752.5	1758.5	1771.0
47.5°	1759.9	1698.8	1638.5	1648.1	1664.1
50°	1636.4	1577.1	1522.3	1537.4	1551.4
52.5°	1506.1	1449.7	1405.8	1422.8	1443.2
55°	1380.8	1323.6	1285.7	1309.0	1331.9
57.5°	1250.7	1201.8	1168.1	1199.8	1229.8
60°	1119.0	1071.3	1048.2	1093.5	1123.5
62.5°	989.5	943.1	927.1	984.5	1008.4
65°	862.3	817.0	809.4	867.7	893.3
67.5°	735.3	694.4	702.1	761.4	779.6
70°	606.6	569.8	593.9	646.1	657.4
72.5°	485.2	454.8	491.8	532.0	537.3
75°	367.5	347.9	389.5	419.7	423.9
77.5°	263.4	253.2	293.8	317.3	322.3
80°	171.5	175.0	208.5	228.1	235.4
82.5°	100.2	109.9	136.7	161.6	169.0
85°	48.3	59.9	82.0	100.8	108.8
87.5°	16.6	24.4	34.5	38.4	37.3
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	15.92	17.51	16.29	17.82	18.13	15.90	17.48	16.27	17.80	18.11
	3H	17.38	18.81	17.76	19.14	19.50	17.60	19.03	17.98	19.36	19.72
	4H	17.82	19.16	18.22	19.51	19.89	18.16	19.50	18.56	19.84	20.22
	6H	18.05	19.29	18.46	19.65	20.04	18.51	19.75	18.92	20.11	20.50
	8H	18.08	19.27	18.51	19.65	20.05	18.62	19.80	19.04	20.19	20.59
	12H	18.09	19.22	18.52	19.60	20.03	18.70	19.83	19.13	20.21	20.64
4H	2H	16.42	17.76	16.82	18.11	18.48	16.40	17.74	16.80	18.09	18.47
	3H	18.07	19.19	18.48	19.59	19.99	18.31	19.43	18.72	19.83	20.23
	4H	18.59	19.60	19.02	20.01	20.45	18.99	19.99	19.42	20.41	20.84
	6H	18.90	19.78	19.36	20.22	20.68	19.45	20.33	19.90	20.77	21.22
	8H	18.96	19.78	19.42	20.22	20.69	19.60	20.42	20.06	20.86	21.33
	12H	18.99	19.72	19.47	20.20	20.67	19.72	20.45	20.20	20.93	21.40
8H	4H	18.83	19.65	19.29	20.09	20.55	19.18	20.00	19.64	20.44	20.91
	6H	19.21	19.88	19.70	20.37	20.85	19.74	20.41	20.23	20.90	21.38
	8H	19.30	19.91	19.81	20.42	20.90	19.95	20.55	20.46	21.06	21.55
	12H	19.36	19.89	19.87	20.39	20.95	20.13	20.67	20.64	21.16	21.72
12H	4H	18.84	19.58	19.32	20.05	20.52	19.18	19.91	19.66	20.39	20.86
	6H	19.24	19.84	19.75	20.35	20.84	19.74	20.35	20.26	20.86	21.35
	8H	19.37	19.91	19.88	20.40	20.96	20.00	20.54	20.51	21.03	21.59