

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: P1499061

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499061
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-30
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

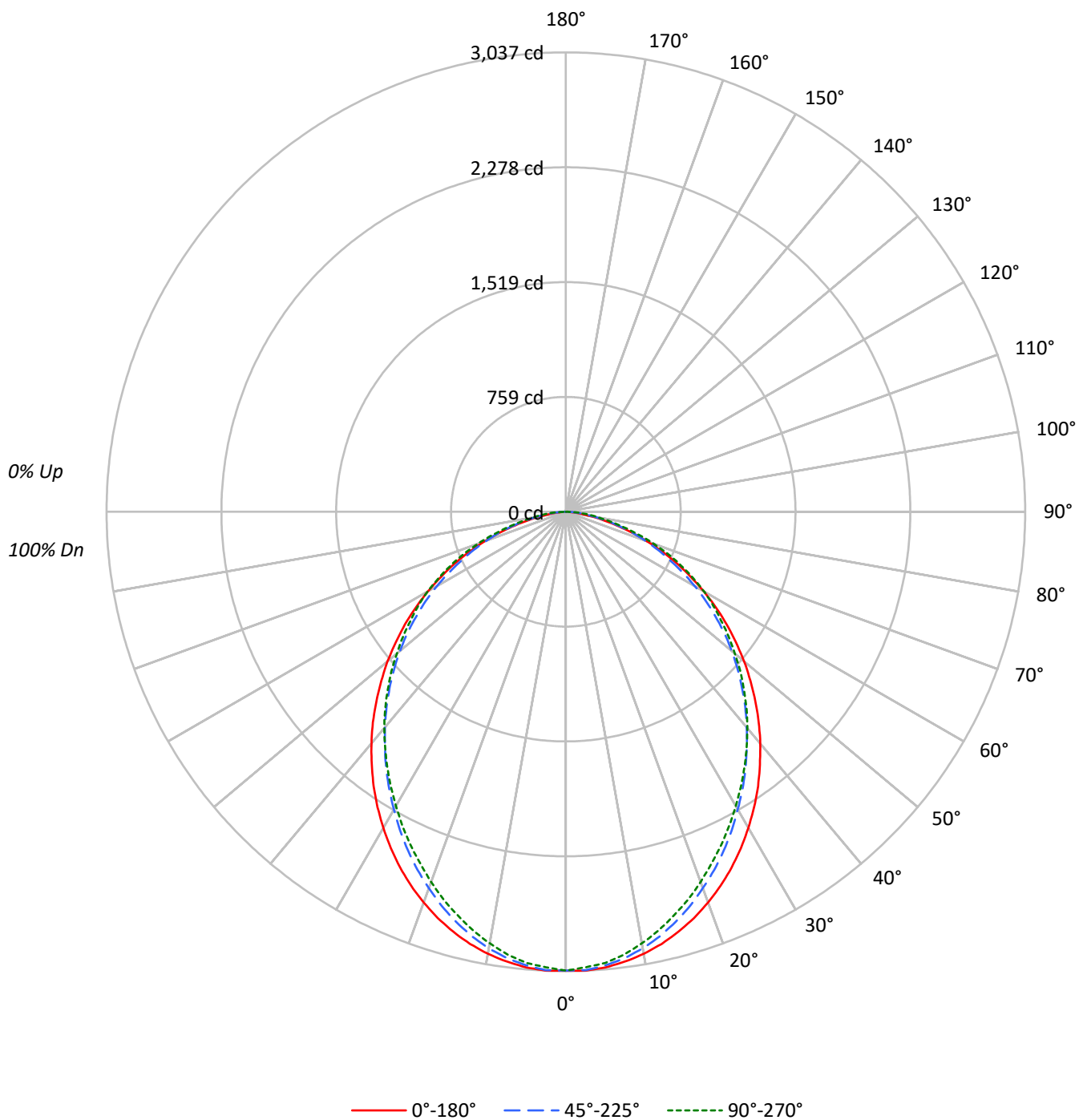
Lumens per Lamp: N/A
Luminaire Lumens: 7213.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4081	4081	4081
5°	4083	4066	4044
10°	4054	4004	3959
15°	4005	3908	3848
20°	3936	3792	3729
25°	3851	3668	3608
30°	3749	3531	3490
35°	3639	3402	3381
40°	3512	3268	3279
45°	3371	3136	3169
50°	3221	2996	3054
55°	3046	2836	2938
60°	2831	2652	2843
65°	2581	2423	2674
70°	2244	2197	2432
75°	1797	1904	2072
80°	1249	1519	1715
85°	702	1190	1579

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3371 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.5	3.9
10°-20°	791.3	11.0
20°-30°	1146.1	15.9
30°-40°	1315.3	18.2
40°-50°	1298.5	18.0
50°-60°	1109.7	15.4
60°-70°	786.4	10.9
70°-80°	391.9	5.4
80°-90°	89.3	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°	2221.9	30.8
0°-40°	3537.2	49.0
0°-60°	5945.4	82.4
0°-90°	7213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3033	3033	3033	3033	3033	
5°	3023	3021	3011	2987	2994	287
15°	2875	2856	2806	2760	2762	810
25°	2594	2550	2471	2427	2430	1194
35°	2216	2154	2071	2050	2059	1384
45°	1772	1713	1648	1654	1665	1367
55°	1298	1245	1209	1231	1252	1159
65°	811	768	761	816	840	802
75°	346	327	366	395	398	373
85°	46	56	77	95	102	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3033.3	3033.3	3033.3	3033.3	3033.3
2.5°	3036.7	3039.5	3033.3	3009.3	3014.3
5°	3023.1	3020.8	3010.7	2986.8	2993.8
7.5°	2999.2	2994.6	2976.4	2947.5	2952.0
10°	2967.5	2958.2	2930.7	2894.3	2897.4
12.5°	2926.3	2913.3	2874.1	2832.0	2834.8
15°	2874.9	2856.4	2805.8	2760.0	2762.4
17.5°	2816.0	2793.9	2732.0	2682.2	2688.7
20°	2749.2	2719.9	2648.2	2599.6	2604.2
22.5°	2675.3	2638.9	2562.8	2514.7	2517.0
25°	2594.0	2550.1	2470.6	2427.0	2430.1
27.5°	2506.6	2457.9	2374.8	2333.7	2339.9
30°	2413.1	2360.4	2272.8	2239.8	2246.5
32.5°	2316.8	2260.4	2173.3	2146.8	2153.5
35°	2215.5	2154.3	2071.0	2049.7	2058.7
37.5°	2107.3	2047.8	1964.9	1955.2	1963.3
40°	1999.8	1938.3	1860.6	1856.6	1867.1
42.5°	1887.9	1827.9	1755.4	1755.8	1768.6
45°	1771.8	1713.4	1647.9	1653.6	1665.2
47.5°	1654.8	1597.4	1540.6	1549.6	1564.8
50°	1538.7	1482.9	1431.4	1445.6	1458.8
52.5°	1416.2	1363.2	1321.9	1337.8	1357.0
55°	1298.3	1244.6	1208.9	1230.9	1252.4
57.5°	1176.0	1130.0	1098.3	1128.1	1156.4
60°	1052.2	1007.3	985.6	1028.2	1056.4
62.5°	930.5	886.9	871.7	925.7	948.2
65°	810.8	768.2	761.2	815.9	840.0
67.5°	691.3	652.9	660.1	715.9	733.1
70°	570.4	535.9	558.4	607.5	618.1
72.5°	456.2	427.6	462.4	500.2	505.3
75°	345.6	327.2	366.3	394.7	398.5
77.5°	247.7	238.0	276.2	298.4	303.1
80°	161.2	164.5	196.1	214.5	221.3
82.5°	94.3	103.4	128.6	152.0	159.0
85°	45.5	56.4	77.1	94.8	102.3
87.5°	15.6	22.9	32.4	36.1	35.1
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	15.71	17.29	16.07	17.61	17.92	15.69	17.27	16.05	17.58	17.90
	3H	17.17	18.60	17.55	18.92	19.28	17.39	18.82	17.77	19.14	19.50
	4H	17.61	18.95	18.01	19.29	19.67	17.94	19.28	18.34	19.63	20.01
	6H	17.83	19.07	18.24	19.44	19.83	18.29	19.53	18.71	19.90	20.29
	8H	17.87	19.05	18.30	19.44	19.84	18.40	19.59	18.83	19.98	20.38
	12H	17.88	19.01	18.31	19.39	19.82	18.48	19.62	18.91	20.00	20.43
4H	2H	16.21	17.54	16.60	17.89	18.27	16.19	17.53	16.59	17.88	18.25
	3H	17.86	18.97	18.27	19.37	19.77	18.10	19.22	18.51	19.61	20.01
	4H	18.38	19.39	18.81	19.80	20.24	18.77	19.78	19.20	20.19	20.63
	6H	18.69	19.57	19.14	20.01	20.46	19.24	20.11	19.69	20.55	21.01
	8H	18.75	19.57	19.21	20.01	20.48	19.39	20.20	19.85	20.65	21.11
	12H	18.77	19.51	19.26	19.98	20.45	19.51	20.24	19.99	20.72	21.19
8H	4H	18.61	19.43	19.07	19.87	20.34	18.97	19.78	19.43	20.23	20.69
	6H	18.99	19.67	19.49	20.16	20.64	19.52	20.20	20.02	20.69	21.16
	8H	19.09	19.69	19.60	20.20	20.69	19.73	20.34	20.24	20.85	21.33
	12H	19.14	19.68	19.65	20.17	20.73	19.92	20.46	20.43	20.95	21.51
12H	4H	18.63	19.36	19.11	19.84	20.31	18.97	19.70	19.45	20.18	20.65
	6H	19.02	19.63	19.53	20.14	20.62	19.53	20.14	20.04	20.65	21.13
	8H	19.16	19.69	19.67	20.19	20.75	19.79	20.33	20.30	20.82	21.38