

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: P1498986

Luminaire Tested: MAE-G-4-120-1LO-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498986
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-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

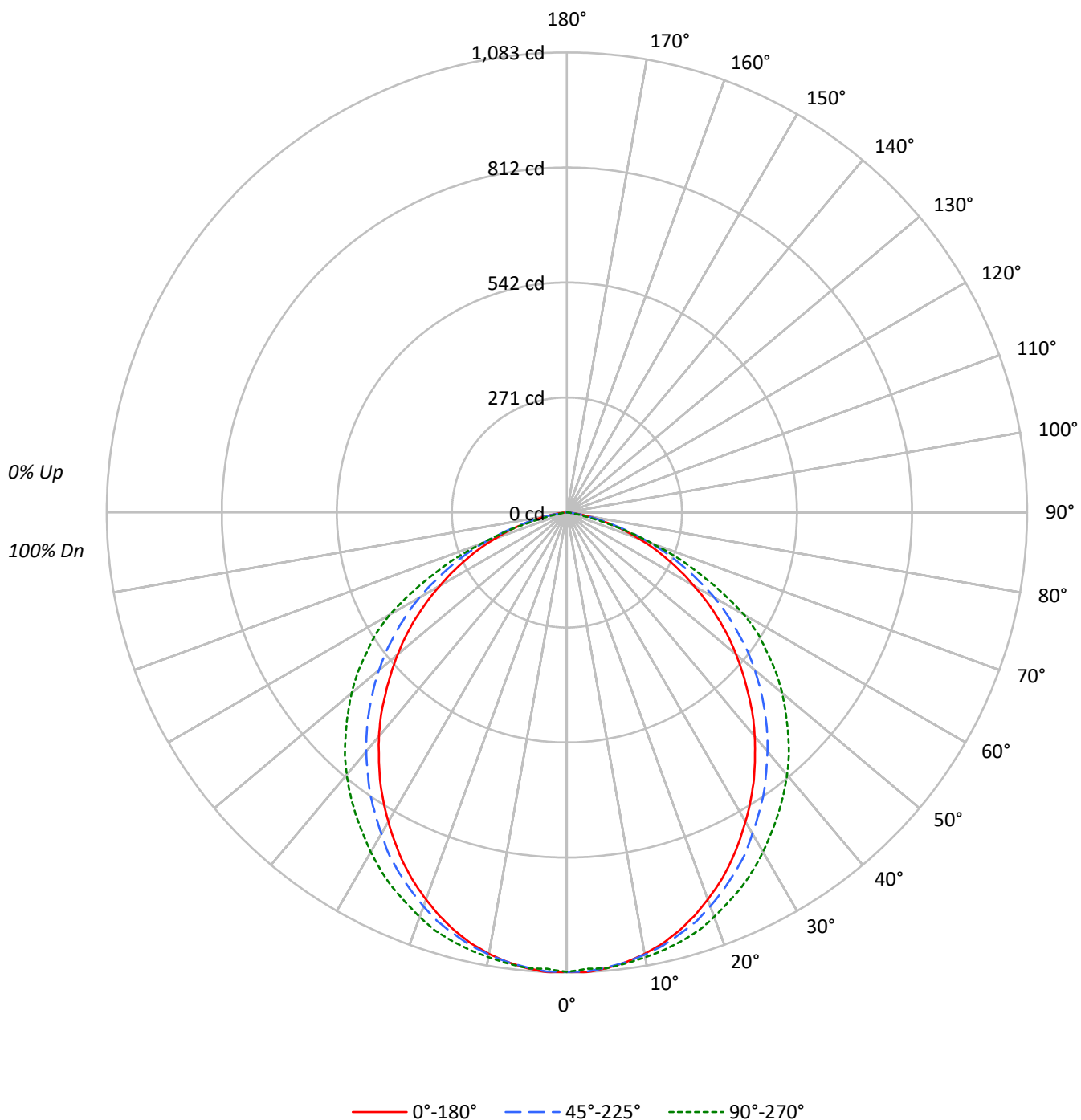
Lumens per Lamp: N/A
Luminaire Lumens: 2723.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	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	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°	1455	1455	1455
5°	1454	1452	1454
10°	1442	1444	1452
15°	1420	1431	1455
20°	1388	1413	1451
25°	1352	1389	1444
30°	1306	1356	1434
35°	1260	1327	1424
40°	1208	1290	1416
45°	1149	1253	1401
50°	1088	1209	1384
55°	1019	1150	1351
60°	930	1080	1298
65°	833	966	1115
70°	710	814	851
75°	550	591	477
80°	362	314	169
85°	193	144	96

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.8
10°-20°	290.3	10.7
20°-30°	431.6	15.9
30°-40°	507.5	18.6
40°-50°	512.2	18.8
50°-60°	444.7	16.3
60°-70°	302.7	11.1
70°-80°	117.9	4.3
80°-90°	14.1	0.5
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°	824.0	30.3
0°-40°	1331.5	48.9
0°-60°	2288.3	84.0
0°-90°	2723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1077	1075	1075	1075	1077	102
15°	1019	1021	1027	1038	1044	287
25°	910	915	935	959	973	419
35°	767	777	808	845	867	479
45°	604	619	658	710	736	466
55°	434	448	490	546	576	388
65°	262	274	304	336	350	260
75°	106	112	114	103	92	115
85°	12	12	9	8	6	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.6	1081.6	1081.6	1081.6	1081.6
2.5°	1083.2	1083.2	1081.6	1076.9	1075.4
5°	1076.9	1075.4	1075.4	1075.4	1076.9
7.5°	1067.6	1067.6	1067.6	1069.1	1070.7
10°	1055.1	1055.1	1056.7	1059.8	1062.9
12.5°	1039.6	1041.1	1044.2	1050.5	1055.1
15°	1019.3	1020.9	1027.1	1038.0	1044.2
17.5°	996.0	1000.7	1010.0	1022.5	1031.8
20°	969.5	974.2	986.7	1002.2	1013.1
22.5°	941.5	946.2	961.8	980.4	992.9
25°	910.4	915.1	935.3	958.7	972.7
27.5°	876.2	882.4	907.3	932.2	949.3
30°	840.4	848.2	873.1	904.2	922.9
32.5°	804.6	813.9	840.4	876.2	894.8
35°	767.2	776.6	807.7	845.0	866.8
37.5°	726.8	737.7	770.3	815.5	837.3
40°	687.9	698.8	734.6	782.8	806.1
42.5°	647.4	659.9	697.2	747.0	773.5
45°	603.8	619.4	658.3	709.7	736.1
47.5°	561.8	575.8	617.8	670.7	698.8
50°	519.8	535.4	577.4	631.8	661.4
52.5°	477.8	491.8	535.4	589.8	620.9
55°	434.2	448.2	490.2	546.2	575.8
57.5°	390.6	407.7	446.6	501.1	533.8
60°	345.5	361.1	401.5	456.0	482.4
62.5°	303.5	317.5	351.7	403.1	415.5
65°	261.5	273.9	303.5	336.2	350.2
67.5°	222.5	231.9	258.3	280.1	286.4
70°	180.5	189.9	207.0	219.4	216.3
72.5°	143.2	149.4	160.3	158.7	151.0
75°	105.8	112.1	113.6	102.7	91.8
77.5°	74.7	77.8	73.1	57.6	46.7
80°	46.7	48.2	40.5	24.9	21.8
82.5°	26.5	26.5	18.7	15.6	12.5
85°	12.5	12.5	9.3	7.8	6.2
87.5°	4.7	4.7	3.1	3.1	3.1
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	11.91	13.49	12.27	13.80	14.11	13.49	15.07	13.85	15.38	15.69
	3H	13.24	14.66	13.62	14.99	15.35	14.76	16.17	15.13	16.50	16.86
	4H	13.61	14.94	14.01	15.29	15.67	14.95	16.28	15.35	16.63	17.01
	6H	13.77	15.00	14.19	15.37	15.76	14.95	16.18	15.36	16.54	16.93
	8H	13.79	14.96	14.22	15.35	15.75	14.92	16.09	15.35	16.48	16.88
	12H	13.78	14.90	14.21	15.28	15.71	14.90	16.02	15.33	16.40	16.83
4H	2H	12.57	13.90	12.97	14.25	14.63	13.86	15.19	14.26	15.54	15.92
	3H	14.07	15.17	14.48	15.57	15.97	15.30	16.40	15.71	16.80	17.20
	4H	14.51	15.50	14.94	15.92	16.35	15.55	16.54	15.99	16.96	17.40
	6H	14.74	15.60	15.19	16.04	16.50	15.58	16.44	16.04	16.88	17.34
	8H	14.76	15.56	15.22	16.01	16.47	15.56	16.36	16.02	16.80	17.27
	12H	14.77	15.48	15.25	15.96	16.43	15.53	16.25	16.02	16.73	17.20
8H	4H	14.67	15.47	15.13	15.91	16.38	15.64	16.44	16.10	16.88	17.35
	6H	14.93	15.59	15.43	16.08	16.56	15.67	16.33	16.17	16.82	17.30
	8H	14.97	15.56	15.48	16.07	16.56	15.65	16.24	16.16	16.74	17.23
	12H	14.99	15.51	15.50	16.00	16.57	15.63	16.15	16.14	16.64	17.21
12H	4H	14.65	15.37	15.13	15.84	16.31	15.62	16.34	16.11	16.82	17.29
	6H	14.90	15.49	15.41	16.00	16.49	15.65	16.24	16.16	16.74	17.23
	8H	14.97	15.49	15.48	15.98	16.54	15.64	16.16	16.15	16.65	17.22