

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: P1498992

Luminaire Tested: MAE-G-4-120-1LO-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498992
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-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

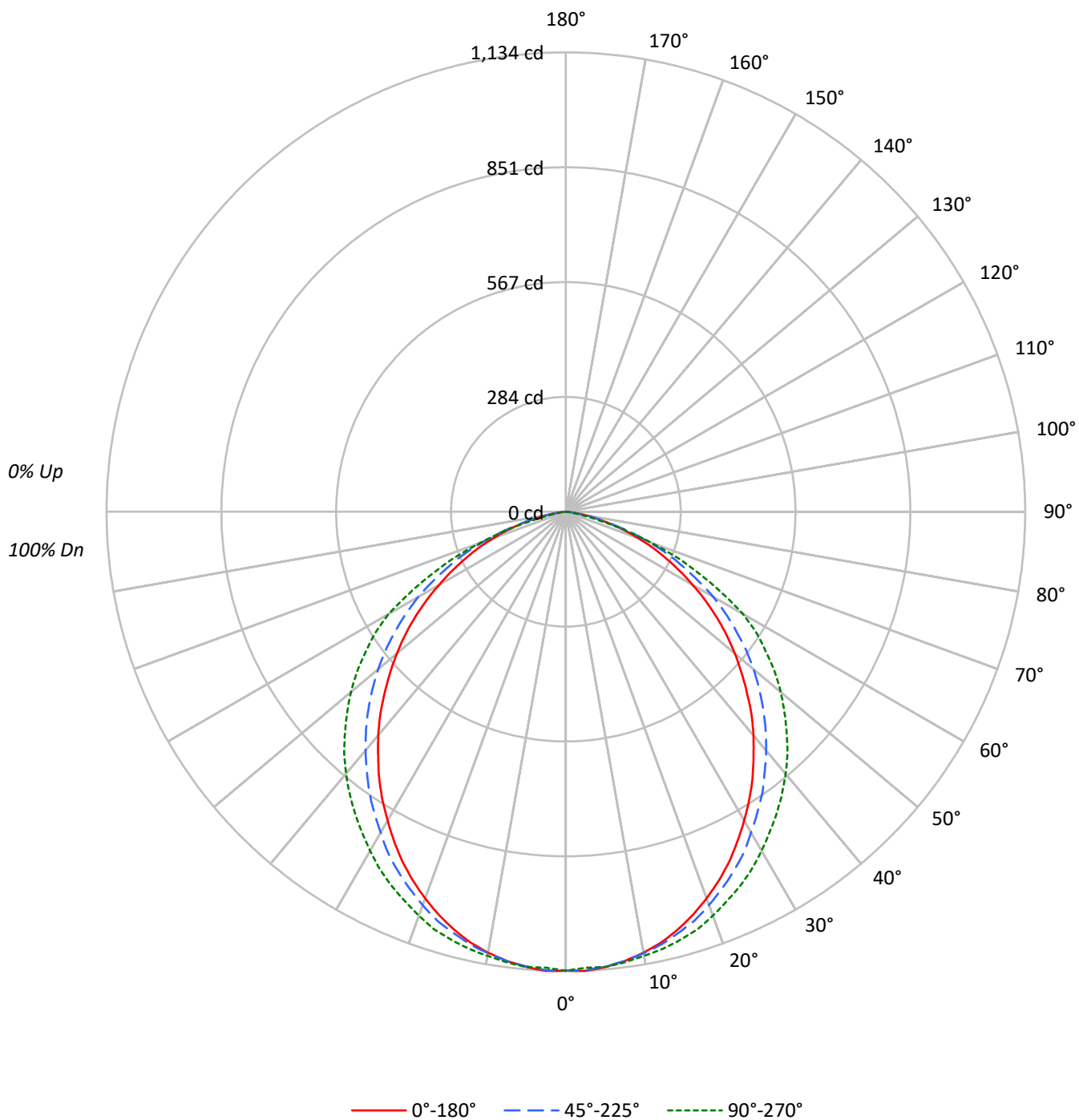
Lumens per Lamp: N/A
Luminaire Lumens: 2852.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1524	1524	1524
5°	1523	1521	1523
10°	1510	1512	1521
15°	1487	1499	1523
20°	1454	1480	1519
25°	1416	1454	1512
30°	1368	1421	1502
35°	1320	1390	1491
40°	1265	1351	1483
45°	1203	1312	1467
50°	1140	1266	1450
55°	1067	1204	1415
60°	974	1132	1360
65°	872	1012	1167
70°	744	853	891
75°	576	619	500
80°	379	329	177
85°	201	151	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1467 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.8
10°-20°	304.0	10.7
20°-30°	452.1	15.9
30°-40°	531.5	18.6
40°-50°	536.4	18.8
50°-60°	465.8	16.3
60°-70°	317.0	11.1
70°-80°	123.5	4.3
80°-90°	14.8	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°	863.0	30.3
0°-40°	1394.5	48.9
0°-60°	2396.7	84.0
0°-90°	2852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1128	1126	1126	1126	1128	107
15°	1068	1069	1076	1087	1094	301
25°	954	958	980	1004	1019	438
35°	804	813	846	885	908	502
45°	632	649	690	743	771	488
55°	455	469	513	572	603	406
65°	274	287	318	352	367	272
75°	111	117	119	108	96	121
85°	13	13	10	8	6	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.8	1132.8	1132.8	1132.8	1132.8
2.5°	1134.5	1134.5	1132.8	1127.9	1126.3
5°	1127.9	1126.3	1126.3	1126.3	1127.9
7.5°	1118.2	1118.2	1118.2	1119.8	1121.4
10°	1105.1	1105.1	1106.8	1110.0	1113.3
12.5°	1088.8	1090.5	1093.7	1100.2	1105.1
15°	1067.6	1069.3	1075.8	1087.2	1093.7
17.5°	1043.2	1048.1	1057.9	1070.9	1080.7
20°	1015.5	1020.4	1033.4	1049.7	1061.1
22.5°	986.1	991.0	1007.3	1026.9	1039.9
25°	953.5	958.4	979.6	1004.1	1018.7
27.5°	917.7	924.2	950.3	976.4	994.3
30°	880.2	888.3	914.4	947.0	966.6
32.5°	842.7	852.5	880.2	917.7	937.2
35°	803.6	813.4	846.0	885.1	907.9
37.5°	761.2	772.6	806.8	854.1	876.9
40°	720.5	731.9	769.4	819.9	844.3
42.5°	678.1	691.1	730.2	782.4	810.1
45°	632.4	648.7	689.5	743.3	771.0
47.5°	588.4	603.1	647.1	702.5	731.9
50°	544.4	560.7	604.7	661.8	692.7
52.5°	500.4	515.1	560.7	617.8	650.4
55°	454.8	469.4	513.4	572.1	603.1
57.5°	409.1	427.1	467.8	524.9	559.1
60°	361.9	378.2	420.5	477.6	505.3
62.5°	317.8	332.5	368.4	422.2	435.2
65°	273.8	286.9	317.8	352.1	366.7
67.5°	233.1	242.9	270.6	293.4	299.9
70°	189.1	198.9	216.8	229.8	226.6
72.5°	150.0	156.5	167.9	166.3	158.1
75°	110.8	117.4	119.0	107.6	96.2
77.5°	78.2	81.5	76.6	60.3	48.9
80°	48.9	50.5	42.4	26.1	22.8
82.5°	27.7	27.7	19.6	16.3	13.0
85°	13.0	13.0	9.8	8.1	6.5
87.5°	4.9	4.9	3.3	3.3	3.3
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	12.07	13.65	12.43	13.96	14.28	13.65	15.23	14.01	15.54	15.86
	3H	13.41	14.82	13.78	15.15	15.51	14.92	16.33	15.29	16.66	17.02
	4H	13.77	15.10	14.17	15.45	15.83	15.11	16.44	15.51	16.79	17.17
	6H	13.94	15.16	14.35	15.53	15.92	15.11	16.34	15.52	16.70	17.09
	8H	13.95	15.12	14.38	15.51	15.91	15.08	16.25	15.51	16.64	17.04
	12H	13.94	15.06	14.37	15.45	15.87	15.06	16.18	15.49	16.56	16.99
4H	2H	12.73	14.06	13.13	14.41	14.79	14.03	15.35	14.42	15.70	16.08
	3H	14.23	15.33	14.64	15.73	16.13	15.46	16.56	15.87	16.96	17.36
	4H	14.67	15.66	15.11	16.08	16.52	15.72	16.71	16.15	17.12	17.56
	6H	14.90	15.76	15.36	16.20	16.66	15.74	16.60	16.20	17.04	17.50
	8H	14.92	15.72	15.39	16.17	16.63	15.72	16.52	16.18	16.96	17.43
	12H	14.93	15.64	15.41	16.12	16.59	15.69	16.41	16.18	16.89	17.36
8H	4H	14.83	15.63	15.29	16.08	16.54	15.80	16.60	16.26	17.04	17.51
	6H	15.09	15.75	15.59	16.24	16.72	15.83	16.49	16.33	16.98	17.46
	8H	15.13	15.72	15.65	16.23	16.72	15.81	16.40	16.32	16.91	17.39
	12H	15.15	15.67	15.66	16.16	16.73	15.79	16.31	16.30	16.80	17.37
12H	4H	14.81	15.53	15.29	16.01	16.48	15.79	16.50	16.27	16.98	17.45
	6H	15.06	15.65	15.57	16.16	16.65	15.81	16.40	16.32	16.91	17.39
	8H	15.13	15.65	15.64	16.14	16.71	15.80	16.32	16.31	16.82	17.38

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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