

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: P1498125

Luminaire Tested: MAE-G-2-120-1LO-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498125
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-2-120-1LO-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

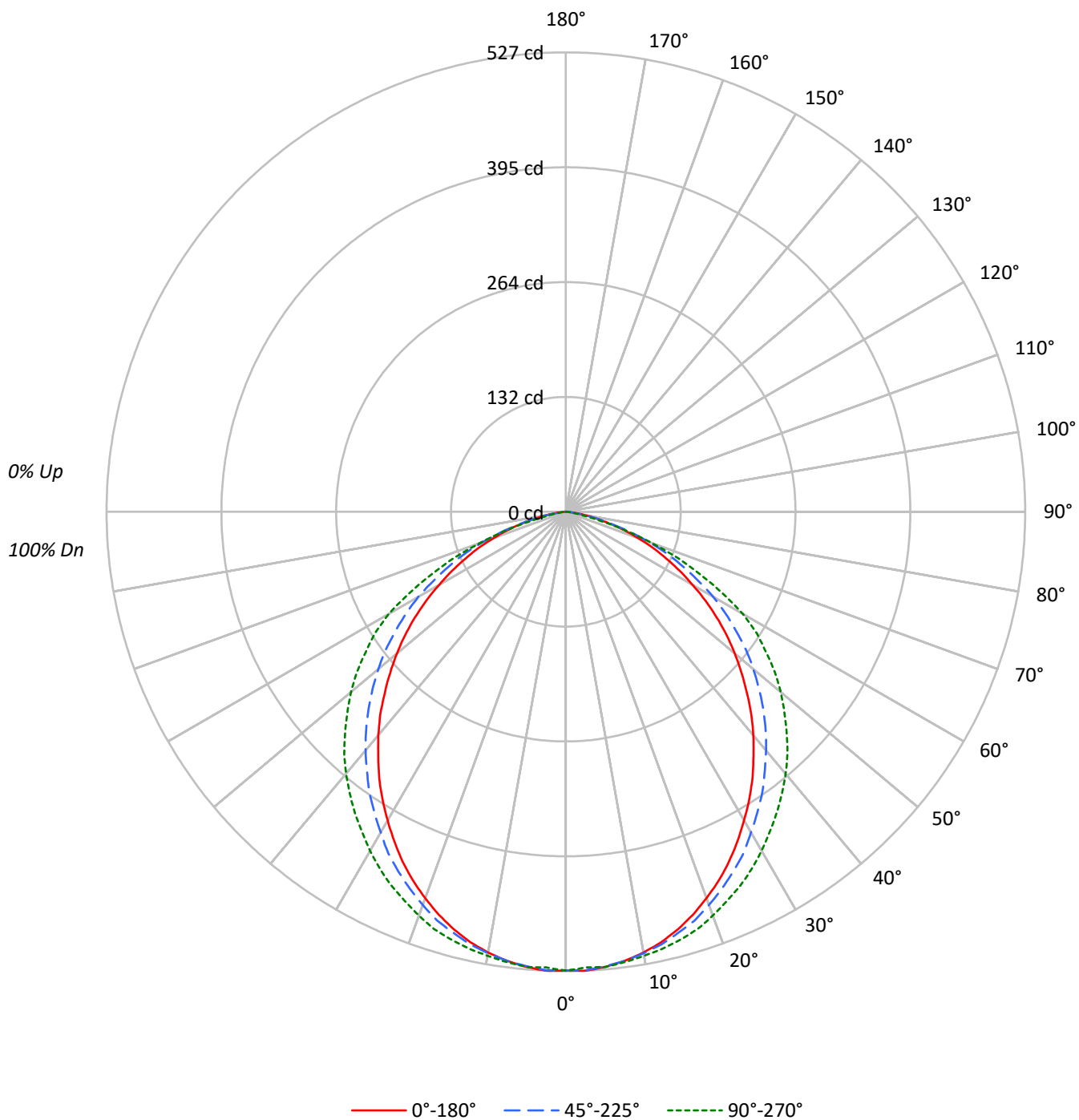
Lumens per Lamp: N/A
Luminaire Lumens: 1325.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 12.2
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°	1416	1416	1416
5°	1415	1414	1415
10°	1403	1405	1413
15°	1382	1392	1416
20°	1351	1375	1412
25°	1315	1351	1405
30°	1271	1320	1395
35°	1226	1291	1386
40°	1176	1255	1378
45°	1118	1219	1363
50°	1059	1176	1347
55°	991	1119	1315
60°	905	1052	1264
65°	810	940	1085
70°	691	792	828
75°	535	575	465
80°	352	305	164
85°	188	139	93

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1363 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	3.8
10°-20°	141.3	10.7
20°-30°	210.0	15.9
30°-40°	246.9	18.6
40°-50°	249.2	18.8
50°-60°	216.4	16.3
60°-70°	147.3	11.1
70°-80°	57.4	4.3
80°-90°	6.9	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°	401.0	30.3
0°-40°	647.9	48.9
0°-60°	1113.5	84.0
0°-90°	1325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	524	523	523	523	524	50
15°	496	497	500	505	508	140
25°	443	445	455	466	473	204
35°	373	378	393	411	422	233
45°	294	301	320	345	358	227
55°	211	218	238	266	280	189
65°	127	133	148	164	170	126
75°	52	54	55	50	45	56
85°	6	6	4	4	3	9
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	526.3	526.3	526.3	526.3	526.3
2.5°	527.1	527.1	526.3	524.0	523.3
5°	524.0	523.3	523.3	523.3	524.0
7.5°	519.5	519.5	519.5	520.2	521.0
10°	513.4	513.4	514.2	515.7	517.2
12.5°	505.9	506.6	508.1	511.2	513.4
15°	496.0	496.8	499.8	505.1	508.1
17.5°	484.7	486.9	491.5	497.5	502.1
20°	471.8	474.0	480.1	487.7	493.0
22.5°	458.1	460.4	468.0	477.1	483.1
25°	443.0	445.3	455.1	466.5	473.3
27.5°	426.3	429.4	441.5	453.6	461.9
30°	408.9	412.7	424.8	440.0	449.1
32.5°	391.5	396.1	408.9	426.3	435.4
35°	373.3	377.9	393.0	411.2	421.8
37.5°	353.6	358.9	374.8	396.8	407.4
40°	334.7	340.0	357.4	380.9	392.3
42.5°	315.0	321.1	339.3	363.5	376.4
45°	293.8	301.4	320.3	345.3	358.2
47.5°	273.4	280.2	300.6	326.4	340.0
50°	252.9	260.5	280.9	307.5	321.8
52.5°	232.5	239.3	260.5	287.0	302.1
55°	211.3	218.1	238.5	265.8	280.2
57.5°	190.1	198.4	217.3	243.8	259.7
60°	168.1	175.7	195.4	221.9	234.8
62.5°	147.7	154.5	171.1	196.1	202.2
65°	127.2	133.3	147.7	163.6	170.4
67.5°	108.3	112.8	125.7	136.3	139.3
70°	87.8	92.4	100.7	106.8	105.3
72.5°	69.7	72.7	78.0	77.2	73.5
75°	51.5	54.5	55.3	50.0	44.7
77.5°	36.3	37.9	35.6	28.0	22.7
80°	22.7	23.5	19.7	12.1	10.6
82.5°	12.9	12.9	9.1	7.6	6.1
85°	6.1	6.1	4.5	3.8	3.0
87.5°	2.3	2.3	1.5	1.5	1.5
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	11.81	13.39	12.18	13.71	14.02	13.39	14.97	13.76	15.28	15.60
	3H	13.15	14.57	13.53	14.89	15.25	14.66	16.08	15.04	16.41	16.77
	4H	13.52	14.85	13.92	15.19	15.57	14.86	16.19	15.26	16.53	16.91
	6H	13.68	14.91	14.09	15.27	15.67	14.85	16.08	15.27	16.45	16.84
	8H	13.70	14.86	14.12	15.25	15.65	14.83	16.00	15.25	16.39	16.79
	12H	13.69	14.81	14.12	15.19	15.62	14.80	15.92	15.23	16.30	16.73
4H	2H	12.48	13.81	12.88	14.16	14.53	13.77	15.10	14.17	15.45	15.82
	3H	13.98	15.08	14.39	15.48	15.88	15.21	16.31	15.62	16.71	17.11
	4H	14.42	15.41	14.85	15.82	16.26	15.46	16.45	15.89	16.86	17.30
	6H	14.64	15.50	15.10	15.94	16.40	15.49	16.35	15.94	16.79	17.25
	8H	14.67	15.47	15.13	15.91	16.38	15.46	16.26	15.92	16.70	17.17
	12H	14.67	15.39	15.15	15.86	16.33	15.44	16.15	15.92	16.63	17.10
8H	4H	14.58	15.38	15.04	15.82	16.29	15.54	16.35	16.01	16.79	17.26
	6H	14.84	15.49	15.33	15.98	16.46	15.58	16.24	16.07	16.73	17.20
	8H	14.88	15.47	15.39	15.98	16.46	15.55	16.14	16.06	16.65	17.14
	12H	14.90	15.42	15.41	15.91	16.47	15.54	16.06	16.05	16.55	17.11
12H	4H	14.56	15.27	15.04	15.75	16.22	15.53	16.25	16.01	16.72	17.19
	6H	14.81	15.40	15.32	15.91	16.39	15.55	16.14	16.06	16.65	17.14
	8H	14.88	15.39	15.38	15.89	16.45	15.55	16.07	16.06	16.56	17.12