

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: P1498128

Luminaire Tested: MAE-G-2-120-1LO-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498128
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-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

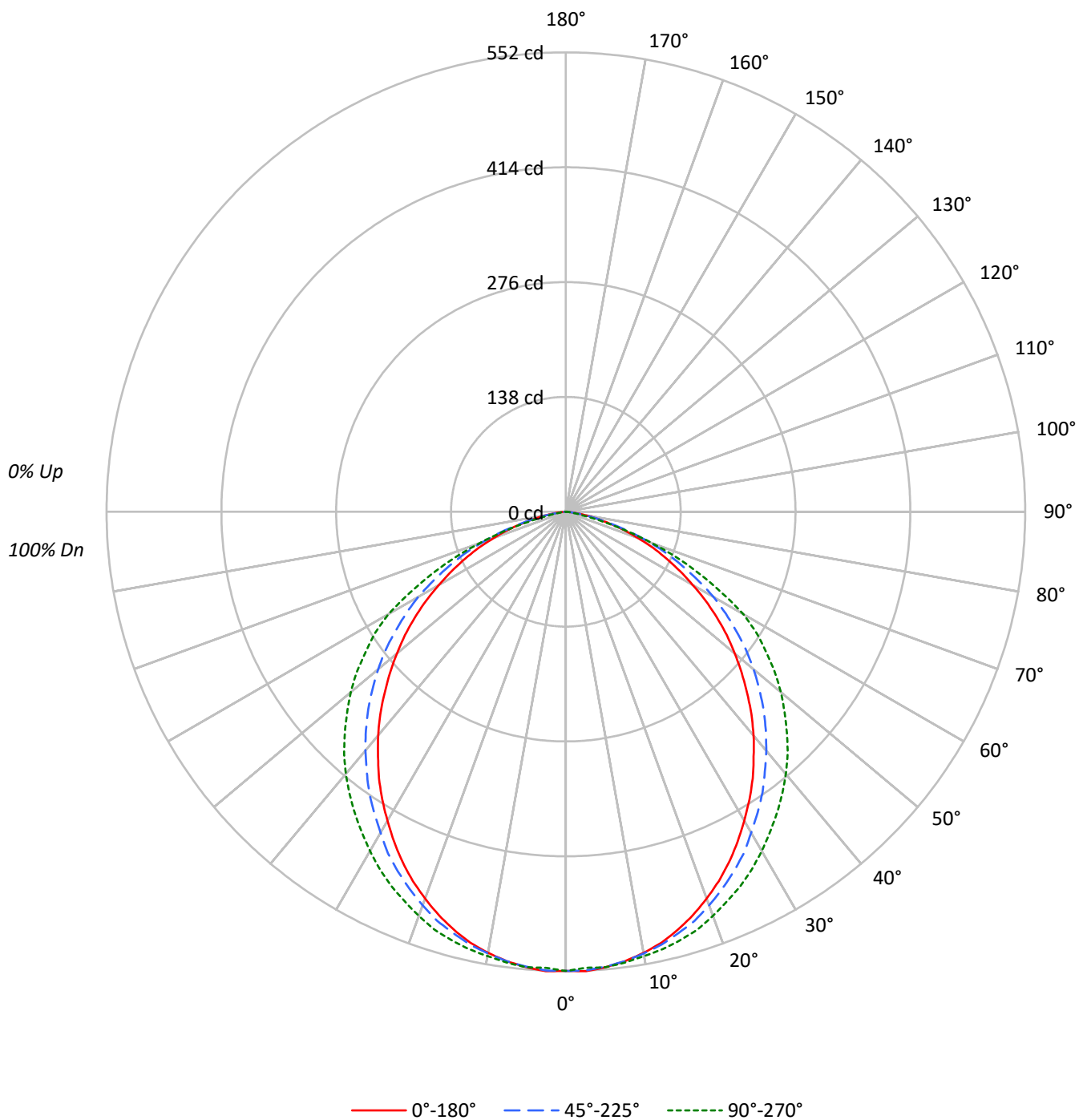
Lumens per Lamp: N/A
Luminaire Lumens: 1389.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1485	1485	1485
5°	1484	1482	1484
10°	1471	1473	1482
15°	1449	1460	1484
20°	1416	1441	1480
25°	1379	1417	1473
30°	1332	1384	1463
35°	1286	1353	1453
40°	1233	1316	1444
45°	1172	1278	1429
50°	1110	1233	1412
55°	1039	1173	1378
60°	948	1102	1324
65°	849	986	1137
70°	725	831	868
75°	561	603	487
80°	369	319	172
85°	198	148	99

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1429 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	3.8
10°-20°	148.1	10.7
20°-30°	220.2	15.9
30°-40°	258.9	18.6
40°-50°	261.2	18.8
50°-60°	226.8	16.3
60°-70°	154.4	11.1
70°-80°	60.1	4.3
80°-90°	7.2	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°	420.3	30.3
0°-40°	679.2	48.9
0°-60°	1167.3	84.0
0°-90°	1389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	549	548	548	548	549	52
15°	520	521	524	530	533	146
25°	464	467	477	489	496	214
35°	391	396	412	431	442	244
45°	308	316	336	362	376	238
55°	222	229	250	279	294	198
65°	133	140	155	172	179	132
75°	54	57	58	52	47	59
85°	6	6	5	4	3	9
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.7	551.7	551.7	551.7	551.7
2.5°	552.5	552.5	551.7	549.3	548.5
5°	549.3	548.5	548.5	548.5	549.3
7.5°	544.6	544.6	544.6	545.4	546.2
10°	538.2	538.2	539.0	540.6	542.2
12.5°	530.3	531.1	532.7	535.8	538.2
15°	520.0	520.8	523.9	529.5	532.7
17.5°	508.1	510.4	515.2	521.6	526.3
20°	494.6	496.9	503.3	511.2	516.8
22.5°	480.3	482.7	490.6	500.1	506.5
25°	464.4	466.8	477.1	489.0	496.2
27.5°	446.9	450.1	462.8	475.5	484.2
30°	428.7	432.6	445.3	461.2	470.7
32.5°	410.4	415.2	428.7	446.9	456.5
35°	391.4	396.1	412.0	431.1	442.2
37.5°	370.7	376.3	393.0	416.0	427.1
40°	350.9	356.4	374.7	399.3	411.2
42.5°	330.2	336.6	355.6	381.0	394.5
45°	308.0	315.9	335.8	362.0	375.5
47.5°	286.6	293.7	315.2	342.1	356.4
50°	265.1	273.1	294.5	322.3	337.4
52.5°	243.7	250.9	273.1	300.9	316.7
55°	221.5	228.6	250.1	278.6	293.7
57.5°	199.3	208.0	227.8	255.6	272.3
60°	176.2	184.2	204.8	232.6	246.1
62.5°	154.8	161.9	179.4	205.6	212.0
65°	133.4	139.7	154.8	171.5	178.6
67.5°	113.5	118.3	131.8	142.9	146.1
70°	92.1	96.8	105.6	111.9	110.3
72.5°	73.0	76.2	81.8	81.0	77.0
75°	54.0	57.2	58.0	52.4	46.8
77.5°	38.1	39.7	37.3	29.4	23.8
80°	23.8	24.6	20.6	12.7	11.1
82.5°	13.5	13.5	9.5	7.9	6.4
85°	6.4	6.4	4.8	4.0	3.2
87.5°	2.4	2.4	1.6	1.6	1.6
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	11.98	13.56	12.34	13.87	14.18	13.56	15.14	13.92	15.45	15.76
	3H	13.31	14.73	13.69	15.06	15.42	14.83	16.24	15.20	16.57	16.93
	4H	13.68	15.01	14.08	15.36	15.74	15.02	16.35	15.42	16.70	17.08
	6H	13.84	15.07	14.26	15.44	15.83	15.02	16.25	15.43	16.61	17.00
	8H	13.86	15.03	14.29	15.42	15.82	14.99	16.16	15.42	16.55	16.95
	12H	13.85	14.97	14.28	15.35	15.78	14.97	16.09	15.40	16.47	16.90
4H	2H	12.64	13.97	13.04	14.32	14.70	13.93	15.26	14.33	15.61	15.99
	3H	14.14	15.24	14.55	15.64	16.04	15.37	16.47	15.78	16.87	17.27
	4H	14.58	15.57	15.01	15.99	16.42	15.62	16.61	16.06	17.03	17.47
	6H	14.81	15.67	15.26	16.11	16.57	15.65	16.51	16.11	16.95	17.41
	8H	14.83	15.63	15.29	16.08	16.54	15.62	16.43	16.09	16.87	17.34
	12H	14.84	15.55	15.32	16.03	16.50	15.60	16.32	16.08	16.80	17.27
8H	4H	14.74	15.54	15.20	15.98	16.45	15.71	16.51	16.17	16.95	17.42
	6H	15.00	15.66	15.50	16.15	16.63	15.74	16.40	16.24	16.89	17.37
	8H	15.04	15.63	15.55	16.14	16.63	15.72	16.30	16.23	16.81	17.30
	12H	15.06	15.58	15.57	16.07	16.64	15.70	16.22	16.21	16.71	17.28
12H	4H	14.72	15.44	15.20	15.91	16.38	15.69	16.41	16.18	16.89	17.36
	6H	14.97	15.56	15.48	16.07	16.56	15.71	16.31	16.23	16.81	17.30
	8H	15.04	15.56	15.55	16.05	16.61	15.71	16.23	16.22	16.72	17.29