

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: P1498134

Luminaire Tested: MAE-G-2-120-1LO-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498134
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-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

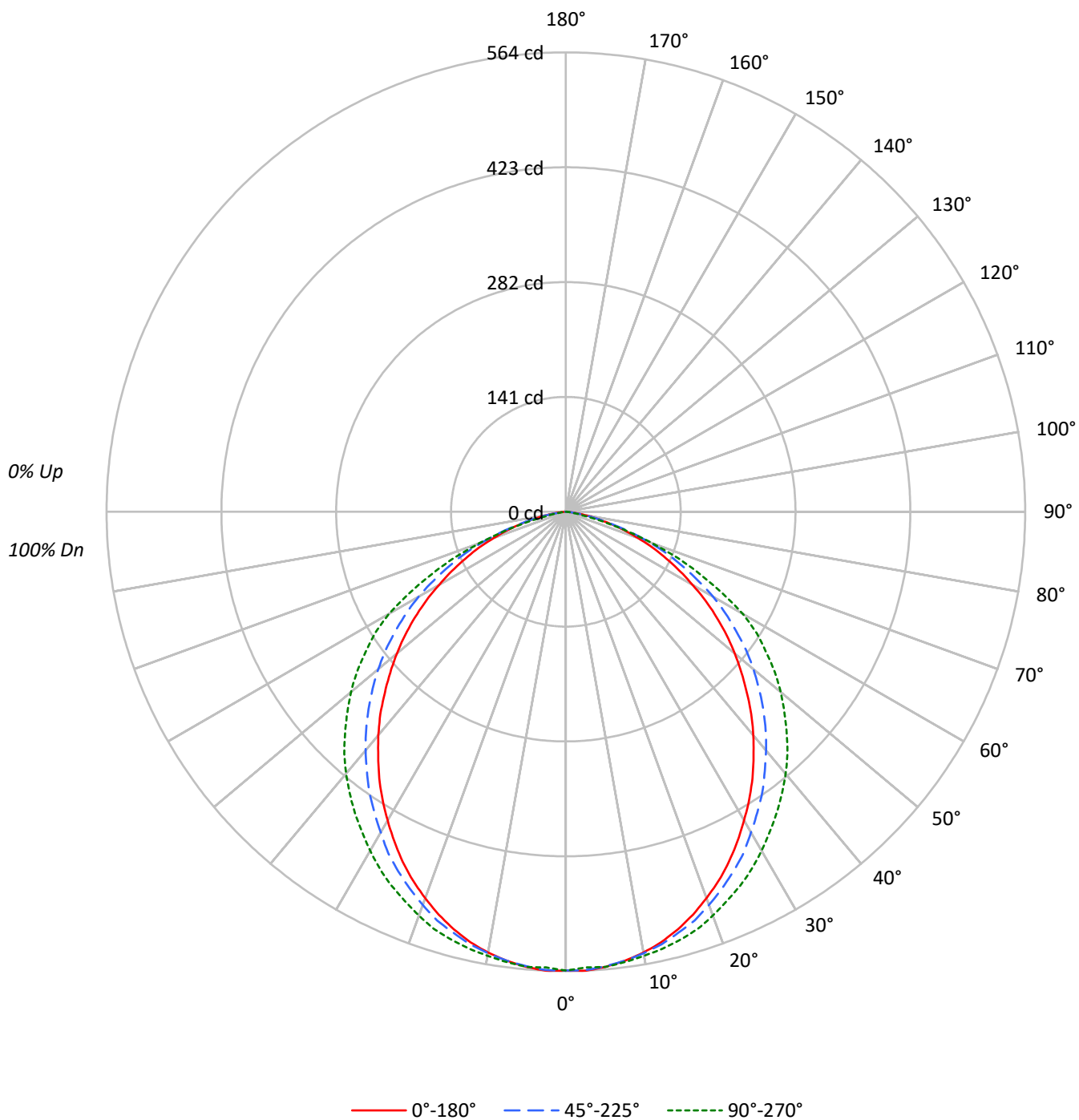
Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1516	1516	1516
5°	1515	1513	1515
10°	1502	1504	1512
15°	1479	1490	1515
20°	1446	1471	1511
25°	1408	1446	1504
30°	1360	1413	1493
35°	1312	1382	1483
40°	1258	1344	1475
45°	1196	1305	1459
50°	1133	1259	1442
55°	1061	1198	1407
60°	968	1125	1352
65°	867	1006	1161
70°	740	848	886
75°	573	616	497
80°	377	327	175
85°	201	151	99

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1459 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	3.8
10°-20°	151.2	10.7
20°-30°	224.8	15.8
30°-40°	264.3	18.6
40°-50°	266.7	18.8
50°-60°	231.6	16.3
60°-70°	157.6	11.1
70°-80°	61.4	4.3
80°-90°	7.4	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°	429.1	30.3
0°-40°	693.4	48.9
0°-60°	1191.6	84.0
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	561	560	560	560	561	53
15°	531	532	535	540	544	149
25°	474	476	487	499	506	218
35°	400	404	421	440	451	249
45°	314	322	343	370	383	243
55°	226	233	255	284	300	202
65°	136	143	158	175	182	135
75°	55	58	59	54	48	60
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°	563.2	563.2	563.2	563.2	563.2
2.5°	564.1	564.1	563.2	560.8	560.0
5°	560.8	560.0	560.0	560.0	560.8
7.5°	555.9	555.9	555.9	556.8	557.6
10°	549.5	549.5	550.3	551.9	553.5
12.5°	541.4	542.2	543.8	547.0	549.5
15°	530.8	531.6	534.9	540.5	543.8
17.5°	518.7	521.1	526.0	532.4	537.3
20°	504.9	507.3	513.8	521.9	527.6
22.5°	490.3	492.7	500.8	510.6	517.0
25°	474.1	476.5	487.1	499.2	506.5
27.5°	456.3	459.5	472.5	485.4	494.4
30°	437.6	441.7	454.6	470.9	480.6
32.5°	419.0	423.8	437.6	456.3	466.0
35°	399.5	404.4	420.6	440.1	451.4
37.5°	378.5	384.1	401.2	424.7	436.0
40°	358.2	363.9	382.5	407.6	419.8
42.5°	337.1	343.6	363.1	389.0	402.8
45°	314.4	322.5	342.8	369.6	383.3
47.5°	292.6	299.9	321.7	349.3	363.9
50°	270.7	278.8	300.7	329.0	344.4
52.5°	248.8	256.1	278.8	307.1	323.4
55°	226.1	233.4	255.3	284.5	299.9
57.5°	203.4	212.3	232.6	261.0	278.0
60°	179.9	188.0	209.1	237.5	251.2
62.5°	158.0	165.3	183.2	209.9	216.4
65°	136.2	142.6	158.0	175.1	182.3
67.5°	115.9	120.8	134.5	145.9	149.1
70°	94.0	98.9	107.8	114.3	112.6
72.5°	74.6	77.8	83.5	82.7	78.6
75°	55.1	58.4	59.2	53.5	47.8
77.5°	38.9	40.5	38.1	30.0	24.3
80°	24.3	25.1	21.1	13.0	11.3
82.5°	13.8	13.8	9.7	8.1	6.5
85°	6.5	6.5	4.9	4.1	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	12.05	13.63	12.41	13.94	14.26	13.63	15.21	13.99	15.52	15.84
	3H	13.38	14.80	13.76	15.13	15.49	14.90	16.32	15.28	16.64	17.00
	4H	13.75	15.08	14.15	15.43	15.81	15.09	16.42	15.49	16.77	17.15
	6H	13.92	15.14	14.33	15.51	15.90	15.09	16.32	15.50	16.68	17.08
	8H	13.93	15.10	14.36	15.49	15.89	15.06	16.23	15.49	16.62	17.02
	12H	13.92	15.04	14.35	15.43	15.85	15.04	16.16	15.47	16.54	16.97
4H	2H	12.71	14.04	13.11	14.39	14.77	14.01	15.34	14.41	15.68	16.06
	3H	14.21	15.31	14.62	15.71	16.11	15.44	16.55	15.85	16.94	17.35
	4H	14.65	15.64	15.09	16.06	16.50	15.70	16.69	16.13	17.10	17.54
	6H	14.88	15.74	15.34	16.18	16.64	15.72	16.58	16.18	17.02	17.48
	8H	14.90	15.70	15.37	16.15	16.61	15.70	16.50	16.16	16.94	17.41
	12H	14.91	15.62	15.39	16.10	16.57	15.68	16.39	16.16	16.87	17.34
8H	4H	14.81	15.61	15.27	16.06	16.52	15.78	16.58	16.24	17.03	17.49
	6H	15.07	15.73	15.57	16.22	16.70	15.81	16.47	16.31	16.96	17.44
	8H	15.11	15.70	15.63	16.21	16.70	15.79	16.38	16.30	16.89	17.37
	12H	15.13	15.65	15.64	16.14	16.71	15.77	16.29	16.28	16.78	17.35
12H	4H	14.79	15.51	15.28	15.99	16.46	15.77	16.48	16.25	16.96	17.43
	6H	15.04	15.63	15.56	16.14	16.63	15.79	16.38	16.30	16.89	17.37
	8H	15.11	15.63	15.62	16.12	16.69	15.79	16.30	16.29	16.80	17.36