

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: P1498428

Luminaire Tested: MAE-G-2-120-2LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

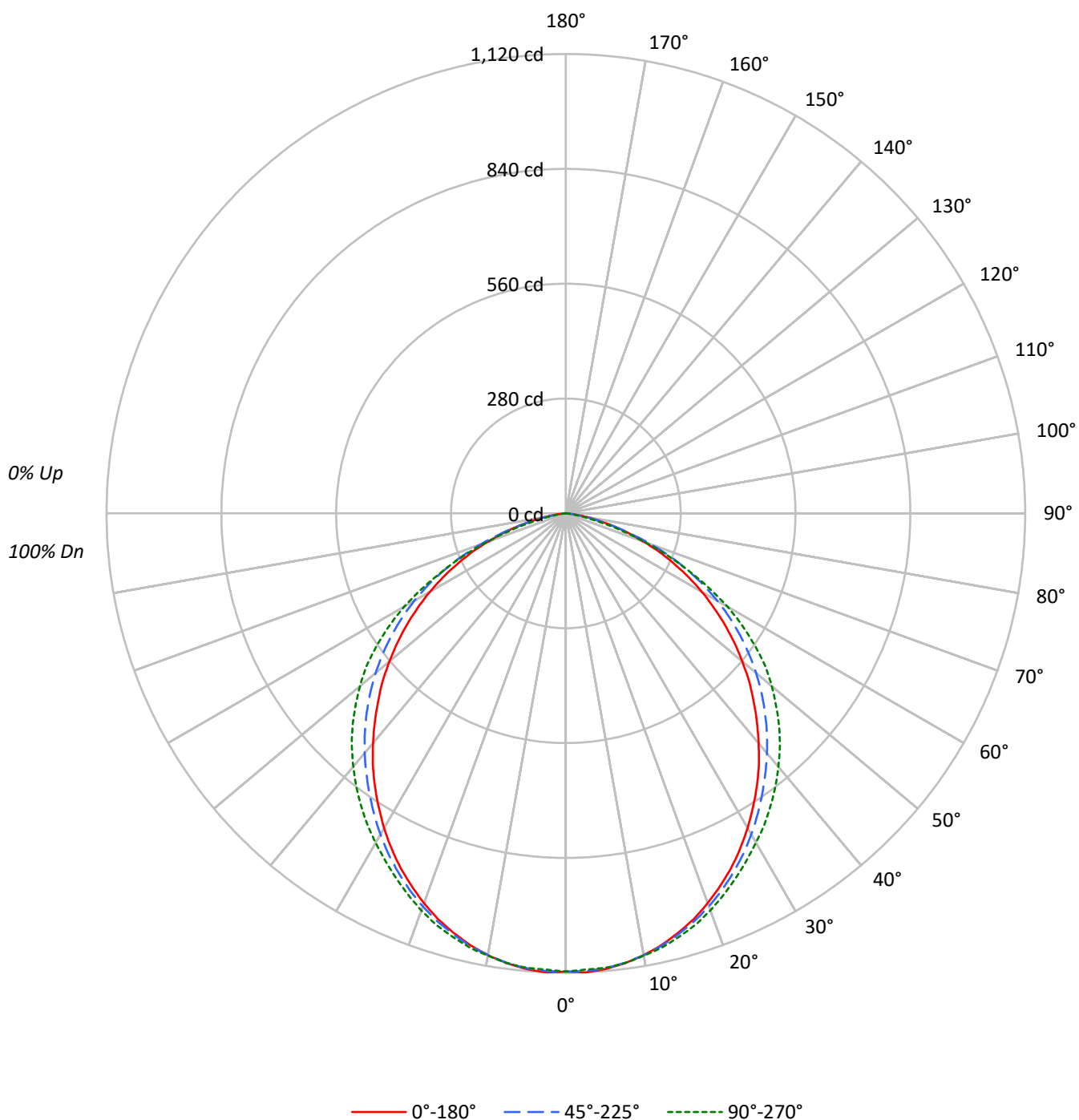
Lumens per Lamp: N/A
Luminaire Lumens: 2820.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	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		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3006	3006	3006
5°	3012	3007	3004
10°	2989	2989	2993
15°	2949	2959	2977
20°	2896	2920	2950
25°	2831	2869	2912
30°	2753	2810	2881
35°	2667	2742	2859
40°	2568	2680	2832
45°	2463	2613	2801
50°	2349	2534	2744
55°	2219	2433	2641
60°	2062	2297	2452
65°	1860	2087	2099
70°	1588	1737	1623
75°	1247	1258	1014
80°	810	648	389
85°	377	247	201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2801 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	3.7
10°-20°	299.3	10.6
20°-30°	444.6	15.8
30°-40°	523.6	18.6
40°-50°	530.5	18.8
50°-60°	461.7	16.4
60°-70°	314.6	11.2
70°-80°	125.8	4.5
80°-90°	14.4	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°	849.3	30.1
0°-40°	1373.0	48.7
0°-60°	2365.2	83.9
0°-90°	2820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1115	1108	1113	1112	1112	106
15°	1058	1054	1062	1066	1069	298
25°	954	954	966	974	981	439
35°	812	816	835	857	870	507
45°	647	655	687	719	736	499
55°	473	483	519	551	563	423
65°	292	306	328	328	330	289
75°	120	127	121	104	98	129
85°	12	11	8	7	6	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.1	1117.1	1117.1	1117.1	1117.1
2.5°	1120.2	1113.0	1117.1	1116.4	1113.4
5°	1114.9	1108.4	1113.0	1111.5	1111.9
7.5°	1106.2	1100.1	1105.1	1104.6	1105.8
10°	1093.7	1087.6	1093.7	1094.0	1095.2
12.5°	1078.1	1072.8	1080.0	1081.5	1084.2
15°	1058.4	1053.8	1062.1	1066.0	1068.6
17.5°	1037.2	1034.1	1042.4	1047.4	1051.6
20°	1011.3	1009.8	1019.7	1024.6	1030.3
22.5°	983.2	982.5	994.3	1000.3	1006.0
25°	953.6	954.1	966.2	974.2	980.6
27.5°	921.0	921.8	936.6	946.1	954.1
30°	886.1	888.1	904.3	917.3	927.1
32.5°	849.3	852.8	870.2	888.1	900.6
35°	811.8	815.6	834.6	856.6	870.2
37.5°	773.1	777.3	799.3	825.1	839.5
40°	731.0	737.4	762.9	791.3	806.1
42.5°	689.6	696.8	725.3	756.4	772.4
45°	647.2	655.2	686.6	718.9	735.9
47.5°	606.2	613.0	646.8	680.6	695.7
50°	561.1	570.1	605.4	639.2	655.5
52.5°	517.8	526.5	562.6	597.1	613.8
55°	473.0	483.3	518.6	551.2	562.9
57.5°	427.9	439.7	473.8	500.7	510.9
60°	383.2	394.9	426.8	448.0	455.6
62.5°	338.0	350.1	378.2	391.1	392.6
65°	292.1	305.8	327.7	328.2	329.7
67.5°	248.5	259.8	275.8	271.2	269.0
70°	201.8	214.3	220.8	211.7	206.3
72.5°	160.5	169.5	168.4	155.1	148.7
75°	119.9	127.1	121.0	104.0	97.5
77.5°	83.1	89.1	77.0	61.0	54.7
80°	52.3	55.0	41.8	29.6	25.1
82.5°	28.1	27.7	17.9	14.8	13.7
85°	12.2	11.0	8.0	7.2	6.5
87.5°	4.2	3.8	3.0	2.7	2.3
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	14.74	16.32	15.11	16.64	16.95	15.70	17.28	16.07	17.60	17.91
	3H	16.16	17.58	16.54	17.91	18.27	16.89	18.31	17.27	18.64	19.00
	4H	16.55	17.89	16.95	18.24	18.61	17.11	18.44	17.50	18.79	19.16
	6H	16.73	17.96	17.14	18.32	18.72	17.12	18.35	17.54	18.72	19.11
	8H	16.74	17.91	17.17	18.30	18.70	17.10	18.27	17.53	18.66	19.06
	12H	16.73	17.85	17.16	18.24	18.66	17.08	18.20	17.50	18.58	19.01
4H	2H	15.40	16.73	15.80	17.08	17.46	16.17	17.51	16.57	17.86	18.23
	3H	16.98	18.08	17.39	18.48	18.88	17.52	18.63	17.93	19.03	19.43
	4H	17.45	18.45	17.89	18.86	19.30	17.79	18.78	18.22	19.20	19.64
	6H	17.69	18.56	18.15	19.00	19.46	17.84	18.70	18.30	19.15	19.61
	8H	17.72	18.52	18.18	18.96	19.43	17.82	18.62	18.28	19.07	19.53
	12H	17.72	18.43	18.20	18.91	19.38	17.80	18.52	18.28	18.99	19.46
8H	4H	17.59	18.39	18.05	18.84	19.30	17.91	18.71	18.37	19.15	19.62
	6H	17.87	18.53	18.36	19.02	19.49	17.97	18.63	18.46	19.12	19.59
	8H	17.90	18.50	18.42	19.00	19.49	17.94	18.53	18.46	19.04	19.53
	12H	17.92	18.44	18.43	18.93	19.49	17.93	18.45	18.44	18.94	19.50
12H	4H	17.57	18.29	18.05	18.77	19.24	17.90	18.61	18.38	19.09	19.56
	6H	17.84	18.43	18.35	18.94	19.43	17.94	18.54	18.46	19.04	19.53
	8H	17.90	18.42	18.41	18.91	19.48	17.94	18.46	18.45	18.96	19.52