

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: P1498142

Luminaire Tested: MAE-G-2-120-1LO-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498142
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-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

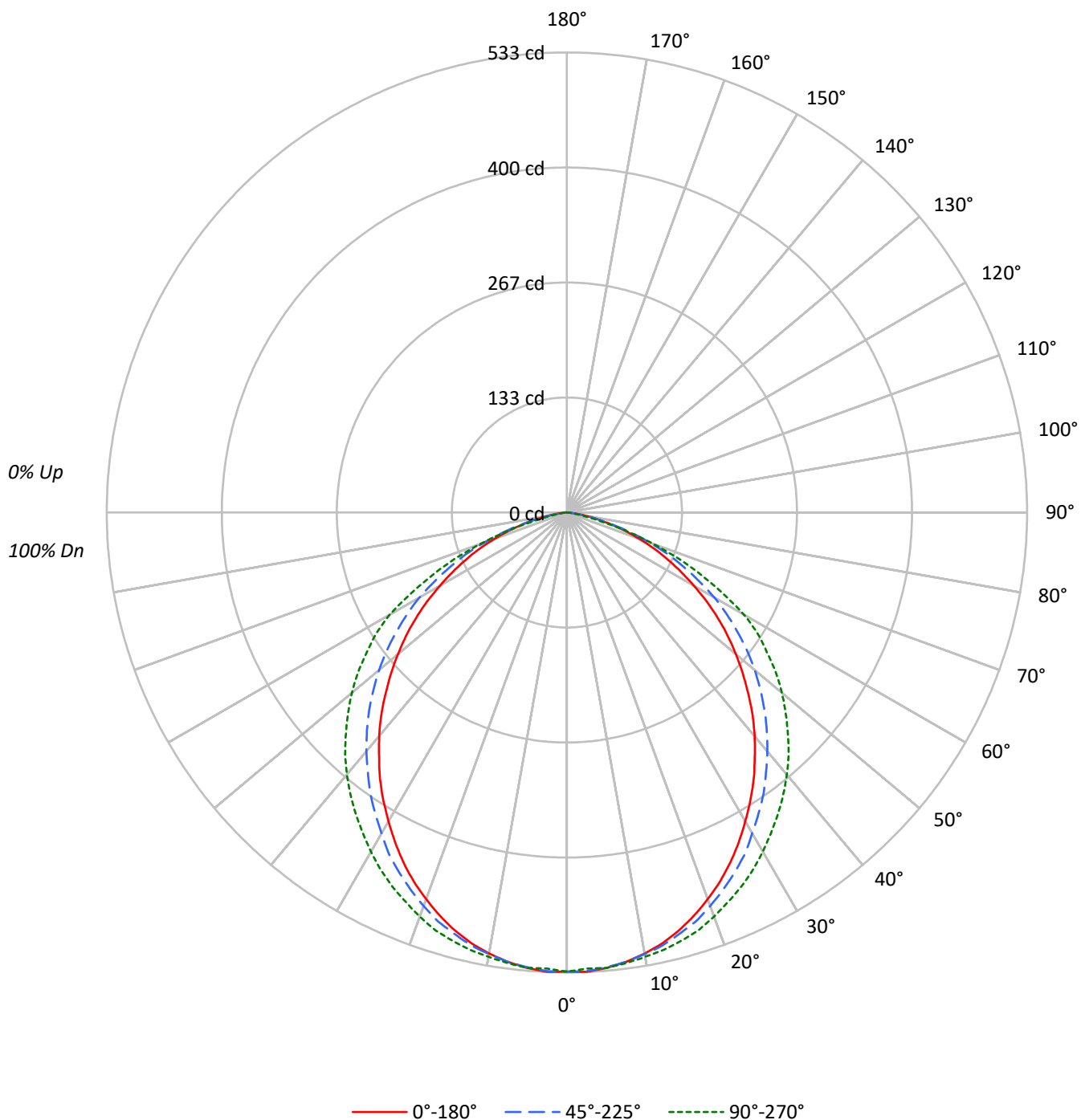
Lumens per Lamp: N/A
Luminaire Lumens: 1339.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1431	1431	1431
5°	1431	1428	1431
10°	1418	1420	1428
15°	1397	1407	1431
20°	1365	1389	1427
25°	1329	1366	1420
30°	1284	1334	1410
35°	1239	1305	1400
40°	1188	1269	1392
45°	1130	1232	1378
50°	1070	1189	1361
55°	1002	1131	1328
60°	914	1062	1277
65°	819	950	1096
70°	699	801	837
75°	541	581	470
80°	356	308	166
85°	188	142	96

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	3.8
10°-20°	142.7	10.7
20°-30°	212.2	15.9
30°-40°	249.5	18.6
40°-50°	251.8	18.8
50°-60°	218.7	16.3
60°-70°	148.8	11.1
70°-80°	58.0	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°	405.2	30.3
0°-40°	654.7	48.9
0°-60°	1125.2	84.0
0°-90°	1339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	532	532	532	532	532	
5°	530	529	529	529	530	50
15°	501	502	505	510	514	141
25°	448	450	460	471	478	206
35°	377	382	397	416	426	236
45°	297	305	324	349	362	229
55°	214	220	241	269	283	191
65°	129	135	149	165	172	128
75°	52	55	56	50	45	57
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°	531.9	531.9	531.9	531.9	531.9
2.5°	532.6	532.6	531.9	529.6	528.8
5°	529.6	528.8	528.8	528.8	529.6
7.5°	525.0	525.0	525.0	525.7	526.5
10°	518.9	518.9	519.6	521.1	522.7
12.5°	511.2	512.0	513.5	516.6	518.9
15°	501.3	502.0	505.1	510.4	513.5
17.5°	489.8	492.1	496.7	502.8	507.4
20°	476.8	479.1	485.2	492.8	498.2
22.5°	463.0	465.3	472.9	482.1	488.2
25°	447.7	450.0	459.9	471.4	478.3
27.5°	430.8	433.9	446.2	458.4	466.8
30°	413.2	417.1	429.3	444.6	453.8
32.5°	395.6	400.2	413.2	430.8	440.0
35°	377.3	381.9	397.2	415.5	426.3
37.5°	357.4	362.7	378.8	401.0	411.7
40°	338.2	343.6	361.2	384.9	396.4
42.5°	318.4	324.5	342.8	367.3	380.3
45°	296.9	304.6	323.7	349.0	362.0
47.5°	276.3	283.1	303.8	329.8	343.6
50°	255.6	263.3	283.9	310.7	325.2
52.5°	234.9	241.8	263.3	290.0	305.3
55°	213.5	220.4	241.1	268.6	283.1
57.5°	192.1	200.5	219.6	246.4	262.5
60°	169.9	177.5	197.4	224.2	237.2
62.5°	149.2	156.1	173.0	198.2	204.3
65°	128.6	134.7	149.2	165.3	172.2
67.5°	109.4	114.0	127.0	137.7	140.8
70°	88.8	93.4	101.8	107.9	106.4
72.5°	70.4	73.5	78.8	78.1	74.2
75°	52.0	55.1	55.9	50.5	45.2
77.5°	36.7	38.3	36.0	28.3	23.0
80°	23.0	23.7	19.9	12.2	10.7
82.5°	13.0	13.0	9.2	7.7	6.1
85°	6.1	6.1	4.6	3.8	3.1
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	11.85	13.43	12.21	13.74	14.06	13.43	15.01	13.79	15.32	15.64
	3H	13.19	14.60	13.56	14.93	15.29	14.70	16.11	15.07	16.44	16.80
	4H	13.55	14.88	13.95	15.23	15.61	14.89	16.22	15.29	16.57	16.95
	6H	13.72	14.95	14.13	15.31	15.70	14.89	16.12	15.30	16.48	16.88
	8H	13.73	14.90	14.16	15.29	15.69	14.86	16.03	15.29	16.42	16.82
	12H	13.73	14.84	14.15	15.23	15.66	14.84	15.96	15.27	16.34	16.77
4H	2H	12.51	13.84	12.91	14.19	14.57	13.81	15.14	14.20	15.48	15.86
	3H	14.01	15.11	14.42	15.51	15.91	15.24	16.35	15.65	16.74	17.15
	4H	14.45	15.44	14.89	15.86	16.30	15.50	16.49	15.93	16.90	17.34
	6H	14.68	15.54	15.14	15.98	16.44	15.52	16.38	15.98	16.82	17.28
	8H	14.70	15.51	15.17	15.95	16.42	15.50	16.30	15.96	16.74	17.21
	12H	14.71	15.42	15.19	15.90	16.37	15.48	16.19	15.96	16.67	17.14
8H	4H	14.61	15.41	15.07	15.86	16.32	15.58	16.38	16.04	16.83	17.29
	6H	14.87	15.53	15.37	16.02	16.50	15.61	16.27	16.11	16.76	17.24
	8H	14.91	15.50	15.43	16.01	16.50	15.59	16.18	16.10	16.69	17.17
	12H	14.93	15.45	15.44	15.94	16.51	15.57	16.09	16.08	16.58	17.15
12H	4H	14.59	15.31	15.08	15.79	16.26	15.57	16.28	16.05	16.76	17.23
	6H	14.84	15.43	15.36	15.94	16.43	15.59	16.18	16.10	16.69	17.17
	8H	14.91	15.43	15.42	15.92	16.49	15.59	16.10	16.09	16.60	17.16