

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: P1498985

Luminaire Tested: MAE-G-4-120-1LO-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498985
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-4-120-1LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

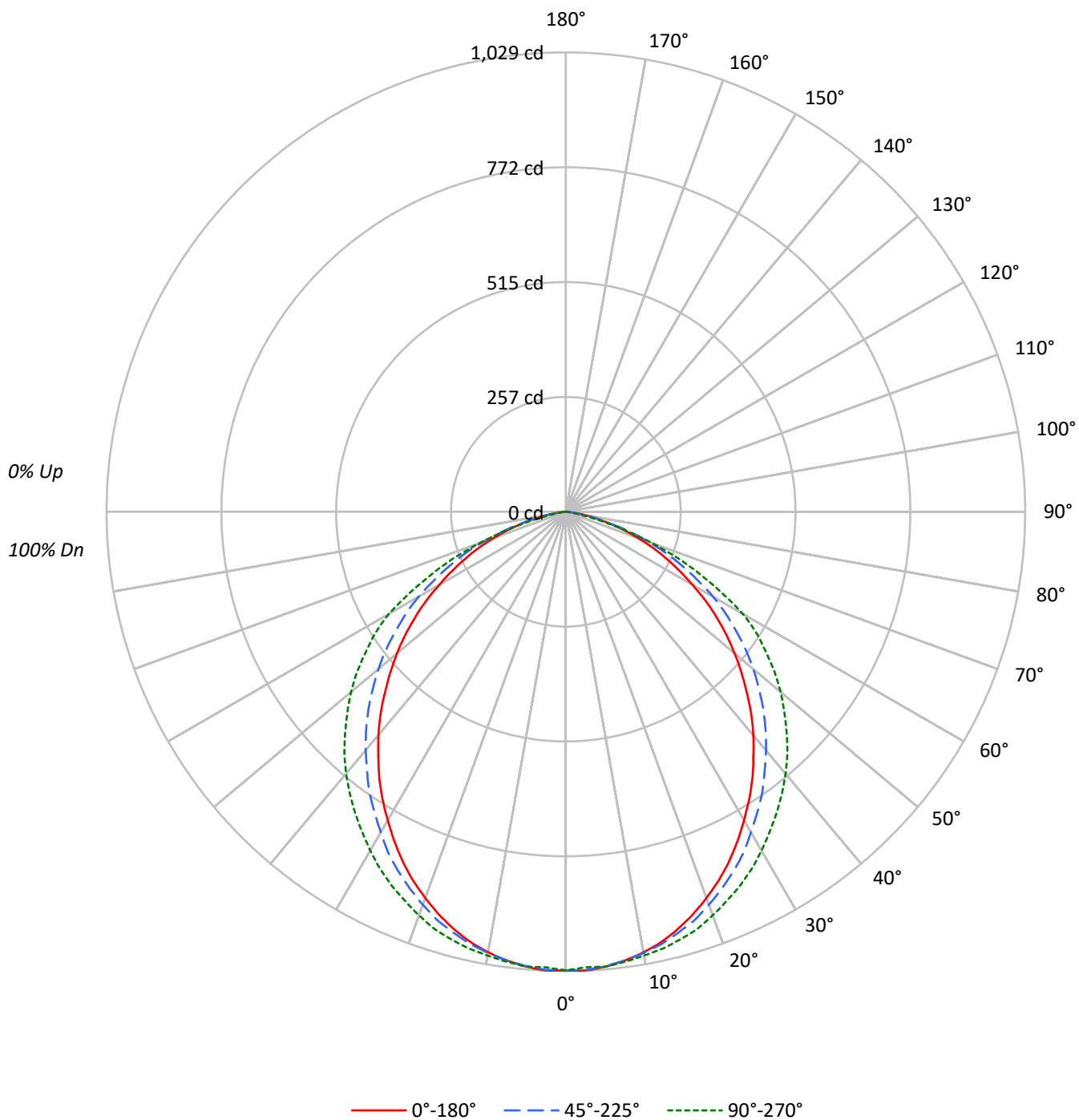
Lumens per Lamp: N/A
Luminaire Lumens: 2586.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	1382	1382	1382
5°	1381	1379	1381
10°	1369	1371	1379
15°	1349	1359	1381
20°	1318	1342	1378
25°	1284	1319	1371
30°	1240	1288	1362
35°	1197	1260	1352
40°	1147	1225	1345
45°	1091	1190	1330
50°	1033	1148	1315
55°	967	1092	1283
60°	883	1026	1233
65°	791	918	1059
70°	674	773	808
75°	522	561	453
80°	343	298	160
85°	182	137	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1330 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	3.8
10°-20°	275.7	10.7
20°-30°	409.9	15.9
30°-40°	481.9	18.6
40°-50°	486.4	18.8
50°-60°	422.3	16.3
60°-70°	287.4	11.1
70°-80°	112.0	4.3
80°-90°	13.4	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°	782.5	30.3
0°-40°	1264.5	48.9
0°-60°	2173.2	84.0
0°-90°	2586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1023	1021	1021	1021	1023	97
15°	968	970	976	986	992	273
25°	865	869	888	910	924	398
35°	729	738	767	802	823	455
45°	573	588	625	674	699	443
55°	412	426	466	519	547	368
65°	248	260	288	319	332	247
75°	100	106	108	98	87	109
85°	12	12	9	7	6	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.2	1027.2	1027.2	1027.2	1027.2
2.5°	1028.7	1028.7	1027.2	1022.7	1021.3
5°	1022.7	1021.3	1021.3	1021.3	1022.7
7.5°	1013.9	1013.9	1013.9	1015.4	1016.8
10°	1002.1	1002.1	1003.5	1006.5	1009.4
12.5°	987.3	988.8	991.7	997.6	1002.1
15°	968.1	969.5	975.5	985.8	991.7
17.5°	945.9	950.3	959.2	971.0	979.9
20°	920.8	925.2	937.0	951.8	962.1
22.5°	894.2	898.6	913.4	931.1	942.9
25°	864.6	869.0	888.3	910.4	923.7
27.5°	832.1	838.0	861.6	885.3	901.6
30°	798.1	805.5	829.1	858.7	876.4
32.5°	764.1	773.0	798.1	832.1	849.8
35°	728.6	737.5	767.1	802.5	823.2
37.5°	690.2	700.6	731.6	774.4	795.1
40°	653.3	663.6	697.6	743.4	765.6
42.5°	614.8	626.7	662.1	709.4	734.5
45°	573.4	588.2	625.2	673.9	699.1
47.5°	533.5	546.8	586.7	637.0	663.6
50°	493.6	508.4	548.3	600.0	628.1
52.5°	453.7	467.0	508.4	560.1	589.7
55°	412.3	425.7	465.6	518.8	546.8
57.5°	371.0	387.2	424.2	475.9	506.9
60°	328.1	342.9	381.3	433.0	458.2
62.5°	288.2	301.5	334.0	382.8	394.6
65°	248.3	260.1	288.2	319.2	332.5
67.5°	211.3	220.2	245.3	266.0	271.9
70°	171.4	180.3	196.6	208.4	205.4
72.5°	136.0	141.9	152.2	150.8	143.4
75°	100.5	106.4	107.9	97.5	87.2
77.5°	70.9	73.9	69.5	54.7	44.3
80°	44.3	45.8	38.4	23.6	20.7
82.5°	25.1	25.1	17.7	14.8	11.8
85°	11.8	11.8	8.9	7.4	5.9
87.5°	4.4	4.4	3.0	3.0	3.0
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	11.73	13.31	12.09	13.62	13.94	13.31	14.89	13.67	15.20	15.52
	3H	13.06	14.48	13.44	14.81	15.17	14.58	15.99	14.95	16.32	16.68
	4H	13.43	14.76	13.83	15.11	15.49	14.77	16.10	15.17	16.45	16.83
	6H	13.60	14.82	14.01	15.19	15.58	14.77	16.00	15.18	16.36	16.75
	8H	13.61	14.78	14.04	15.17	15.57	14.74	15.91	15.17	16.30	16.70
	12H	13.60	14.72	14.03	15.10	15.53	14.72	15.84	15.15	16.22	16.65
4H	2H	12.39	13.72	12.79	14.07	14.45	13.68	15.01	14.08	15.36	15.74
	3H	13.89	14.99	14.30	15.39	15.79	15.12	16.22	15.53	16.62	17.02
	4H	14.33	15.32	14.76	15.74	16.17	15.38	16.36	15.81	16.78	17.22
	6H	14.56	15.42	15.01	15.86	16.32	15.40	16.26	15.86	16.70	17.16
	8H	14.58	15.38	15.04	15.83	16.29	15.38	16.18	15.84	16.62	17.09
	12H	14.59	15.30	15.07	15.78	16.25	15.35	16.07	15.84	16.55	17.02
8H	4H	14.49	15.29	14.95	15.73	16.20	15.46	16.26	15.92	16.70	17.17
	6H	14.75	15.41	15.25	15.90	16.38	15.49	16.15	15.99	16.64	17.12
	8H	14.79	15.38	15.30	15.89	16.38	15.47	16.06	15.98	16.56	17.05
	12H	14.81	15.33	15.32	15.82	16.39	15.45	15.97	15.96	16.46	17.03
12H	4H	14.47	15.19	14.95	15.66	16.14	15.45	16.16	15.93	16.64	17.11
	6H	14.72	15.31	15.23	15.82	16.31	15.47	16.06	15.98	16.57	17.05
	8H	14.79	15.31	15.30	15.80	16.36	15.46	15.98	15.97	16.47	17.04