

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: P1499006

Luminaire Tested: MAE-G-4-120-1LO-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499006
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-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

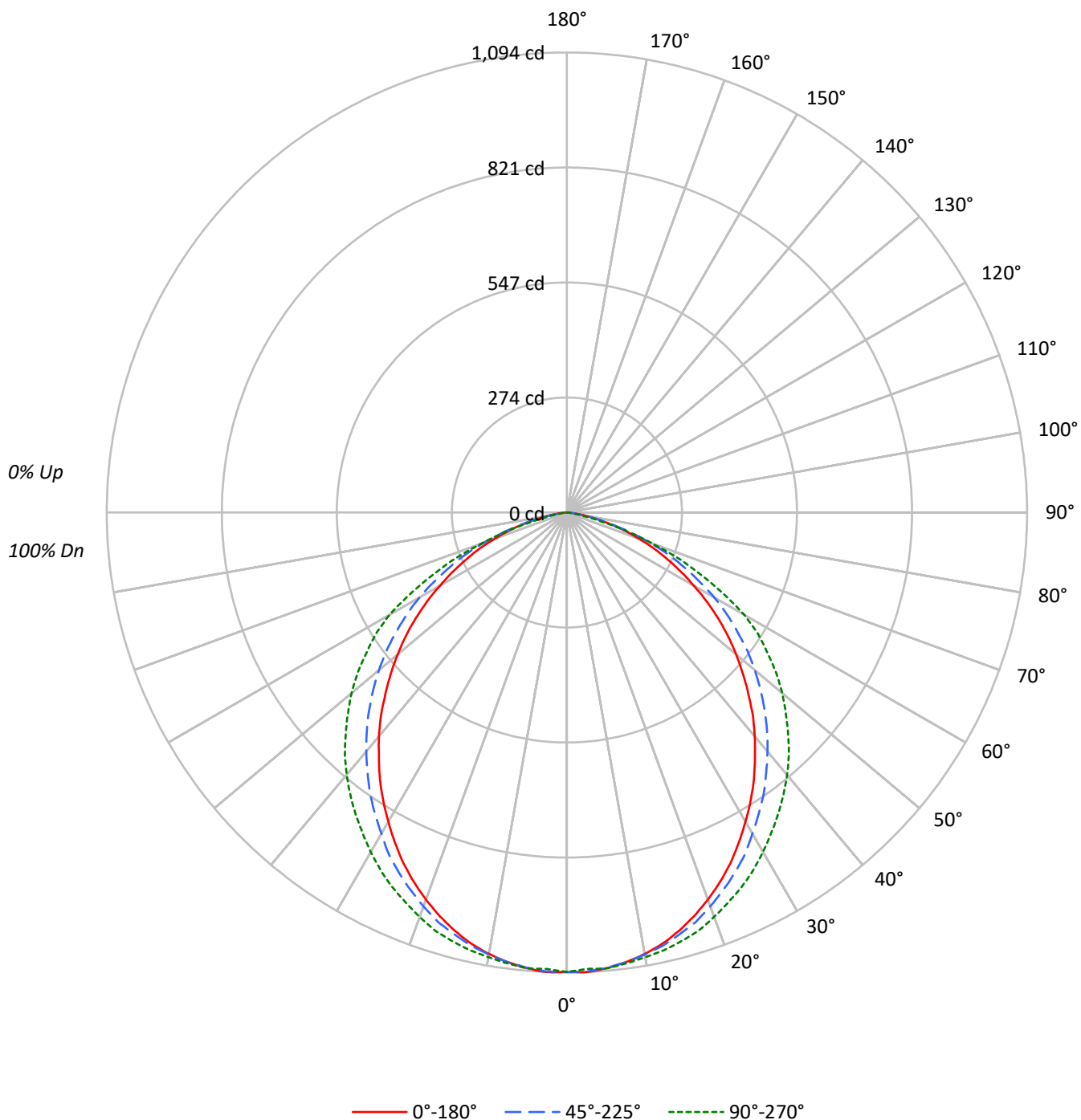
Lumens per Lamp: N/A
Luminaire Lumens: 2751.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1470	1470	1470
5°	1469	1467	1469
10°	1456	1459	1467
15°	1434	1445	1470
20°	1402	1427	1465
25°	1366	1403	1459
30°	1319	1370	1448
35°	1273	1340	1438
40°	1221	1303	1430
45°	1161	1266	1415
50°	1099	1221	1399
55°	1029	1162	1365
60°	939	1091	1312
65°	841	976	1126
70°	718	823	860
75°	556	597	482
80°	366	317	170
85°	195	145	97

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1415 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.8
10°-20°	293.3	10.7
20°-30°	436.0	15.9
30°-40°	512.7	18.6
40°-50°	517.4	18.8
50°-60°	449.3	16.3
60°-70°	305.8	11.1
70°-80°	119.1	4.3
80°-90°	14.3	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°	832.5	30.3
0°-40°	1345.1	48.9
0°-60°	2311.8	84.0
0°-90°	2751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1088	1086	1086	1086	1088	103
15°	1030	1031	1038	1049	1055	290
25°	920	924	945	968	983	423
35°	775	785	816	854	876	484
45°	610	626	665	717	744	471
55°	439	453	495	552	582	392
65°	264	277	307	340	354	262
75°	107	113	115	104	93	116
85°	13	13	9	8	6	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.7	1092.7	1092.7	1092.7	1092.7
2.5°	1094.3	1094.3	1092.7	1088.0	1086.4
5°	1088.0	1086.4	1086.4	1086.4	1088.0
7.5°	1078.6	1078.6	1078.6	1080.1	1081.7
10°	1066.0	1066.0	1067.6	1070.7	1073.9
12.5°	1050.3	1051.8	1055.0	1061.3	1066.0
15°	1029.8	1031.4	1037.7	1048.7	1055.0
17.5°	1006.2	1011.0	1020.4	1033.0	1042.4
20°	979.5	984.2	996.8	1012.5	1023.5
22.5°	951.2	955.9	971.7	990.5	1003.1
25°	919.8	924.5	944.9	968.5	982.7
27.5°	885.2	891.5	916.6	941.8	959.1
30°	849.0	856.9	882.0	913.5	932.3
32.5°	812.9	822.3	849.0	885.2	904.0
35°	775.1	784.6	816.0	853.7	875.7
37.5°	734.2	745.2	778.3	823.9	845.9
40°	694.9	705.9	742.1	790.8	814.4
42.5°	654.1	666.6	704.4	754.7	781.4
45°	610.0	625.8	665.1	716.9	743.7
47.5°	567.6	581.7	624.2	677.6	705.9
50°	525.1	540.9	583.3	638.3	668.2
52.5°	482.7	496.8	540.9	595.9	627.3
55°	438.7	452.8	495.3	551.9	581.7
57.5°	394.6	411.9	451.2	506.3	539.3
60°	349.0	364.8	405.6	460.7	487.4
62.5°	306.6	320.7	355.3	407.2	419.8
65°	264.1	276.7	306.6	339.6	353.8
67.5°	224.8	234.3	261.0	283.0	289.3
70°	182.4	191.8	209.1	221.7	218.5
72.5°	144.6	150.9	161.9	160.4	152.5
75°	106.9	113.2	114.8	103.8	92.8
77.5°	75.5	78.6	73.9	58.2	47.2
80°	47.2	48.7	40.9	25.2	22.0
82.5°	26.7	26.7	18.9	15.7	12.6
85°	12.6	12.6	9.4	7.9	6.3
87.5°	4.7	4.7	3.1	3.1	3.1
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	11.94	13.52	12.31	13.84	14.15	13.52	15.10	13.89	15.42	15.73
	3H	13.28	14.70	13.66	15.02	15.38	14.79	16.21	15.17	16.54	16.90
	4H	13.65	14.98	14.05	15.32	15.70	14.99	16.32	15.39	16.66	17.04
	6H	13.81	15.04	14.22	15.40	15.80	14.98	16.21	15.40	16.58	16.97
	8H	13.83	14.99	14.25	15.38	15.78	14.96	16.13	15.38	16.52	16.92
	12H	13.82	14.94	14.25	15.32	15.75	14.93	16.05	15.36	16.43	16.86
4H	2H	12.61	13.94	13.01	14.29	14.66	13.90	15.23	14.30	15.58	15.96
	3H	14.11	15.21	14.52	15.61	16.01	15.34	16.44	15.75	16.84	17.24
	4H	14.55	15.54	14.98	15.95	16.39	15.59	16.58	16.02	16.99	17.43
	6H	14.77	15.63	15.23	16.07	16.53	15.62	16.48	16.07	16.92	17.38
	8H	14.80	15.60	15.26	16.04	16.51	15.59	16.39	16.05	16.84	17.30
	12H	14.80	15.52	15.28	15.99	16.46	15.57	16.28	16.05	16.76	17.23
8H	4H	14.71	15.51	15.17	15.95	16.42	15.67	16.48	16.14	16.92	17.39
	6H	14.97	15.62	15.46	16.11	16.59	15.71	16.37	16.20	16.86	17.33
	8H	15.01	15.60	15.52	16.10	16.59	15.68	16.27	16.20	16.78	17.27
	12H	15.03	15.55	15.54	16.04	16.60	15.67	16.19	16.18	16.68	17.24
12H	4H	14.69	15.40	15.17	15.88	16.35	15.66	16.38	16.14	16.85	17.32
	6H	14.94	15.53	15.45	16.04	16.52	15.68	16.27	16.19	16.78	17.27
	8H	15.00	15.52	15.51	16.02	16.58	15.68	16.20	16.19	16.69	17.25