

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: P1498133

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498133
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-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

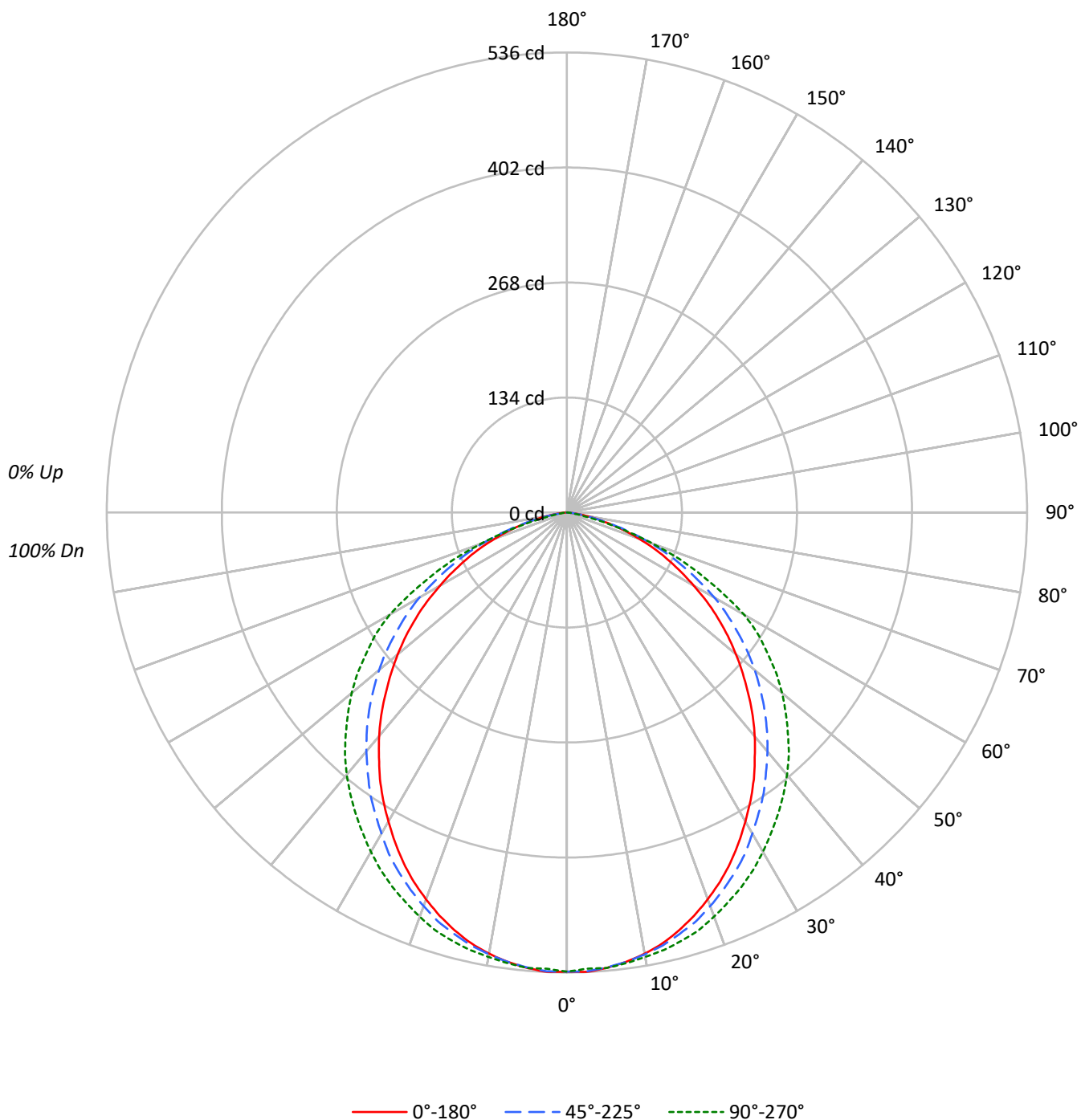
Lumens per Lamp: N/A
Luminaire Lumens: 1347.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1440	1440	1440
5°	1439	1437	1439
10°	1426	1428	1437
15°	1405	1416	1439
20°	1373	1398	1435
25°	1337	1374	1428
30°	1292	1342	1418
35°	1247	1312	1409
40°	1195	1277	1401
45°	1137	1239	1386
50°	1076	1196	1370
55°	1008	1138	1336
60°	920	1069	1285
65°	823	956	1103
70°	703	806	842
75°	544	584	472
80°	358	310	167
85°	191	142	96

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1386 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	3.8
10°-20°	143.6	10.7
20°-30°	213.5	15.9
30°-40°	251.0	18.6
40°-50°	253.3	18.8
50°-60°	220.0	16.3
60°-70°	149.7	11.1
70°-80°	58.3	4.3
80°-90°	7.0	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°	407.6	30.3
0°-40°	658.6	48.9
0°-60°	1132.0	84.0
0°-90°	1347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	535	535	535	535	535	
5°	533	532	532	532	533	51
15°	504	505	508	514	517	142
25°	450	453	463	474	481	207
35°	380	384	400	418	429	237
45°	299	306	326	351	364	231
55°	215	222	242	270	285	192
65°	129	136	150	166	173	128
75°	52	55	56	51	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°	535.0	535.0	535.0	535.0	535.0
2.5°	535.8	535.8	535.0	532.7	532.0
5°	532.7	532.0	532.0	532.0	532.7
7.5°	528.1	528.1	528.1	528.9	529.6
10°	522.0	522.0	522.7	524.3	525.8
12.5°	514.3	515.0	516.6	519.6	522.0
15°	504.2	505.0	508.1	513.5	516.6
17.5°	492.7	495.0	499.6	505.8	510.4
20°	479.6	481.9	488.1	495.8	501.2
22.5°	465.8	468.1	475.8	485.0	491.2
25°	450.4	452.7	462.7	474.2	481.1
27.5°	433.4	436.5	448.8	461.1	469.6
30°	415.7	419.6	431.9	447.3	456.5
32.5°	398.0	402.6	415.7	433.4	442.7
35°	379.5	384.1	399.5	418.0	428.8
37.5°	359.5	364.9	381.1	403.4	414.2
40°	340.3	345.7	363.4	387.2	398.8
42.5°	320.3	326.4	344.9	369.5	382.6
45°	298.7	306.4	325.6	351.0	364.1
47.5°	277.9	284.8	305.6	331.8	345.7
50°	257.1	264.8	285.6	312.6	327.2
52.5°	236.3	243.3	264.8	291.8	307.2
55°	214.8	221.7	242.5	270.2	284.8
57.5°	193.2	201.7	220.9	247.9	264.1
60°	170.9	178.6	198.6	225.6	238.7
62.5°	150.1	157.0	174.0	199.4	205.5
65°	129.3	135.5	150.1	166.3	173.2
67.5°	110.1	114.7	127.8	138.6	141.7
70°	89.3	93.9	102.4	108.5	107.0
72.5°	70.8	73.9	79.3	78.5	74.7
75°	52.3	55.4	56.2	50.8	45.4
77.5°	37.0	38.5	36.2	28.5	23.1
80°	23.1	23.9	20.0	12.3	10.8
82.5°	13.1	13.1	9.2	7.7	6.2
85°	6.2	6.2	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	11.87	13.45	12.24	13.76	14.08	13.45	15.03	13.82	15.34	15.66
	3H	13.21	14.62	13.58	14.95	15.31	14.72	16.14	15.10	16.46	16.82
	4H	13.57	14.90	13.97	15.25	15.63	14.91	16.24	15.31	16.59	16.97
	6H	13.74	14.97	14.15	15.33	15.72	14.91	16.14	15.32	16.51	16.90
	8H	13.75	14.92	14.18	15.31	15.71	14.89	16.06	15.31	16.45	16.85
	12H	13.75	14.87	14.18	15.25	15.68	14.86	15.98	15.29	16.36	16.79
4H	2H	12.53	13.86	12.93	14.21	14.59	13.83	15.16	14.23	15.51	15.88
	3H	14.03	15.13	14.44	15.53	15.93	15.27	16.37	15.68	16.77	17.17
	4H	14.47	15.46	14.91	15.88	16.32	15.52	16.51	15.95	16.92	17.36
	6H	14.70	15.56	15.16	16.00	16.46	15.55	16.40	16.00	16.85	17.30
	8H	14.72	15.53	15.19	15.97	16.44	15.52	16.32	15.98	16.76	17.23
	12H	14.73	15.44	15.21	15.92	16.39	15.50	16.21	15.98	16.69	17.16
8H	4H	14.63	15.43	15.09	15.88	16.34	15.60	16.40	16.06	16.85	17.31
	6H	14.89	15.55	15.39	16.04	16.52	15.64	16.29	16.13	16.78	17.26
	8H	14.93	15.52	15.45	16.03	16.52	15.61	16.20	16.12	16.71	17.20
	12H	14.96	15.47	15.46	15.97	16.53	15.59	16.11	16.10	16.60	17.17
12H	4H	14.61	15.33	15.10	15.81	16.28	15.59	16.30	16.07	16.78	17.25
	6H	14.86	15.45	15.38	15.96	16.45	15.61	16.20	16.12	16.71	17.20
	8H	14.93	15.45	15.44	15.94	16.51	15.61	16.13	16.12	16.62	17.18