

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: P1498121

Luminaire Tested: MAE-G-2-120-1LO-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498121
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-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

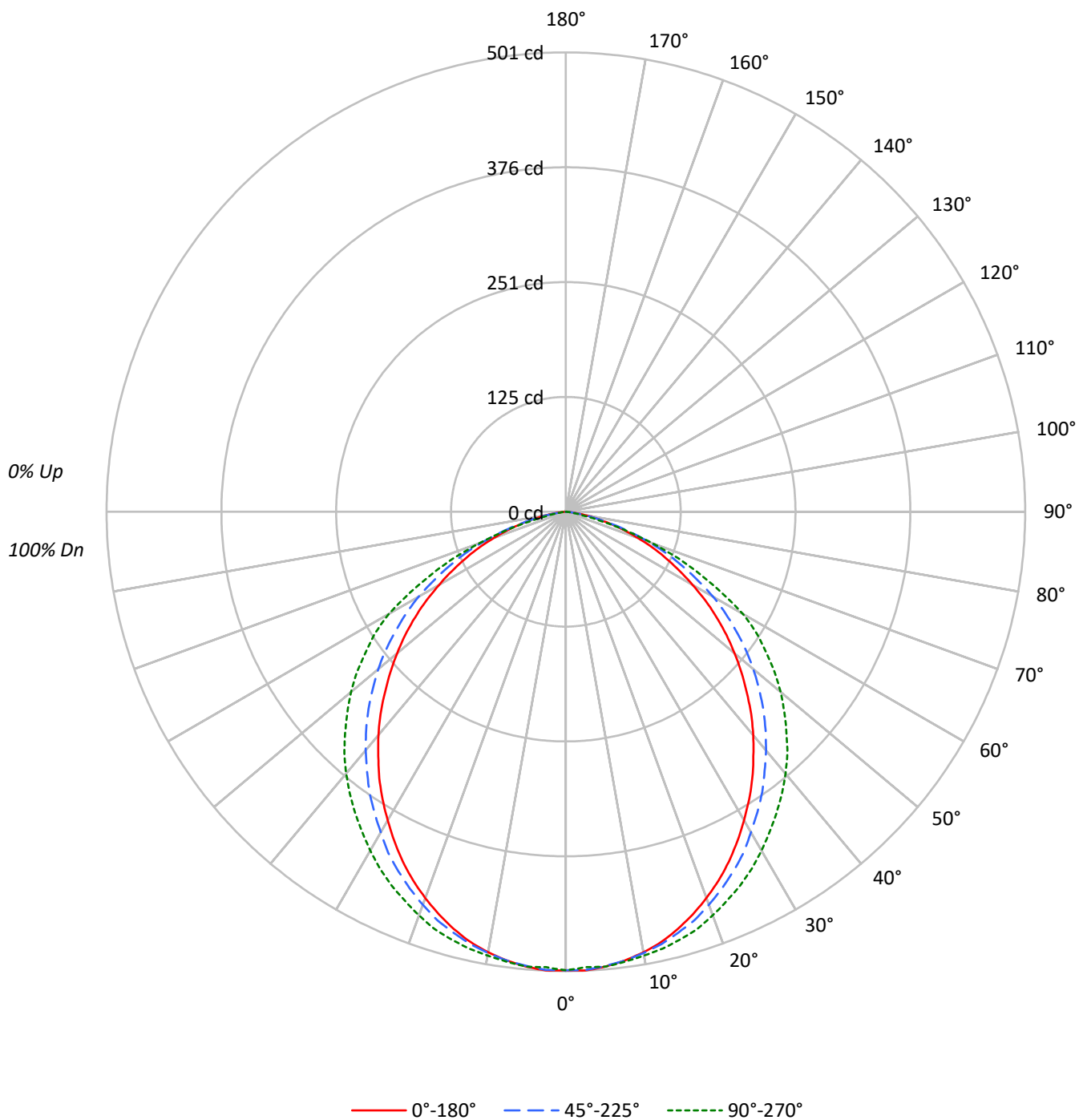
Lumens per Lamp: N/A
Luminaire Lumens: 1259.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1346	1346	1346
5°	1345	1343	1345
10°	1333	1335	1343
15°	1313	1323	1345
20°	1284	1306	1341
25°	1250	1284	1335
30°	1207	1254	1326
35°	1165	1227	1317
40°	1117	1193	1309
45°	1063	1158	1295
50°	1006	1118	1280
55°	942	1064	1249
60°	859	999	1201
65°	770	893	1031
70°	657	753	787
75°	508	546	442
80°	335	290	157
85°	179	133	90

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1295 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	3.8
10°-20°	134.2	10.7
20°-30°	199.6	15.9
30°-40°	234.6	18.6
40°-50°	236.8	18.8
50°-60°	205.6	16.3
60°-70°	139.9	11.1
70°-80°	54.5	4.3
80°-90°	6.5	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°	381.0	30.3
0°-40°	615.6	48.9
0°-60°	1058.0	84.0
0°-90°	1259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	498	497	497	497	498	47
15°	471	472	475	480	483	133
25°	421	423	432	443	450	194
35°	355	359	373	391	401	222
45°	279	286	304	328	340	216
55°	201	207	227	253	266	179
65°	121	127	140	155	162	120
75°	49	52	52	48	42	53
85°	6	6	4	4	3	8
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	500.1	500.1	500.1	500.1	500.1
2.5°	500.8	500.8	500.1	497.9	497.2
5°	497.9	497.2	497.2	497.2	497.9
7.5°	493.6	493.6	493.6	494.3	495.0
10°	487.9	487.9	488.6	490.0	491.4
12.5°	480.7	481.4	482.8	485.7	487.9
15°	471.3	472.0	474.9	479.9	482.8
17.5°	460.5	462.7	467.0	472.7	477.1
20°	448.3	450.4	456.2	463.4	468.4
22.5°	435.3	437.5	444.7	453.3	459.1
25°	420.9	423.1	432.4	443.2	449.7
27.5°	405.1	408.0	419.5	431.0	438.9
30°	388.6	392.2	403.7	418.1	426.7
32.5°	372.0	376.3	388.6	405.1	413.7
35°	354.7	359.1	373.4	390.7	400.8
37.5°	336.0	341.1	356.2	377.0	387.1
40°	318.0	323.1	339.6	361.9	372.7
42.5°	299.3	305.1	322.4	345.4	357.6
45°	279.2	286.4	304.4	328.1	340.3
47.5°	259.8	266.2	285.7	310.1	323.1
50°	240.3	247.5	267.0	292.1	305.8
52.5°	220.9	227.4	247.5	272.7	287.1
55°	200.8	207.2	226.7	252.6	266.2
57.5°	180.6	188.5	206.5	231.7	246.8
60°	159.7	166.9	185.6	210.8	223.1
62.5°	140.3	146.8	162.6	186.4	192.1
65°	120.9	126.6	140.3	155.4	161.9
67.5°	102.9	107.2	119.4	129.5	132.4
70°	83.5	87.8	95.7	101.5	100.0
72.5°	66.2	69.1	74.1	73.4	69.8
75°	48.9	51.8	52.5	47.5	42.5
77.5°	34.5	36.0	33.8	26.6	21.6
80°	21.6	22.3	18.7	11.5	10.1
82.5°	12.2	12.2	8.6	7.2	5.8
85°	5.8	5.8	4.3	3.6	2.9
87.5°	2.2	2.2	1.4	1.4	1.4
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	11.63	13.21	12.00	13.53	13.84	13.22	14.79	13.58	15.11	15.42
	3H	12.97	14.39	13.35	14.72	15.08	14.48	15.90	14.86	16.23	16.59
	4H	13.34	14.67	13.74	15.02	15.39	14.68	16.01	15.08	16.36	16.73
	6H	13.50	14.73	13.91	15.10	15.49	14.68	15.90	15.09	16.27	16.66
	8H	13.52	14.69	13.94	15.08	15.48	14.65	15.82	15.08	16.21	16.61
	12H	13.51	14.63	13.94	15.01	15.44	14.63	15.74	15.06	16.13	16.56
4H	2H	12.30	13.63	12.70	13.98	14.35	13.59	14.92	13.99	15.27	15.65
	3H	13.80	14.90	14.21	15.30	15.70	15.03	16.13	15.44	16.53	16.93
	4H	14.24	15.23	14.67	15.64	16.08	15.28	16.27	15.72	16.69	17.12
	6H	14.47	15.32	14.92	15.77	16.22	15.31	16.17	15.77	16.61	17.07
	8H	14.49	15.29	14.95	15.73	16.20	15.28	16.08	15.75	16.53	16.99
	12H	14.49	15.21	14.97	15.69	16.16	15.26	15.98	15.74	16.45	16.93
8H	4H	14.40	15.20	14.86	15.64	16.11	15.37	16.17	15.83	16.61	17.08
	6H	14.66	15.32	15.15	15.81	16.28	15.40	16.06	15.90	16.55	17.03
	8H	14.70	15.29	15.21	15.80	16.28	15.37	15.96	15.89	16.47	16.96
	12H	14.72	15.24	15.23	15.73	16.29	15.36	15.88	15.87	16.37	16.93
12H	4H	14.38	15.09	14.86	15.57	16.04	15.35	16.07	15.83	16.55	17.02
	6H	14.63	15.22	15.14	15.73	16.22	15.37	15.96	15.89	16.47	16.96
	8H	14.70	15.22	15.21	15.71	16.27	15.37	15.89	15.88	16.38	16.95