

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: P1499021

Luminaire Tested: MAE-G-4-120-1LO-HI-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499021
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-HI-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

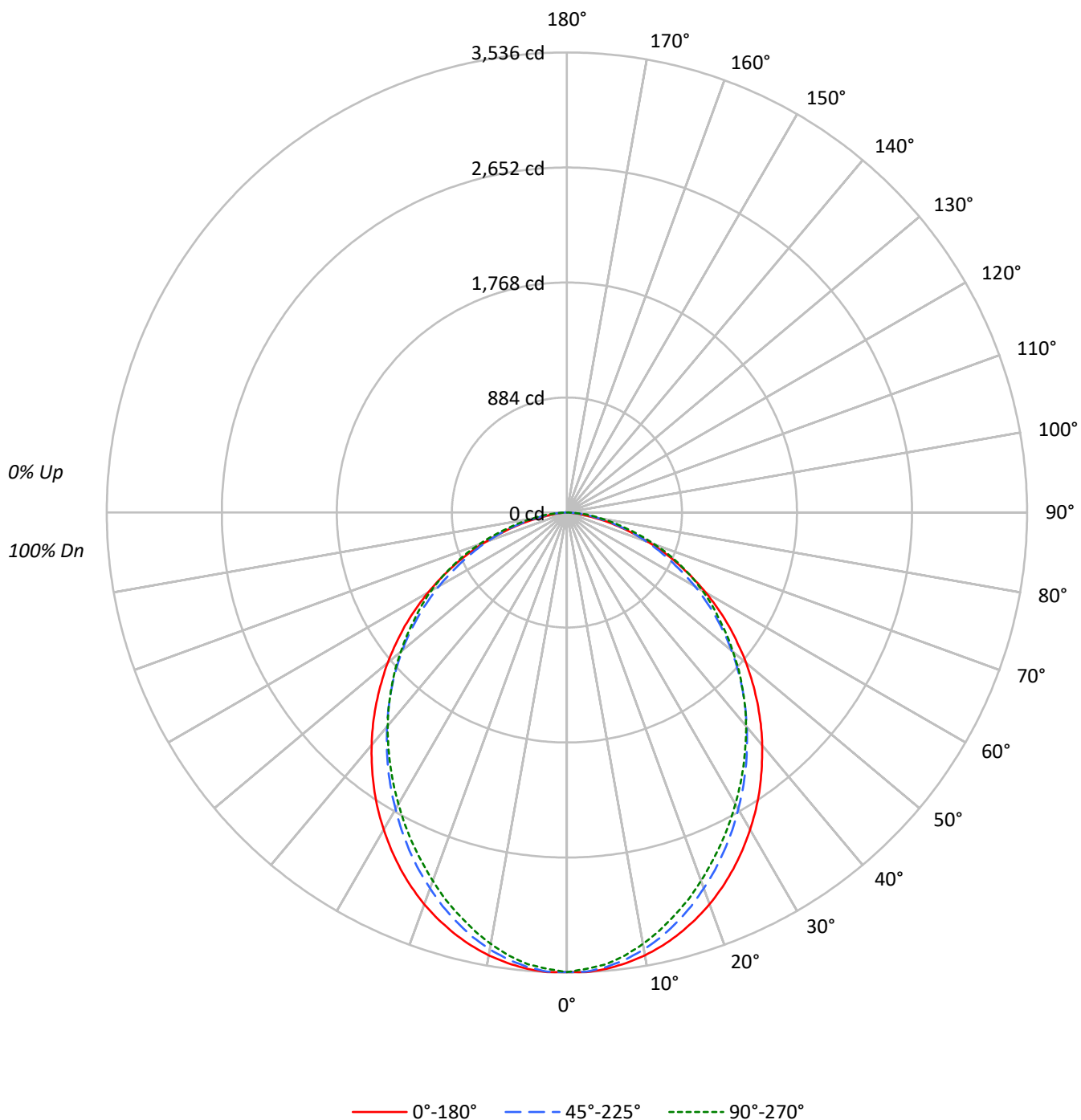
Lumens per Lamp: N/A
Luminaire Lumens: 8365.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.9
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	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	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4753	4753	4753
5°	4755	4735	4706
10°	4722	4659	4601
15°	4665	4543	4462
20°	4588	4402	4315
25°	4490	4253	4165
30°	4373	4090	4021
35°	4246	3935	3888
40°	4101	3777	3762
45°	3939	3620	3628
50°	3765	3457	3488
55°	3562	3270	3351
60°	3316	3058	3245
65°	3026	2798	3077
70°	2634	2551	2836
75°	2113	2238	2473
80°	1474	1822	2098
85°	831	1451	1947

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3939 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	4.0
10°-20°	919.6	11.0
20°-30°	1329.4	15.9
30°-40°	1522.9	18.2
40°-50°	1500.8	17.9
50°-60°	1281.0	15.3
60°-70°	910.7	10.9
70°-80°	461.5	5.5
80°-90°	108.0	1.3
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°	2580.1	30.8
0°-40°	4103.0	49.0
0°-60°	6884.9	82.3
0°-90°	8365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3532	3532	3532	3532	3532	
5°	3521	3518	3506	3476	3484	334
15°	3349	3326	3261	3202	3203	944
25°	3024	2968	2864	2805	2805	1392
35°	2585	2507	2396	2361	2367	1615
45°	2070	1993	1903	1898	1906	1596
55°	1519	1448	1394	1409	1429	1356
65°	951	895	879	940	966	940
75°	406	382	430	468	476	438
85°	54	67	94	116	126	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3532.4	3532.4	3532.4	3532.4	3532.4
2.5°	3536.3	3539.8	3532.4	3503.6	3510.1
5°	3520.8	3518.2	3505.6	3475.8	3484.2
7.5°	3493.1	3487.3	3464.6	3428.4	3433.5
10°	3456.5	3444.9	3410.2	3364.1	3367.3
12.5°	3408.7	3392.1	3342.5	3288.5	3291.1
15°	3349.3	3325.9	3261.3	3201.8	3203.3
17.5°	3281.2	3252.6	3173.3	3108.3	3114.2
20°	3204.1	3166.5	3074.1	3010.0	3013.3
22.5°	3118.3	3071.9	2973.4	2909.2	2909.2
25°	3024.1	2968.4	2864.5	2804.7	2805.4
27.5°	2923.0	2861.0	2751.6	2694.7	2698.5
30°	2814.8	2747.3	2632.3	2584.0	2588.1
32.5°	2703.0	2630.5	2515.9	2474.5	2478.6
35°	2585.3	2506.7	2395.8	2360.6	2366.9
37.5°	2459.7	2383.0	2272.1	2249.7	2254.6
40°	2334.6	2255.3	2150.2	2134.1	2142.0
42.5°	2204.5	2126.8	2027.8	2016.9	2026.6
45°	2069.9	1993.4	1902.7	1897.9	1906.4
47.5°	1933.6	1858.8	1778.4	1777.4	1789.7
50°	1798.6	1725.3	1651.5	1656.6	1666.2
52.5°	1655.5	1586.2	1524.5	1532.0	1548.7
55°	1518.6	1448.3	1394.1	1408.7	1428.7
57.5°	1376.2	1314.9	1266.4	1290.9	1318.6
60°	1232.2	1172.6	1136.3	1176.8	1205.9
62.5°	1090.1	1032.5	1005.7	1061.2	1086.4
65°	950.6	894.6	879.0	939.7	966.5
67.5°	810.6	760.5	763.5	828.1	848.0
70°	669.5	624.3	648.5	706.8	720.8
72.5°	535.7	498.7	539.5	587.1	595.1
75°	406.4	382.1	430.5	468.4	475.7
77.5°	291.6	278.9	327.6	358.7	367.0
80°	190.2	194.0	235.1	261.7	270.8
82.5°	111.4	122.8	156.0	185.8	195.3
85°	53.8	67.4	94.0	116.4	126.1
87.5°	18.3	27.4	39.8	44.3	43.1
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	16.25	17.84	16.62	18.15	18.47	16.10	17.69	16.47	18.00	18.32
	3H	17.72	19.15	18.10	19.48	19.84	17.85	19.27	18.22	19.60	19.96
	4H	18.17	19.51	18.56	19.85	20.23	18.43	19.77	18.83	20.12	20.50
	6H	18.40	19.64	18.81	20.00	20.39	18.83	20.07	19.24	20.43	20.82
	8H	18.44	19.62	18.86	20.01	20.41	18.95	20.13	19.38	20.52	20.92
	12H	18.44	19.57	18.87	19.96	20.39	19.04	20.18	19.47	20.56	20.99
4H	2H	16.74	18.08	17.14	18.43	18.80	16.62	17.96	17.02	18.31	18.68
	3H	18.40	19.52	18.81	19.92	20.32	18.57	19.69	18.98	20.09	20.49
	4H	18.93	19.94	19.36	20.35	20.79	19.28	20.29	19.71	20.70	21.14
	6H	19.25	20.12	19.70	20.57	21.02	19.79	20.67	20.25	21.11	21.57
	8H	19.31	20.13	19.77	20.57	21.04	19.96	20.78	20.42	21.22	21.69
	12H	19.33	20.07	19.82	20.55	21.02	20.10	20.83	20.58	21.31	21.78
8H	4H	19.17	19.99	19.63	20.43	20.90	19.49	20.31	19.95	20.75	21.22
	6H	19.56	20.24	20.05	20.73	21.20	20.09	20.77	20.59	21.26	21.74
	8H	19.66	20.26	20.17	20.77	21.26	20.33	20.94	20.84	21.44	21.93
	12H	19.72	20.25	20.22	20.74	21.31	20.53	21.07	21.04	21.56	22.13
12H	4H	19.19	19.92	19.67	20.40	20.87	19.49	20.22	19.97	20.70	21.17
	6H	19.59	20.20	20.10	20.71	21.20	20.11	20.72	20.62	21.22	21.71
	8H	19.73	20.27	20.24	20.76	21.33	20.39	20.93	20.90	21.42	21.98