

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: P1498430

Luminaire Tested: MAE-G-2-120-2LO-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

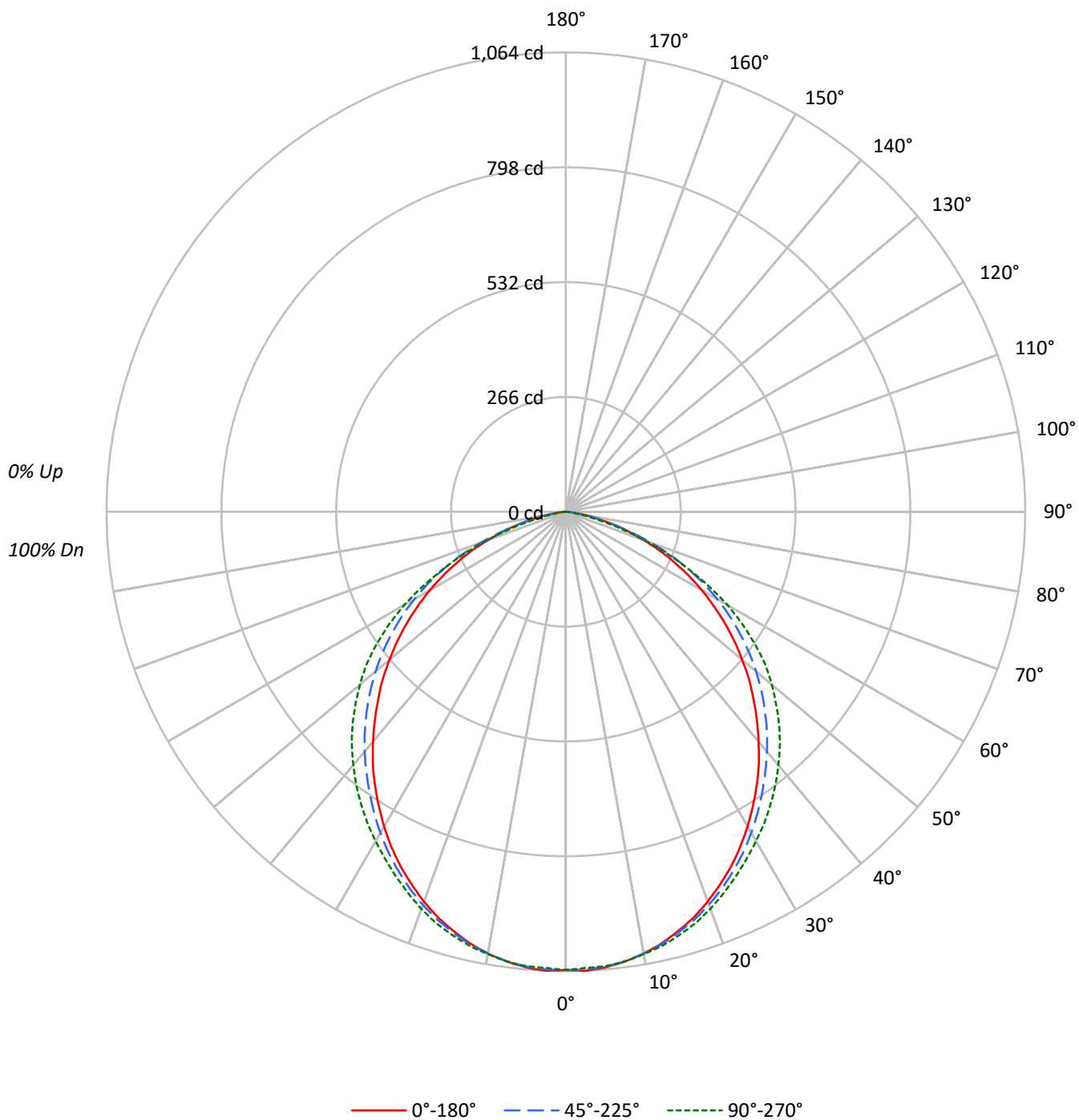
Lumens per Lamp: N/A
Luminaire Lumens: 2679.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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

TEST NUMBER: P1498430

CATALOG NUMBER: MAE-G-2-120-2LO-50-WDDCPH

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	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	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	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	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	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2856	2856	2856
5°	2861	2856	2853
10°	2839	2839	2843
15°	2801	2811	2828
20°	2751	2774	2803
25°	2690	2725	2766
30°	2616	2669	2737
35°	2533	2605	2716
40°	2440	2546	2690
45°	2340	2482	2661
50°	2231	2408	2607
55°	2108	2311	2509
60°	1959	2182	2329
65°	1767	1983	1994
70°	1508	1650	1542
75°	1184	1195	963
80°	770	615	369
85°	355	235	188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2661 cd/sqm

TEST NUMBER: P1498430

CATALOG NUMBER: MAE-G-2-120-2LO-50-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.7
10°-20°	284.3	10.6
20°-30°	422.3	15.8
30°-40°	497.5	18.6
40°-50°	504.0	18.8
50°-60°	438.6	16.4
60°-70°	298.9	11.2
70°-80°	119.5	4.5
80°-90°	13.7	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°	806.9	30.1
0°-40°	1304.3	48.7
0°-60°	2246.9	83.9
0°-90°	2679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1059	1053	1057	1056	1056	100
15°	1005	1001	1009	1013	1015	283
25°	906	906	918	926	932	417
35°	771	775	793	814	827	482
45°	615	622	652	683	699	475
55°	449	459	493	524	535	401
65°	278	290	311	312	313	275
75°	114	121	115	99	93	123
85°	12	10	8	7	6	18
90°	0	0	0	0	0	

TEST NUMBER: P1498430

CATALOG NUMBER: MAE-G-2-120-2LO-50-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1064.2	1057.4	1061.3	1060.6	1057.7
5°	1059.1	1053.0	1057.4	1055.9	1056.3
7.5°	1050.8	1045.1	1049.8	1049.4	1050.5
10°	1039.0	1033.2	1039.0	1039.3	1040.4
12.5°	1024.2	1019.1	1026.0	1027.4	1030.0
15°	1005.4	1001.1	1009.0	1012.7	1015.2
17.5°	985.3	982.4	990.3	995.0	999.0
20°	960.8	959.3	968.7	973.3	978.8
22.5°	934.1	933.4	944.6	950.3	955.7
25°	906.0	906.4	917.9	925.5	931.6
27.5°	875.0	875.7	889.8	898.8	906.4
30°	841.8	843.7	859.1	871.4	880.8
32.5°	806.9	810.1	826.7	843.7	855.5
35°	771.2	774.9	792.9	813.7	826.7
37.5°	734.5	738.5	759.3	783.9	797.6
40°	694.5	700.5	724.8	751.8	765.8
42.5°	655.1	662.0	689.1	718.6	733.8
45°	614.8	622.4	652.3	682.9	699.1
47.5°	575.9	582.3	614.4	646.5	661.0
50°	533.0	541.6	575.2	607.3	622.7
52.5°	491.9	500.2	534.5	567.2	583.1
55°	449.4	459.1	492.6	523.6	534.8
57.5°	406.5	417.7	450.1	475.7	485.4
60°	364.0	375.2	405.4	425.6	432.8
62.5°	321.1	332.6	359.3	371.6	373.0
65°	277.5	290.5	311.4	311.8	313.2
67.5°	236.1	246.8	262.0	257.7	255.5
70°	191.7	203.6	209.7	201.1	196.0
72.5°	152.5	161.1	160.0	147.4	141.3
75°	113.9	120.8	114.9	98.8	92.6
77.5°	78.9	84.7	73.1	58.0	51.9
80°	49.7	52.3	39.7	28.1	23.8
82.5°	26.7	26.3	17.0	14.0	13.0
85°	11.5	10.4	7.6	6.9	6.1
87.5°	4.0	3.6	2.9	2.5	2.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498430

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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	14.56	16.14	14.93	16.46	16.77	15.52	17.10	15.89	17.42	17.73
	3H	15.98	17.40	16.36	17.73	18.09	16.71	18.13	17.09	18.46	18.82
	4H	16.38	17.71	16.78	18.06	18.43	16.93	18.26	17.33	18.61	18.99
	6H	16.55	17.78	16.96	18.15	18.54	16.95	18.18	17.36	18.54	18.93
	8H	16.56	17.74	16.99	18.13	18.53	16.92	18.09	17.35	18.48	18.88
	12H	16.55	17.68	16.98	18.06	18.49	16.90	18.02	17.33	18.40	18.83
4H	2H	15.22	16.56	15.62	16.90	17.28	16.00	17.33	16.40	17.68	18.05
	3H	16.80	17.91	17.21	18.30	18.70	17.35	18.45	17.76	18.85	19.25
	4H	17.28	18.27	17.71	18.68	19.12	17.62	18.61	18.05	19.02	19.46
	6H	17.52	18.38	17.97	18.82	19.28	17.67	18.53	18.12	18.97	19.43
	8H	17.54	18.34	18.00	18.79	19.25	17.64	18.44	18.10	18.89	19.35
	12H	17.54	18.26	18.02	18.73	19.20	17.62	18.34	18.10	18.82	19.29
8H	4H	17.41	18.22	17.88	18.66	19.13	17.73	18.53	18.19	18.98	19.44
	6H	17.69	18.35	18.19	18.84	19.32	17.79	18.45	18.28	18.94	19.42
	8H	17.73	18.32	18.24	18.83	19.31	17.77	18.36	18.28	18.87	19.35
	12H	17.74	18.26	18.25	18.75	19.32	17.75	18.27	18.26	18.76	19.33
12H	4H	17.39	18.11	17.88	18.59	19.06	17.72	18.44	18.20	18.91	19.38
	6H	17.66	18.25	18.17	18.76	19.25	17.77	18.36	18.28	18.87	19.35
	8H	17.72	18.24	18.23	18.73	19.30	17.77	18.29	18.27	18.78	19.34