

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: P1498418

Luminaire Tested: MAE-G-2-120-2LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498418
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-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

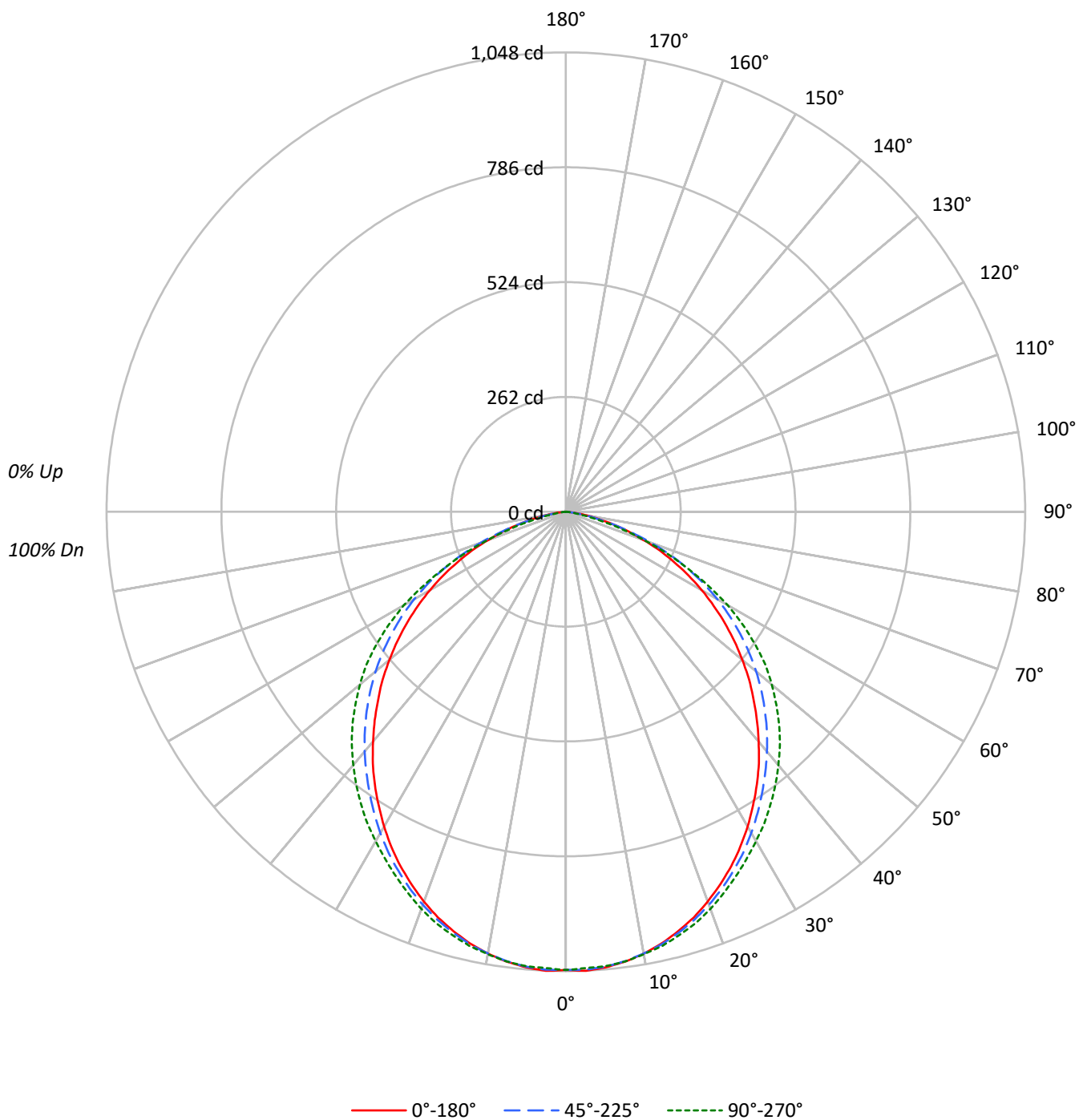
Lumens per Lamp: N/A
Luminaire Lumens: 2639.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	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		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2813	2813	2813
5°	2818	2814	2811
10°	2797	2797	2801
15°	2759	2769	2786
20°	2710	2733	2761
25°	2650	2685	2725
30°	2577	2630	2696
35°	2496	2566	2675
40°	2403	2508	2650
45°	2305	2445	2621
50°	2198	2372	2568
55°	2077	2277	2472
60°	1930	2150	2295
65°	1741	1953	1964
70°	1486	1626	1519
75°	1167	1177	949
80°	759	606	364
85°	352	232	185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	3.7
10°-20°	280.1	10.6
20°-30°	416.0	15.8
30°-40°	490.0	18.6
40°-50°	496.4	18.8
50°-60°	432.1	16.4
60°-70°	294.4	11.2
70°-80°	117.7	4.5
80°-90°	13.5	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°	794.8	30.1
0°-40°	1284.8	48.7
0°-60°	2213.4	83.9
0°-90°	2639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1045	1045	1045	1045	1045	
5°	1043	1037	1042	1040	1040	99
15°	990	986	994	998	1000	279
25°	892	893	904	912	918	411
35°	760	763	781	802	814	475
45°	606	613	642	673	689	467
55°	443	452	485	516	527	395
65°	273	286	307	307	308	271
75°	112	119	113	97	91	121
85°	11	10	8	7	6	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.4	1045.4	1045.4	1045.4	1045.4
2.5°	1048.3	1041.6	1045.4	1044.7	1041.9
5°	1043.3	1037.3	1041.6	1040.2	1040.5
7.5°	1035.2	1029.5	1034.1	1033.7	1034.8
10°	1023.5	1017.8	1023.5	1023.8	1024.9
12.5°	1008.9	1003.9	1010.7	1012.1	1014.6
15°	990.4	986.2	994.0	997.6	1000.0
17.5°	970.6	967.8	975.5	980.2	984.1
20°	946.4	945.0	954.3	958.8	964.2
22.5°	920.1	919.4	930.5	936.1	941.5
25°	892.4	892.8	904.2	911.7	917.7
27.5°	861.9	862.6	876.5	885.4	892.8
30°	829.3	831.1	846.3	858.4	867.6
32.5°	794.8	798.0	814.4	831.1	842.8
35°	759.7	763.3	781.0	801.6	814.4
37.5°	723.5	727.4	748.0	772.2	785.6
40°	684.1	690.1	713.9	740.5	754.3
42.5°	645.4	652.1	678.8	707.9	722.8
45°	605.7	613.1	642.5	672.7	688.7
47.5°	567.3	573.6	605.3	636.9	651.1
50°	525.1	533.5	566.6	598.2	613.4
52.5°	484.6	492.7	526.5	558.7	574.4
55°	442.7	452.3	485.3	515.8	526.8
57.5°	400.5	411.5	443.4	468.6	478.2
60°	358.6	369.6	399.4	419.2	426.4
62.5°	316.3	327.7	353.9	366.0	367.4
65°	273.4	286.2	306.7	307.1	308.5
67.5°	232.6	243.2	258.1	253.8	251.7
70°	188.9	200.6	206.6	198.1	193.1
72.5°	150.2	158.7	157.6	145.2	139.2
75°	112.2	118.9	113.2	97.3	91.3
77.5°	77.8	83.4	72.0	57.1	51.2
80°	49.0	51.5	39.1	27.7	23.5
82.5°	26.3	25.9	16.7	13.8	12.8
85°	11.4	10.3	7.5	6.7	6.0
87.5°	3.9	3.5	2.8	2.5	2.1
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	14.51	16.09	14.88	16.41	16.72	15.47	17.05	15.84	17.37	17.68
	3H	15.93	17.35	16.31	17.68	18.04	16.66	18.08	17.04	18.41	18.77
	4H	16.33	17.66	16.72	18.01	18.38	16.88	18.21	17.27	18.56	18.93
	6H	16.50	17.73	16.91	18.10	18.49	16.89	18.12	17.31	18.49	18.88
	8H	16.51	17.68	16.94	18.07	18.47	16.87	18.04	17.30	18.43	18.83
	12H	16.50	17.62	16.93	18.01	18.44	16.85	17.97	17.27	18.35	18.78
4H	2H	15.17	16.50	15.57	16.85	17.23	15.94	17.28	16.34	17.63	18.00
	3H	16.75	17.85	17.16	18.25	18.65	17.29	18.40	17.70	18.80	19.20
	4H	17.22	18.22	17.66	18.63	19.07	17.56	18.55	17.99	18.97	19.41
	6H	17.47	18.33	17.92	18.77	19.23	17.61	18.47	18.07	18.92	19.38
	8H	17.49	18.29	17.95	18.73	19.20	17.59	18.39	18.05	18.84	19.30
	12H	17.49	18.20	17.97	18.68	19.15	17.57	18.29	18.05	18.76	19.23
8H	4H	17.36	18.16	17.82	18.61	19.07	17.68	18.48	18.14	18.92	19.39
	6H	17.64	18.30	18.13	18.79	19.27	17.74	18.40	18.23	18.89	19.36
	8H	17.68	18.27	18.19	18.78	19.26	17.71	18.30	18.23	18.81	19.30
	12H	17.69	18.21	18.20	18.70	19.26	17.70	18.22	18.21	18.71	19.27
12H	4H	17.34	18.06	17.82	18.54	19.01	17.67	18.38	18.15	18.86	19.33
	6H	17.61	18.20	18.12	18.71	19.20	17.71	18.31	18.23	18.81	19.30
	8H	17.67	18.19	18.18	18.68	19.25	17.71	18.23	18.22	18.73	19.29