

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: P1499150

Luminaire Tested: MAE-G-4-120-1STD-LO-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499150
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-4-120-1STD-LO-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

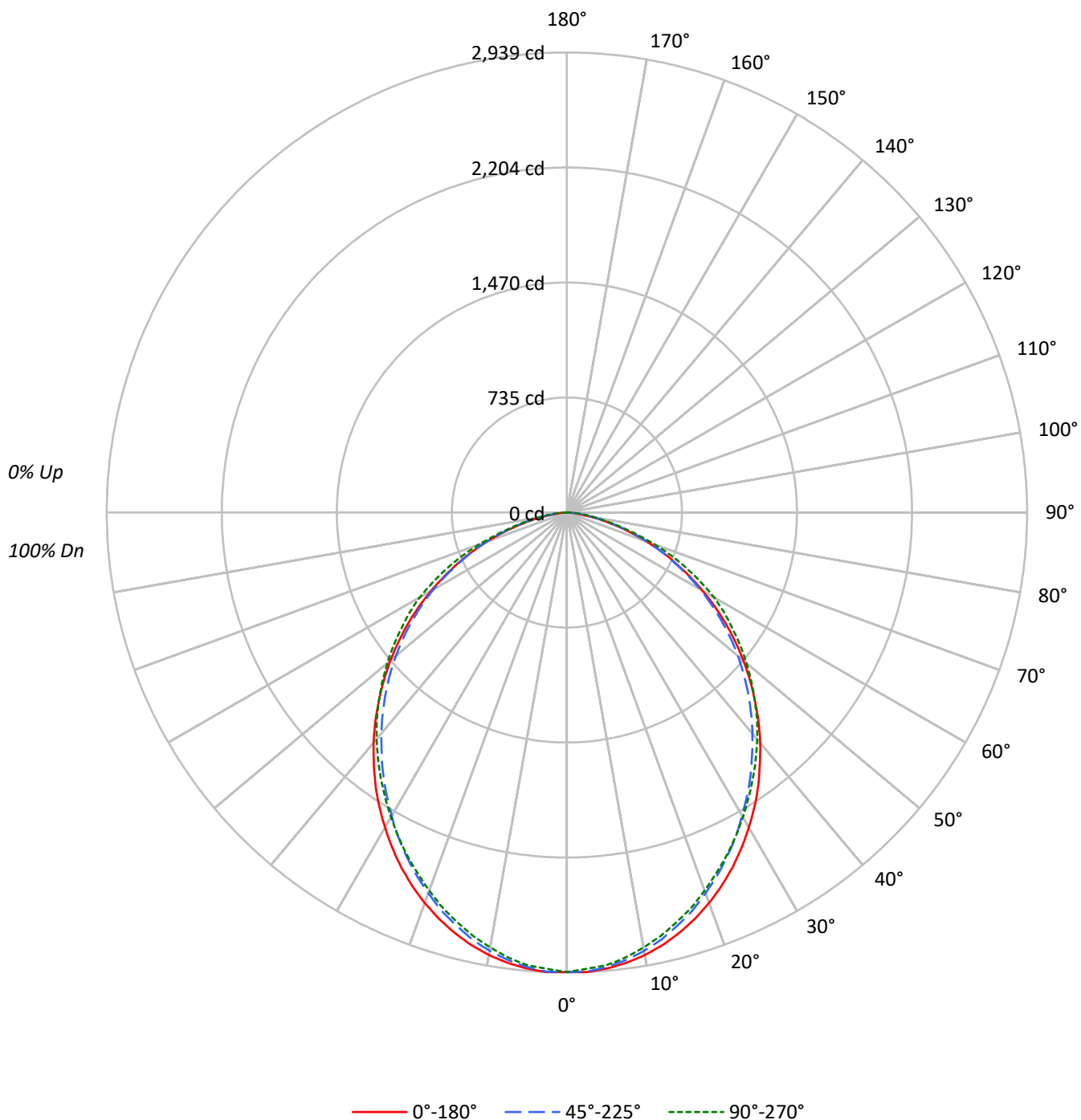
Lumens per Lamp: N/A
Luminaire Lumens: 7071.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	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	39	50	43	38	48	42	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	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3950	3950	3950
5°	3951	3937	3921
10°	3921	3885	3856
15°	3871	3805	3773
20°	3801	3706	3681
25°	3714	3598	3586
30°	3610	3476	3491
35°	3499	3360	3403
40°	3373	3237	3321
45°	3231	3115	3228
50°	3081	2983	3132
55°	2907	2827	3024
60°	2693	2648	2921
65°	2445	2406	2684
70°	2118	2145	2344
75°	1684	1790	1849
80°	1158	1333	1395
85°	644	983	1249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3231 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	3.9
10°-20°	770.7	10.9
20°-30°	1122.9	15.9
30°-40°	1295.9	18.3
40°-50°	1286.1	18.2
50°-60°	1103.3	15.6
60°-70°	774.4	11.0
70°-80°	366.3	5.2
80°-90°	75.8	1.1
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°	2169.3	30.7
0°-40°	3465.2	49.0
0°-60°	5854.6	82.8
0°-90°	7071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2936	2936	2936	2936	2936	
5°	2925	2922	2915	2897	2903	277
15°	2779	2766	2731	2703	2709	783
25°	2502	2471	2424	2404	2415	1151
35°	2130	2090	2046	2052	2072	1331
45°	1698	1663	1637	1672	1697	1310
55°	1239	1207	1205	1255	1289	1106
65°	768	744	756	817	843	760
75°	324	314	344	359	356	350
85°	42	50	64	76	81	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2935.6	2935.6	2935.6	2935.6	2935.6
2.5°	2939.0	2941.2	2935.6	2914.8	2917.5
5°	2925.1	2922.4	2914.8	2896.8	2903.0
7.5°	2901.5	2898.0	2884.3	2863.5	2867.7
10°	2870.1	2863.1	2843.2	2817.7	2822.0
12.5°	2829.8	2820.9	2793.2	2765.1	2770.0
15°	2778.8	2765.8	2731.3	2703.4	2708.9
17.5°	2720.4	2706.6	2665.5	2635.3	2645.8
20°	2654.3	2634.9	2588.2	2560.9	2570.9
22.5°	2581.7	2557.0	2508.9	2483.8	2493.0
25°	2501.8	2471.4	2423.6	2404.5	2415.3
27.5°	2415.3	2382.3	2334.5	2318.4	2333.3
30°	2323.4	2288.3	2237.1	2230.8	2247.0
32.5°	2229.3	2192.3	2142.5	2143.9	2160.1
35°	2130.5	2089.9	2045.8	2052.0	2071.8
37.5°	2024.7	1986.2	1943.3	1963.0	1982.0
40°	1920.3	1880.4	1843.1	1869.0	1890.9
42.5°	1811.6	1773.9	1741.5	1771.6	1796.9
45°	1698.1	1663.3	1637.1	1672.0	1696.7
47.5°	1584.6	1549.6	1532.0	1570.4	1598.5
50°	1471.9	1439.1	1425.3	1468.6	1496.3
52.5°	1354.3	1322.8	1317.5	1362.2	1395.3
55°	1239.4	1207.1	1205.3	1255.4	1289.3
57.5°	1121.0	1096.5	1095.9	1150.9	1191.8
60°	1000.6	975.9	983.9	1048.5	1085.6
62.5°	883.6	859.0	868.1	939.5	964.0
65°	768.1	743.5	755.8	816.7	843.2
67.5°	654.7	631.3	652.6	707.8	724.4
70°	538.4	517.9	545.2	589.6	595.8
72.5°	429.9	412.0	444.7	472.4	471.5
75°	324.0	313.9	344.4	359.2	355.6
77.5°	231.5	226.1	252.2	259.6	256.5
80°	149.5	153.1	172.1	176.8	180.0
82.5°	86.9	93.8	108.2	123.9	127.3
85°	41.7	49.9	63.7	76.1	80.9
87.5°	14.5	20.0	26.3	29.1	28.3
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	15.55	17.13	15.91	17.44	17.76	15.91	17.49	16.27	17.81	18.12
	3H	16.98	18.40	17.36	18.73	19.09	17.50	18.92	17.87	19.25	19.61
	4H	17.40	18.74	17.80	19.09	19.46	17.95	19.29	18.35	19.63	20.01
	6H	17.61	18.85	18.02	19.22	19.61	18.19	19.43	18.60	19.79	20.18
	8H	17.65	18.82	18.07	19.21	19.61	18.26	19.43	18.68	19.82	20.22
	12H	17.65	18.78	18.08	19.16	19.59	18.30	19.43	18.73	19.81	20.24
4H	2H	16.08	17.42	16.48	17.76	18.14	16.38	17.71	16.78	18.06	18.44
	3H	17.70	18.81	18.11	19.21	19.61	18.16	19.28	18.57	19.68	20.08
	4H	18.20	19.20	18.63	19.62	20.05	18.72	19.72	19.15	20.14	20.58
	6H	18.49	19.36	18.95	19.81	20.26	19.06	19.93	19.51	20.37	20.83
	8H	18.54	19.36	19.00	19.80	20.27	19.15	19.97	19.61	20.41	20.88
	12H	18.56	19.29	19.04	19.77	20.24	19.23	19.96	19.71	20.43	20.90
8H	4H	18.42	19.23	18.88	19.67	20.14	18.89	19.70	19.35	20.15	20.61
	6H	18.77	19.44	19.26	19.93	20.41	19.29	19.97	19.79	20.46	20.93
	8H	18.85	19.45	19.36	19.96	20.45	19.43	20.04	19.95	20.55	21.03
	12H	18.90	19.43	19.41	19.92	20.49	19.56	20.09	20.07	20.59	21.15
12H	4H	18.42	19.15	18.90	19.63	20.10	18.89	19.62	19.37	20.09	20.56
	6H	18.78	19.39	19.29	19.89	20.38	19.29	19.90	19.81	20.41	20.89
	8H	18.90	19.44	19.41	19.93	20.49	19.48	20.01	19.98	20.50	21.06