

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: P1498862

Luminaire Tested: MAE-G-2-120-3STD-LO-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3STD-LO-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

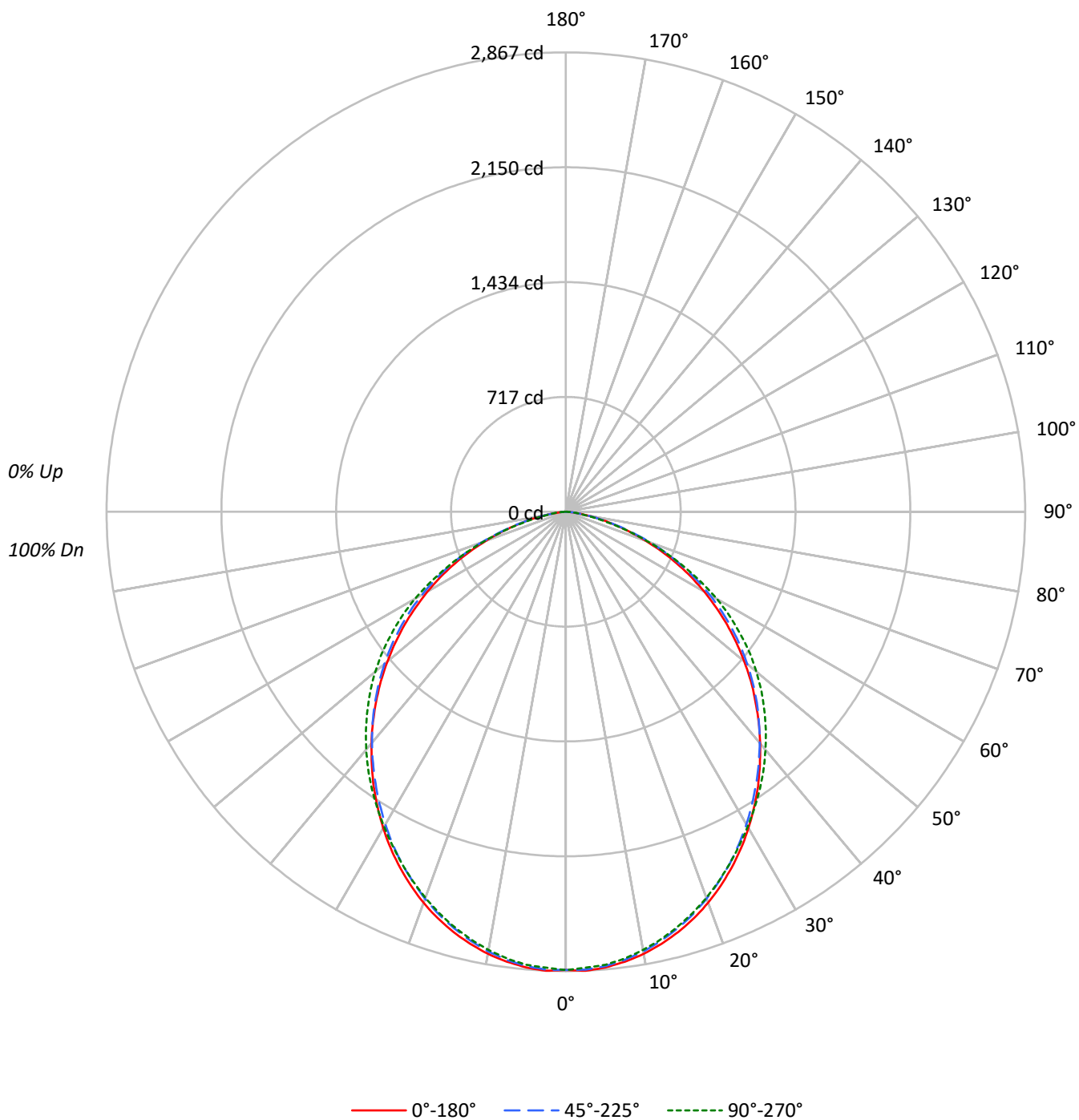
Lumens per Lamp: N/A
Luminaire Lumens: 7076.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7696	7696	7696
5°	7710	7687	7666
10°	7656	7614	7586
15°	7563	7500	7477
20°	7437	7360	7342
25°	7273	7192	7191
30°	7084	7000	7051
35°	6871	6803	6935
40°	6630	6611	6810
45°	6369	6413	6668
50°	6084	6187	6499
55°	5764	5923	6235
60°	5365	5580	5866
65°	4868	5107	5203
70°	4186	4408	4322
75°	3319	3447	3129
80°	2221	2173	1912
85°	1130	1291	1516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6668 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.4	3.8
10°-20°	758.5	10.7
20°-30°	1116.5	15.8
30°-40°	1302.8	18.4
40°-50°	1308.5	18.5
50°-60°	1132.6	16.0
60°-70°	785.5	11.1
70°-80°	345.6	4.9
80°-90°	56.5	0.8
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°	2144.4	30.3
0°-40°	3447.2	48.7
0°-60°	5888.4	83.2
0°-90°	7076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2860	2860	2860	2860	2860	
5°	2854	2841	2846	2834	2838	271
15°	2715	2698	2692	2679	2684	765
25°	2449	2432	2422	2410	2422	1128
35°	2092	2072	2071	2088	2111	1307
45°	1674	1662	1685	1727	1752	1291
55°	1228	1222	1262	1312	1329	1097
65°	764	769	802	815	817	756
75°	319	325	332	313	301	343
85°	37	38	42	47	49	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2859.9	2859.9	2859.9	2859.9	2859.9
2.5°	2867.4	2854.2	2859.9	2851.1	2848.1
5°	2854.3	2841.2	2845.8	2834.4	2837.8
7.5°	2832.1	2818.6	2820.6	2808.6	2812.1
10°	2801.8	2786.5	2786.3	2773.4	2776.3
12.5°	2761.6	2746.4	2743.7	2729.3	2734.5
15°	2714.6	2698.2	2692.0	2678.9	2683.8
17.5°	2659.8	2642.4	2635.2	2619.5	2627.3
20°	2597.0	2578.9	2570.1	2553.3	2563.8
22.5°	2526.7	2508.3	2497.7	2483.8	2494.7
25°	2449.4	2431.5	2422.3	2410.4	2421.9
27.5°	2368.0	2348.2	2339.9	2333.5	2346.1
30°	2279.9	2260.0	2252.9	2251.8	2269.3
32.5°	2186.9	2167.8	2163.3	2171.3	2191.3
35°	2091.5	2071.7	2070.8	2087.9	2111.1
37.5°	1988.9	1973.6	1977.7	2003.6	2027.3
40°	1887.4	1871.3	1882.0	1913.8	1938.5
42.5°	1782.4	1769.2	1784.8	1823.5	1846.7
45°	1673.5	1662.2	1685.2	1726.8	1752.2
47.5°	1567.1	1554.9	1583.4	1628.2	1655.2
50°	1453.3	1445.0	1477.9	1527.0	1552.3
52.5°	1341.0	1332.8	1370.9	1422.3	1446.2
55°	1228.5	1222.0	1262.4	1311.9	1329.0
57.5°	1112.3	1111.6	1152.2	1195.0	1212.4
60°	996.8	997.0	1036.8	1075.1	1090.0
62.5°	881.2	884.0	920.9	950.3	954.1
65°	764.5	768.8	802.1	815.3	817.1
67.5°	646.8	653.8	682.4	686.3	684.5
70°	532.0	537.0	560.3	557.8	549.3
72.5°	420.6	428.0	440.5	431.8	419.4
75°	319.2	325.2	331.5	313.0	300.9
77.5°	224.8	228.9	228.4	208.7	200.4
80°	143.3	147.9	140.2	129.0	123.4
82.5°	79.6	83.5	76.9	80.5	82.3
85°	36.6	38.2	41.8	47.0	49.1
87.5°	12.5	14.3	17.0	17.9	16.5
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	18.02	19.60	18.39	19.92	20.23	18.54	20.13	18.91	20.44	20.75
	3H	19.46	20.88	19.84	21.21	21.57	19.91	21.33	20.29	21.66	22.02
	4H	19.87	21.21	20.27	21.56	21.94	20.24	21.58	20.64	21.93	22.31
	6H	20.07	21.31	20.48	21.67	22.06	20.37	21.60	20.78	21.97	22.36
	8H	20.09	21.27	20.52	21.66	22.06	20.38	21.56	20.81	21.95	22.35
	12H	20.09	21.22	20.52	21.60	22.03	20.38	21.51	20.81	21.89	22.32
4H	2H	18.62	19.96	19.02	20.31	20.69	19.04	20.38	19.44	20.73	21.11
	3H	20.23	21.34	20.64	21.74	22.14	20.59	21.70	21.00	22.10	22.50
	4H	20.73	21.73	21.16	22.15	22.58	21.01	22.01	21.44	22.42	22.86
	6H	21.00	21.87	21.46	22.31	22.77	21.19	22.06	21.65	22.50	22.96
	8H	21.04	21.85	21.50	22.29	22.76	21.22	22.03	21.68	22.47	22.94
	12H	21.05	21.77	21.53	22.25	22.72	21.23	21.96	21.72	22.44	22.91
8H	4H	20.91	21.72	21.37	22.16	22.63	21.16	21.97	21.62	22.41	22.88
	6H	21.22	21.89	21.72	22.38	22.86	21.38	22.05	21.88	22.54	23.02
	8H	21.28	21.88	21.80	22.39	22.88	21.43	22.03	21.94	22.54	23.02
	12H	21.31	21.84	21.82	22.33	22.89	21.47	22.00	21.98	22.49	23.05
12H	4H	20.90	21.63	21.38	22.10	22.57	21.15	21.88	21.63	22.36	22.83
	6H	21.21	21.81	21.72	22.32	22.81	21.37	21.97	21.88	22.48	22.97
	8H	21.30	21.83	21.81	22.32	22.89	21.45	21.98	21.96	22.47	23.03