

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: P1498790

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498790
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-2-120-3LO-STD-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

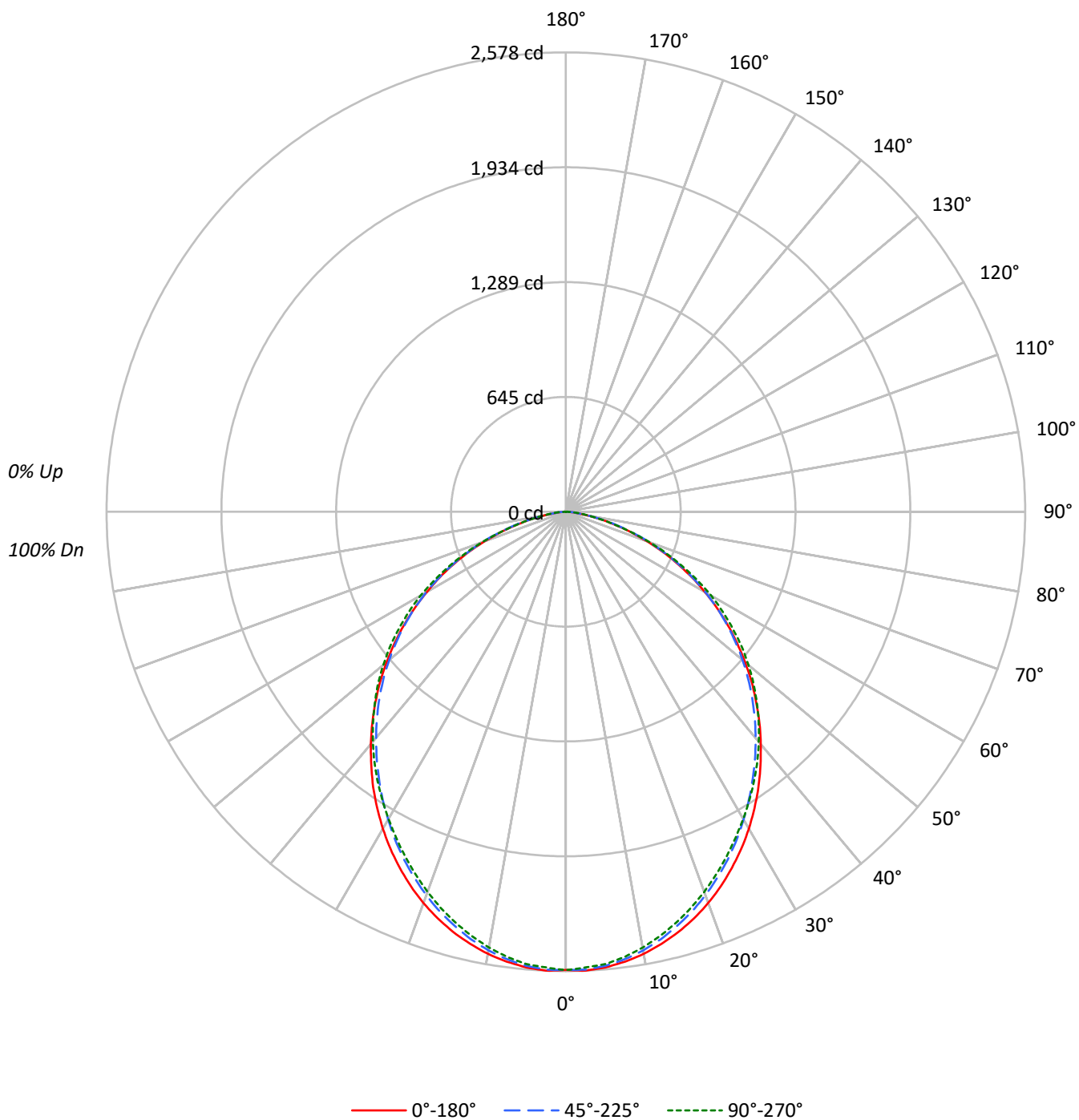
Lumens per Lamp: N/A
Luminaire Lumens: 6287.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 71.5
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	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	88	85		
2	100	92	86	81	98	91	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	56	66	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	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	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	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6920	6920	6920
5°	6932	6908	6881
10°	6885	6829	6785
15°	6802	6707	6653
20°	6692	6559	6500
25°	6547	6389	6336
30°	6382	6199	6184
35°	6194	6007	6053
40°	5981	5820	5918
45°	5749	5630	5769
50°	5496	5419	5599
55°	5210	5176	5365
60°	4856	4870	5071
65°	4416	4465	4582
70°	3811	3910	3934
75°	3036	3161	3048
80°	2056	2160	2118
85°	1071	1433	1797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	3.8
10°-20°	678.3	10.8
20°-30°	993.3	15.8
30°-40°	1153.3	18.3
40°-50°	1152.8	18.3
50°-60°	994.4	15.8
60°-70°	694.6	11.0
70°-80°	319.3	5.1
80°-90°	58.9	0.9
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°	1913.6	30.4
0°-40°	3066.9	48.8
0°-60°	5214.1	82.9
0°-90°	6287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2572	2572	2572	2572	2572	
5°	2566	2556	2557	2544	2547	243
15°	2442	2425	2408	2385	2388	688
25°	2205	2181	2152	2128	2134	1015
35°	1885	1855	1829	1828	1843	1178
45°	1511	1486	1480	1500	1516	1165
55°	1110	1090	1103	1133	1144	991
65°	694	684	701	716	720	685
75°	292	291	304	299	293	314
85°	35	38	46	55	58	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2571.6	2571.6	2571.6	2571.6	2571.6
2.5°	2577.6	2568.4	2571.6	2560.8	2559.9
5°	2566.2	2556.3	2557.4	2543.5	2547.4
7.5°	2546.3	2535.3	2532.7	2517.0	2520.2
10°	2519.5	2505.9	2499.3	2480.9	2483.1
12.5°	2483.7	2469.1	2457.6	2436.1	2439.6
15°	2441.6	2424.9	2407.5	2385.1	2388.0
17.5°	2392.8	2373.8	2352.5	2326.9	2332.0
20°	2336.9	2315.8	2290.3	2263.5	2269.9
22.5°	2274.1	2251.2	2222.8	2197.4	2203.4
25°	2205.1	2181.0	2151.8	2127.9	2134.1
27.5°	2132.5	2105.5	2075.1	2055.7	2062.5
30°	2053.9	2025.5	1995.0	1979.8	1990.3
32.5°	1970.8	1942.0	1913.2	1905.2	1917.5
35°	1885.4	1854.8	1828.6	1828.2	1842.6
37.5°	1793.6	1766.4	1743.7	1750.8	1765.4
40°	1702.5	1674.3	1656.9	1669.0	1684.6
42.5°	1608.2	1582.2	1569.1	1587.1	1601.3
45°	1510.7	1485.6	1479.5	1500.4	1516.0
47.5°	1414.4	1389.3	1388.5	1412.3	1429.5
50°	1312.8	1290.7	1294.4	1322.1	1337.4
52.5°	1211.0	1190.0	1199.4	1229.2	1244.4
55°	1110.4	1090.4	1103.3	1132.6	1143.6
57.5°	1006.1	991.4	1005.9	1032.4	1044.4
60°	902.2	888.8	904.8	930.7	942.2
62.5°	798.1	787.3	803.8	826.3	831.4
65°	693.6	684.5	701.2	715.9	719.6
67.5°	587.7	582.3	599.3	609.8	611.0
70°	484.4	478.3	496.9	503.2	500.0
72.5°	384.0	381.8	396.5	398.8	392.3
75°	292.0	290.9	304.0	298.9	293.2
77.5°	206.5	206.7	216.0	209.7	206.9
80°	132.7	136.5	139.4	138.7	136.7
82.5°	74.6	79.6	81.9	90.5	94.2
85°	34.7	38.3	46.4	54.6	58.2
87.5°	11.7	14.7	19.2	20.8	19.5
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	17.65	19.24	18.02	19.55	19.87	17.93	19.52	18.30	19.83	20.15
	3H	19.11	20.53	19.49	20.86	21.22	19.39	20.82	19.77	21.15	21.51
	4H	19.53	20.87	19.93	21.22	21.60	19.80	21.14	20.20	21.48	21.86
	6H	19.74	20.98	20.15	21.34	21.73	19.99	21.23	20.40	21.59	21.98
	8H	19.77	20.95	20.19	21.33	21.73	20.03	21.21	20.46	21.60	22.00
	12H	19.76	20.89	20.19	21.28	21.70	20.05	21.18	20.48	21.57	21.99
4H	2H	18.22	19.56	18.62	19.91	20.29	18.45	19.79	18.85	20.14	20.51
	3H	19.86	20.97	20.27	21.37	21.77	20.10	21.21	20.51	21.61	22.01
	4H	20.36	21.37	20.80	21.78	22.22	20.59	21.59	21.03	22.01	22.45
	6H	20.65	21.52	21.10	21.96	22.42	20.86	21.73	21.32	22.18	22.63
	8H	20.69	21.50	21.15	21.95	22.41	20.92	21.74	21.39	22.18	22.65
	12H	20.70	21.43	21.18	21.91	22.38	20.97	21.70	21.45	22.18	22.65
8H	4H	20.56	21.37	21.02	21.81	22.28	20.76	21.58	21.23	22.02	22.49
	6H	20.89	21.57	21.39	22.05	22.53	21.09	21.76	21.58	22.25	22.73
	8H	20.96	21.56	21.48	22.07	22.56	21.18	21.79	21.70	22.29	22.78
	12H	21.00	21.53	21.51	22.02	22.58	21.27	21.80	21.78	22.29	22.85
12H	4H	20.56	21.28	21.04	21.76	22.23	20.76	21.49	21.24	21.97	22.44
	6H	20.89	21.49	21.40	22.00	22.49	21.09	21.69	21.60	22.20	22.68
	8H	21.00	21.53	21.51	22.02	22.58	21.22	21.75	21.72	22.24	22.80