

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: P1499375

Luminaire Tested: MAE-G-4-120-2STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499375
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-4-120-2STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

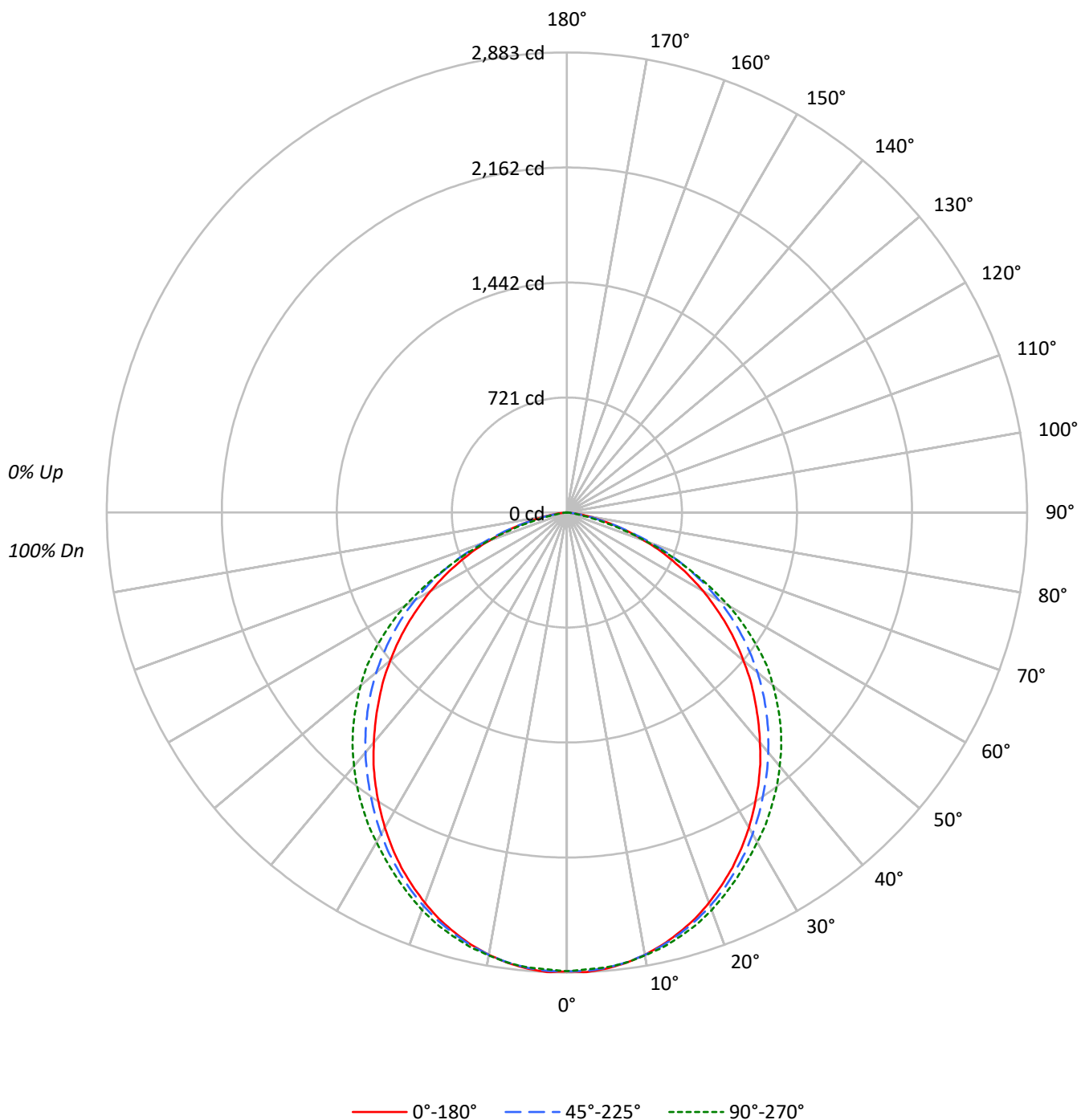
Lumens per Lamp: N/A
Luminaire Lumens: 7257.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
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	102	102	100
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	57	50	76	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	41
7	67	53	45	39	65	53	45	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	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3868	3868	3868
5°	3875	3869	3865
10°	3845	3845	3850
15°	3794	3807	3830
20°	3727	3757	3796
25°	3643	3691	3746
30°	3543	3616	3707
35°	3431	3528	3678
40°	3304	3448	3644
45°	3169	3362	3604
50°	3022	3261	3531
55°	2856	3130	3398
60°	2653	2955	3155
65°	2393	2685	2701
70°	2043	2235	2089
75°	1604	1618	1304
80°	1043	833	500
85°	483	316	256

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3604 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	3.7
10°-20°	770.1	10.6
20°-30°	1144.0	15.8
30°-40°	1347.5	18.6
40°-50°	1365.2	18.8
50°-60°	1188.2	16.4
60°-70°	809.7	11.2
70°-80°	323.7	4.5
80°-90°	37.1	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°	2185.7	30.1
0°-40°	3533.2	48.7
0°-60°	6086.6	83.9
0°-90°	7257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2875	2875	2875	2875	2875	
5°	2869	2852	2864	2860	2861	272
15°	2724	2712	2733	2743	2750	768
25°	2454	2455	2486	2507	2524	1129
35°	2089	2099	2148	2204	2239	1306
45°	1666	1686	1767	1850	1894	1285
55°	1217	1244	1334	1418	1449	1087
65°	752	787	843	844	848	745
75°	308	327	311	268	251	332
85°	31	28	20	19	17	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2874.9	2874.9	2874.9	2874.9	2874.9
2.5°	2882.8	2864.3	2874.9	2872.9	2865.1
5°	2869.0	2852.4	2864.3	2860.4	2861.3
7.5°	2846.6	2831.1	2843.8	2842.7	2845.7
10°	2814.4	2798.9	2814.4	2815.3	2818.3
12.5°	2774.3	2760.7	2779.3	2783.2	2790.1
15°	2723.6	2712.0	2733.3	2743.2	2749.9
17.5°	2669.0	2661.2	2682.6	2695.3	2706.1
20°	2602.6	2598.7	2624.1	2636.7	2651.3
22.5°	2530.3	2528.3	2558.8	2574.3	2589.0
25°	2454.1	2455.2	2486.5	2507.0	2523.6
27.5°	2370.2	2372.1	2410.3	2434.7	2455.2
30°	2280.4	2285.4	2327.2	2360.5	2385.9
32.5°	2185.7	2194.5	2239.4	2285.4	2317.5
35°	2089.0	2099.0	2147.7	2204.3	2239.4
37.5°	1989.6	2000.4	2056.9	2123.3	2160.5
40°	1881.3	1897.7	1963.2	2036.4	2074.4
42.5°	1774.7	1793.2	1866.6	1946.6	1987.6
45°	1665.5	1686.0	1766.9	1850.0	1893.8
47.5°	1560.0	1577.5	1664.4	1751.4	1790.4
50°	1443.9	1467.2	1558.0	1645.0	1686.9
52.5°	1332.6	1355.0	1447.8	1536.5	1579.6
55°	1217.3	1243.7	1334.5	1418.4	1448.6
57.5°	1101.3	1131.5	1219.3	1288.5	1314.9
60°	986.0	1016.3	1098.2	1152.8	1172.5
62.5°	869.7	901.0	973.3	1006.5	1010.4
65°	751.7	786.9	843.4	844.5	848.4
67.5°	639.5	668.7	709.7	698.0	692.2
70°	519.3	551.5	568.1	544.8	531.0
72.5°	413.0	436.3	433.5	399.2	382.8
75°	308.5	327.1	311.3	267.5	250.9
77.5°	213.8	229.4	198.1	157.1	140.7
80°	134.6	141.5	107.5	76.2	64.5
82.5°	72.3	71.2	46.0	38.0	35.2
85°	31.3	28.3	20.5	18.6	16.6
87.5°	10.8	9.7	7.8	6.9	5.8
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	15.62	17.20	15.98	17.51	17.83	16.58	18.16	16.94	18.47	18.79
	3H	17.04	18.46	17.41	18.78	19.15	17.77	19.19	18.14	19.51	19.87
	4H	17.43	18.76	17.83	19.11	19.49	17.98	19.31	18.38	19.66	20.04
	6H	17.60	18.83	18.02	19.20	19.59	18.00	19.23	18.41	19.60	19.99
	8H	17.62	18.79	18.04	19.18	19.58	17.98	19.15	18.40	19.54	19.94
	12H	17.61	18.73	18.04	19.11	19.54	17.95	19.07	18.38	19.45	19.88
4H	2H	16.28	17.61	16.68	17.96	18.33	17.05	18.38	17.45	18.73	19.11
	3H	17.86	18.96	18.27	19.36	19.76	18.40	19.50	18.81	19.90	20.30
	4H	18.33	19.32	18.76	19.74	20.17	18.67	19.66	19.10	20.08	20.51
	6H	18.57	19.43	19.03	19.87	20.33	18.72	19.58	19.18	20.02	20.48
	8H	18.59	19.40	19.06	19.84	20.31	18.70	19.50	19.16	19.94	20.41
	12H	18.59	19.31	19.07	19.79	20.26	18.67	19.39	19.16	19.87	20.34
8H	4H	18.47	19.27	18.93	19.71	20.18	18.78	19.59	19.25	20.03	20.50
	6H	18.74	19.40	19.24	19.89	20.37	18.84	19.50	19.34	19.99	20.47
	8H	18.78	19.37	19.29	19.88	20.37	18.82	19.41	19.33	19.92	20.41
	12H	18.79	19.31	19.30	19.81	20.37	18.80	19.32	19.31	19.82	20.38
12H	4H	18.45	19.17	18.93	19.64	20.11	18.77	19.49	19.25	19.97	20.44
	6H	18.71	19.30	19.22	19.81	20.30	18.82	19.41	19.33	19.92	20.41
	8H	18.78	19.30	19.28	19.79	20.35	18.82	19.34	19.33	19.83	20.40