

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: P1499279

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499279
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-4-120-2LO-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

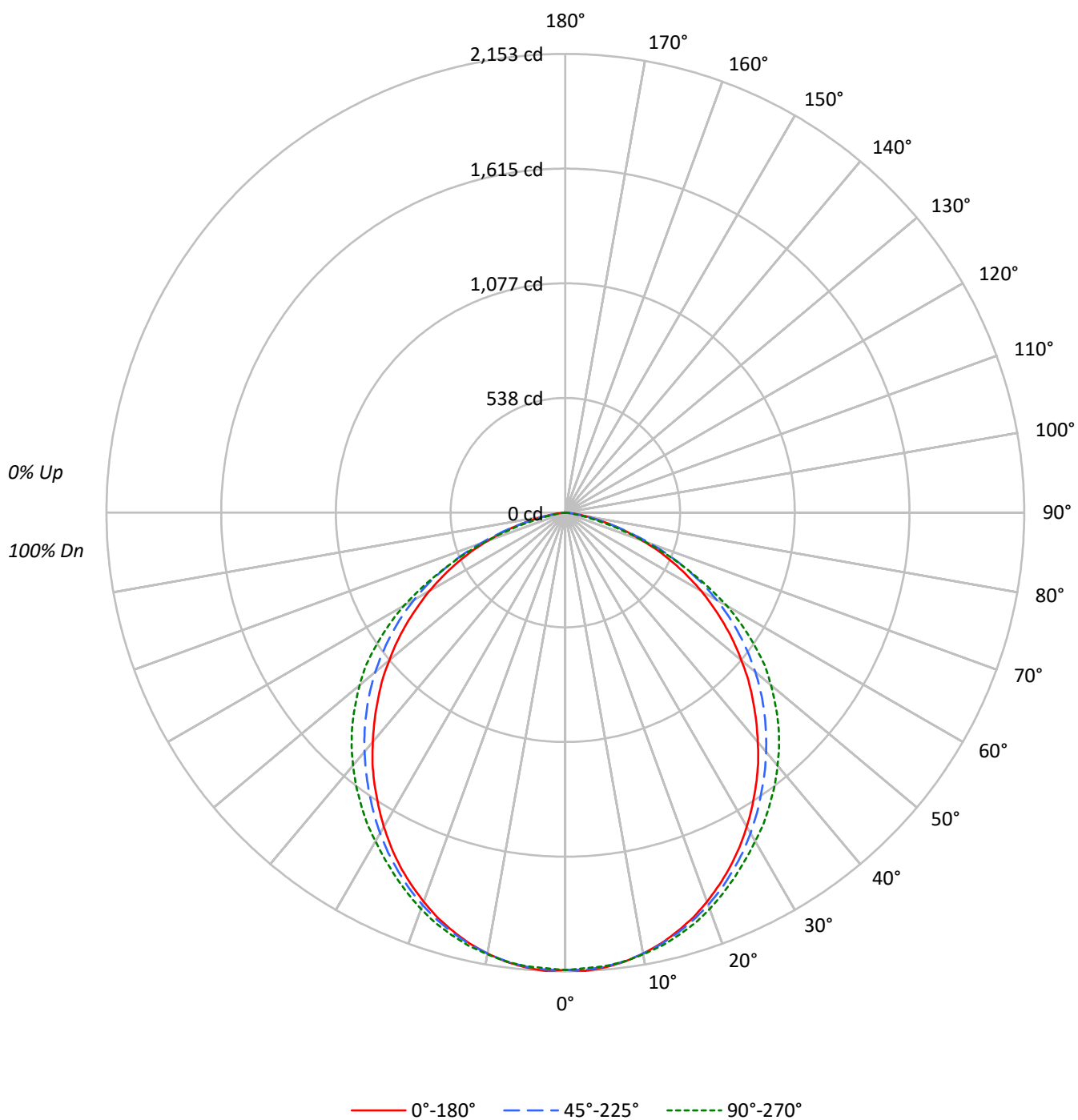
Lumens per Lamp: N/A
Luminaire Lumens: 5419.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53		
5	78	65	57	50	76	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	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	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	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2888	2888	2888
5°	2894	2889	2886
10°	2871	2871	2875
15°	2833	2843	2860
20°	2783	2806	2835
25°	2721	2756	2798
30°	2646	2700	2768
35°	2562	2634	2747
40°	2467	2575	2721
45°	2367	2511	2691
50°	2257	2435	2637
55°	2132	2338	2537
60°	1981	2207	2356
65°	1787	2005	2017
70°	1526	1669	1560
75°	1198	1209	974
80°	779	621	373
85°	361	236	191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	3.7
10°-20°	575.1	10.6
20°-30°	854.3	15.8
30°-40°	1006.2	18.6
40°-50°	1019.4	18.8
50°-60°	887.3	16.4
60°-70°	604.6	11.2
70°-80°	241.7	4.5
80°-90°	27.7	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°	1632.1	30.1
0°-40°	2638.3	48.7
0°-60°	4545.0	83.9
0°-90°	5419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2142	2130	2139	2136	2137	203
15°	2034	2025	2041	2048	2053	573
25°	1833	1833	1857	1872	1884	843
35°	1560	1567	1604	1646	1672	975
45°	1244	1259	1319	1381	1414	960
55°	909	929	996	1059	1082	812
65°	561	588	630	631	634	556
75°	230	244	232	200	187	248
85°	23	21	15	14	12	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2146.7	2146.7	2146.7	2146.7	2146.7
2.5°	2152.7	2138.8	2146.7	2145.3	2139.5
5°	2142.4	2130.0	2138.8	2135.9	2136.6
7.5°	2125.6	2114.0	2123.5	2122.7	2125.0
10°	2101.6	2090.0	2101.6	2102.3	2104.5
12.5°	2071.7	2061.5	2075.4	2078.3	2083.4
15°	2033.8	2025.1	2041.0	2048.5	2053.4
17.5°	1993.0	1987.2	2003.2	2012.7	2020.7
20°	1943.4	1940.5	1959.5	1968.9	1979.8
22.5°	1889.4	1888.0	1910.7	1922.3	1933.3
25°	1832.6	1833.4	1856.7	1872.0	1884.4
27.5°	1769.9	1771.3	1799.8	1818.1	1833.4
30°	1702.9	1706.6	1737.8	1762.6	1781.6
32.5°	1632.1	1638.7	1672.2	1706.6	1730.6
35°	1559.9	1567.4	1603.8	1646.0	1672.2
37.5°	1485.7	1493.7	1535.9	1585.6	1613.3
40°	1404.8	1417.0	1466.0	1520.6	1549.0
42.5°	1325.2	1339.0	1393.8	1453.6	1484.2
45°	1243.7	1259.0	1319.4	1381.4	1414.1
47.5°	1164.9	1177.9	1242.9	1307.8	1337.0
50°	1078.2	1095.6	1163.4	1228.4	1259.6
52.5°	995.1	1011.8	1081.1	1147.3	1179.5
55°	909.0	928.7	996.5	1059.2	1081.7
57.5°	822.3	844.9	910.5	962.2	981.9
60°	736.3	758.9	820.1	860.9	875.5
62.5°	649.5	672.8	726.8	751.6	754.5
65°	561.3	587.6	629.8	630.6	633.5
67.5°	477.6	499.3	529.9	521.2	516.9
70°	387.8	411.8	424.2	406.8	396.5
72.5°	308.4	325.8	323.7	298.1	285.8
75°	230.4	244.3	232.5	199.8	187.4
77.5°	159.7	171.3	147.9	117.3	105.0
80°	100.5	105.7	80.2	56.9	48.2
82.5°	54.0	53.2	34.3	28.4	26.3
85°	23.4	21.1	15.3	13.9	12.4
87.5°	8.1	7.3	5.8	5.2	4.4
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	14.60	16.18	14.97	16.50	16.81	15.56	17.14	15.93	17.46	17.77
	3H	16.02	17.44	16.40	17.77	18.13	16.75	18.17	17.13	18.50	18.86
	4H	16.42	17.75	16.82	18.10	18.47	16.97	18.30	17.37	18.65	19.02
	6H	16.59	17.82	17.00	18.19	18.58	16.99	18.22	17.40	18.58	18.97
	8H	16.60	17.78	17.03	18.16	18.57	16.96	18.13	17.39	18.52	18.92
	12H	16.59	17.72	17.02	18.10	18.53	16.94	18.06	17.37	18.44	18.87
4H	2H	15.26	16.59	15.66	16.94	17.32	16.04	17.37	16.44	17.72	18.09
	3H	16.84	17.94	17.25	18.34	18.74	17.39	18.49	17.80	18.89	19.29
	4H	17.32	18.31	17.75	18.72	19.16	17.65	18.65	18.09	19.06	19.50
	6H	17.56	18.42	18.01	18.86	19.32	17.71	18.57	18.16	19.01	19.47
	8H	17.58	18.38	18.04	18.83	19.29	17.68	18.48	18.14	18.93	19.39
	12H	17.58	18.29	18.06	18.77	19.24	17.66	18.38	18.14	18.85	19.33
8H	4H	17.45	18.26	17.91	18.70	19.17	17.77	18.57	18.23	19.02	19.48
	6H	17.73	18.39	18.22	18.88	19.36	17.83	18.49	18.32	18.98	19.46
	8H	17.77	18.36	18.28	18.87	19.35	17.80	18.40	18.32	18.90	19.39
	12H	17.78	18.30	18.29	18.79	19.36	17.79	18.31	18.30	18.80	19.37
12H	4H	17.43	18.15	17.92	18.63	19.10	17.76	18.48	18.24	18.95	19.42
	6H	17.70	18.29	18.21	18.80	19.29	17.80	18.40	18.32	18.91	19.39
	8H	17.76	18.28	18.27	18.77	19.34	17.80	18.33	18.31	18.82	19.38