

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: P1499291

Luminaire Tested: MAE-G-4-120-2LO-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499291
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-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

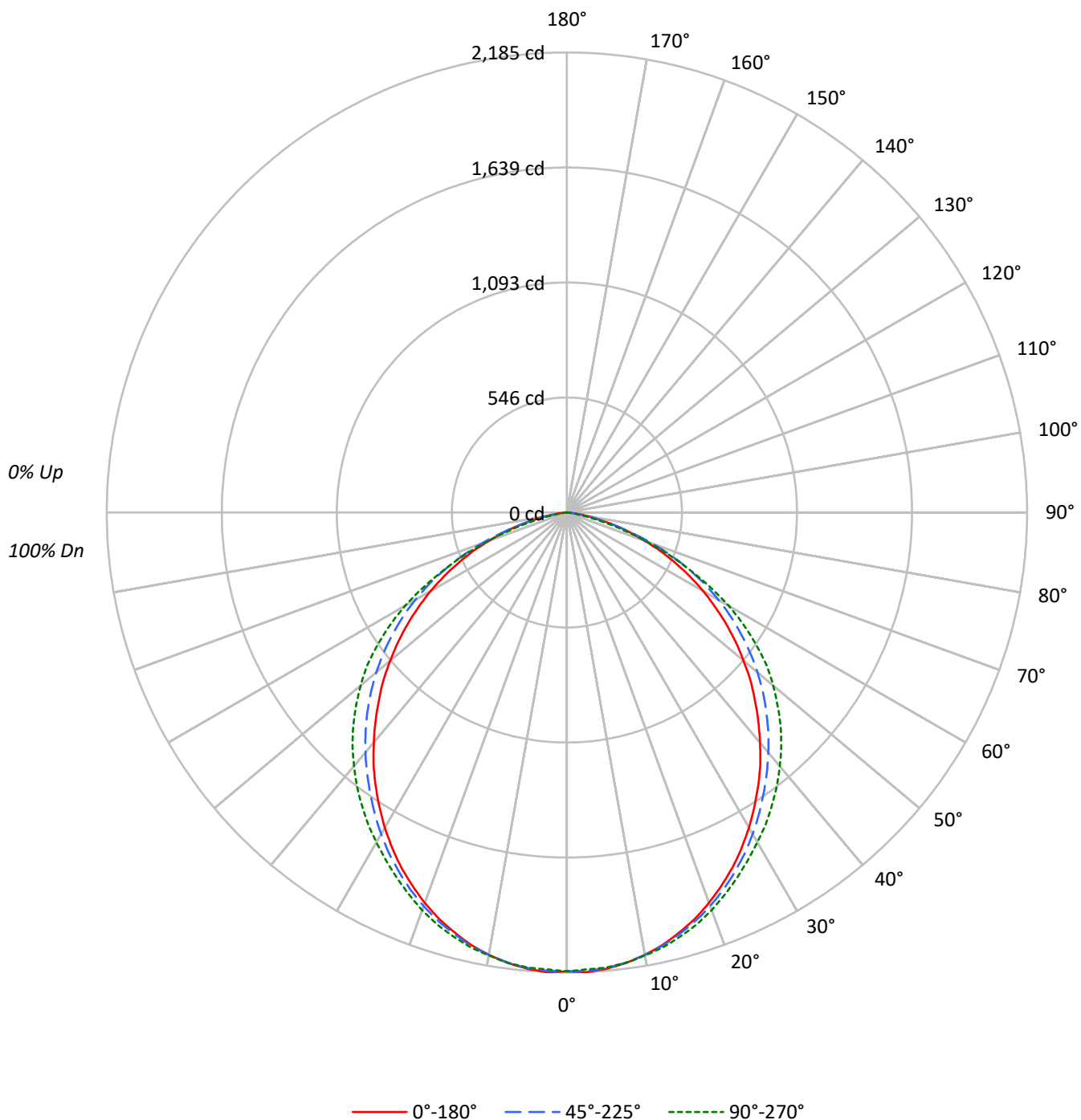
Lumens per Lamp: N/A
Luminaire Lumens: 5501.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2932	2932	2932
5°	2937	2932	2929
10°	2915	2915	2919
15°	2876	2886	2904
20°	2825	2848	2878
25°	2762	2798	2840
30°	2686	2741	2810
35°	2601	2674	2788
40°	2505	2614	2762
45°	2402	2549	2731
50°	2291	2472	2677
55°	2165	2373	2576
60°	2011	2240	2392
65°	1814	2035	2047
70°	1549	1694	1583
75°	1216	1227	989
80°	791	631	379
85°	366	239	195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2731 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	3.7
10°-20°	583.8	10.6
20°-30°	867.2	15.8
30°-40°	1021.5	18.6
40°-50°	1034.8	18.8
50°-60°	900.7	16.4
60°-70°	613.8	11.2
70°-80°	245.4	4.5
80°-90°	28.1	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°	1656.8	30.1
0°-40°	2678.2	48.7
0°-60°	4613.8	83.9
0°-90°	5501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2175	2162	2171	2168	2169	206
15°	2065	2056	2072	2079	2084	582
25°	1860	1861	1885	1900	1913	856
35°	1584	1591	1628	1671	1698	990
45°	1262	1278	1339	1402	1436	974
55°	923	943	1012	1075	1098	824
65°	570	596	639	640	643	565
75°	234	248	236	203	190	252
85°	24	21	16	14	13	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2179.2	2179.2	2179.2	2179.2	2179.2
2.5°	2185.3	2171.2	2179.2	2177.7	2171.9
5°	2174.8	2162.2	2171.2	2168.3	2168.9
7.5°	2157.8	2146.0	2155.7	2154.8	2157.1
10°	2133.4	2121.6	2133.4	2134.1	2136.4
12.5°	2103.0	2092.7	2106.8	2109.7	2114.9
15°	2064.6	2055.7	2071.9	2079.4	2084.5
17.5°	2023.2	2017.3	2033.5	2043.1	2051.3
20°	1972.8	1969.9	1989.2	1998.7	2009.8
22.5°	1918.0	1916.5	1939.6	1951.4	1962.5
25°	1860.3	1861.1	1884.8	1900.4	1912.9
27.5°	1796.7	1798.1	1827.1	1845.6	1861.1
30°	1728.6	1732.4	1764.1	1789.3	1808.6
32.5°	1656.8	1663.5	1697.5	1732.4	1756.8
35°	1583.5	1591.1	1628.0	1670.9	1697.5
37.5°	1508.1	1516.3	1559.2	1609.6	1637.7
40°	1426.0	1438.5	1488.2	1543.6	1572.4
42.5°	1345.2	1359.3	1414.9	1475.6	1506.7
45°	1262.5	1278.0	1339.4	1402.3	1435.5
47.5°	1182.5	1195.8	1261.7	1327.6	1357.2
50°	1094.5	1112.2	1181.0	1246.9	1278.7
52.5°	1010.1	1027.1	1097.5	1164.7	1197.4
55°	922.8	942.7	1011.6	1075.2	1098.1
57.5°	834.8	857.7	924.3	976.8	996.7
60°	747.4	770.3	832.5	873.9	888.8
62.5°	659.3	683.0	737.8	763.0	765.9
65°	569.8	596.5	639.3	640.2	643.1
67.5°	484.8	506.9	537.9	529.1	524.7
70°	393.7	418.0	430.6	413.0	402.5
72.5°	313.0	330.7	328.6	302.6	290.1
75°	233.9	248.0	236.0	202.8	190.2
77.5°	162.1	173.9	150.1	119.1	106.6
80°	102.1	107.3	81.5	57.7	48.9
82.5°	54.8	54.0	34.8	28.8	26.7
85°	23.7	21.4	15.5	14.1	12.6
87.5°	8.2	7.4	5.9	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	14.65	16.24	15.02	16.55	16.86	15.61	17.20	15.98	17.51	17.82
	3H	16.07	17.49	16.45	17.82	18.18	16.80	18.22	17.18	18.55	18.91
	4H	16.47	17.80	16.87	18.15	18.53	17.02	18.35	17.42	18.70	19.08
	6H	16.64	17.87	17.05	18.24	18.63	17.04	18.27	17.45	18.63	19.02
	8H	16.66	17.83	17.08	18.22	18.62	17.01	18.19	17.44	18.58	18.98
	12H	16.65	17.77	17.08	18.15	18.58	16.99	18.11	17.42	18.49	18.92
4H	2H	15.31	16.65	15.71	17.00	17.37	16.09	17.42	16.49	17.77	18.15
	3H	16.89	18.00	17.30	18.40	18.80	17.44	18.54	17.85	18.94	19.34
	4H	17.37	18.36	17.80	18.77	19.21	17.71	18.70	18.14	19.11	19.55
	6H	17.61	18.47	18.06	18.91	19.37	17.76	18.62	18.21	19.06	19.52
	8H	17.63	18.43	18.09	18.88	19.34	17.73	18.54	18.20	18.98	19.45
	12H	17.63	18.35	18.11	18.82	19.29	17.71	18.43	18.19	18.91	19.38
8H	4H	17.50	18.31	17.97	18.75	19.22	17.82	18.62	18.28	19.07	19.53
	6H	17.78	18.44	18.28	18.93	19.41	17.88	18.54	18.38	19.03	19.51
	8H	17.82	18.41	18.33	18.92	19.41	17.86	18.45	18.37	18.96	19.44
	12H	17.83	18.35	18.34	18.84	19.41	17.84	18.36	18.35	18.85	19.42
12H	4H	17.49	18.20	17.97	18.68	19.15	17.81	18.53	18.29	19.00	19.48
	6H	17.75	18.34	18.26	18.85	19.34	17.86	18.45	18.37	18.96	19.45
	8H	17.81	18.33	18.32	18.83	19.39	17.86	18.38	18.37	18.87	19.43