

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: P1499285

Luminaire Tested: MAE-G-4-120-2LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499285
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-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

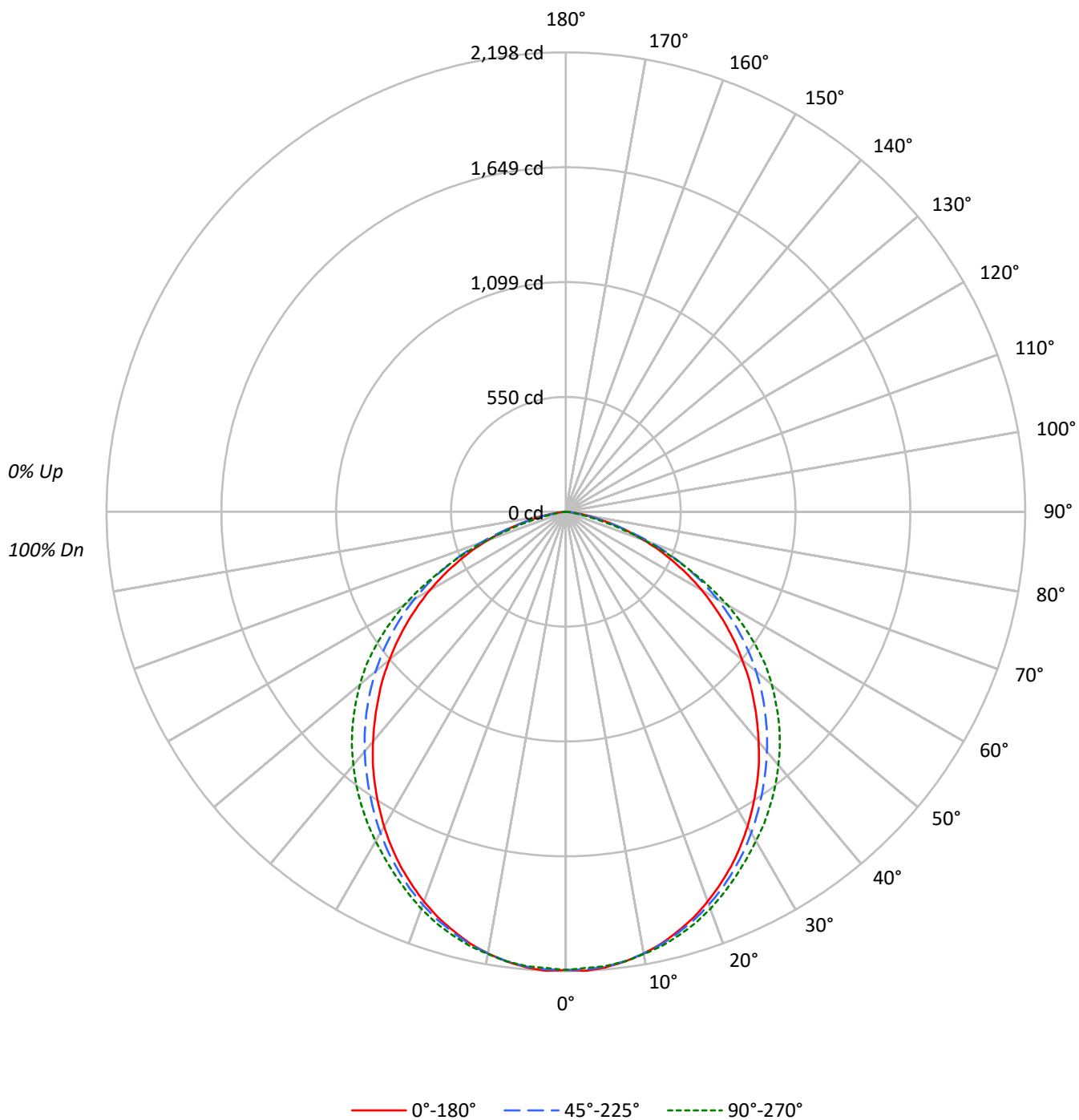
Lumens per Lamp: N/A
Luminaire Lumens: 5534.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2950	2950	2950
5°	2955	2950	2947
10°	2932	2932	2936
15°	2893	2903	2921
20°	2842	2865	2895
25°	2778	2815	2857
30°	2702	2757	2827
35°	2617	2690	2805
40°	2520	2630	2778
45°	2417	2564	2748
50°	2305	2487	2692
55°	2178	2387	2591
60°	2023	2254	2406
65°	1825	2048	2060
70°	1558	1704	1593
75°	1223	1234	995
80°	796	635	381
85°	369	241	196

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2748 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	3.7
10°-20°	587.3	10.6
20°-30°	872.4	15.8
30°-40°	1027.6	18.6
40°-50°	1041.0	18.8
50°-60°	906.1	16.4
60°-70°	617.4	11.2
70°-80°	246.8	4.5
80°-90°	28.2	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°	1666.7	30.1
0°-40°	2694.3	48.7
0°-60°	4641.5	83.9
0°-90°	5534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2192	2192	2192	2192	2192	
5°	2188	2175	2184	2181	2182	207
15°	2077	2068	2084	2092	2097	585
25°	1871	1872	1896	1912	1924	861
35°	1593	1601	1638	1681	1708	996
45°	1270	1286	1347	1411	1444	980
55°	928	948	1018	1082	1105	829
65°	573	600	643	644	647	568
75°	235	249	237	204	191	253
85°	24	22	16	14	13	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2192.3	2192.3	2192.3	2192.3	2192.3
2.5°	2198.4	2184.2	2192.3	2190.8	2184.9
5°	2187.8	2175.2	2184.2	2181.3	2181.9
7.5°	2170.7	2158.9	2168.6	2167.8	2170.1
10°	2146.2	2134.4	2146.2	2146.9	2149.2
12.5°	2115.6	2105.2	2119.4	2122.4	2127.6
15°	2076.9	2068.1	2084.4	2091.9	2097.0
17.5°	2035.3	2029.4	2045.7	2055.4	2063.6
20°	1984.6	1981.7	2001.1	2010.6	2021.8
22.5°	1929.5	1928.0	1951.2	1963.1	1974.3
25°	1871.4	1872.3	1896.1	1911.8	1924.4
27.5°	1807.4	1808.9	1838.0	1856.6	1872.3
30°	1739.0	1742.8	1774.7	1800.0	1819.4
32.5°	1666.8	1673.5	1707.7	1742.8	1767.3
35°	1593.0	1600.6	1637.8	1680.9	1707.7
37.5°	1517.2	1525.4	1568.5	1619.2	1647.5
40°	1434.6	1447.1	1497.1	1552.9	1581.9
42.5°	1353.3	1367.5	1423.4	1484.5	1515.7
45°	1270.1	1285.7	1347.4	1410.7	1444.1
47.5°	1189.6	1202.9	1269.2	1335.5	1365.3
50°	1101.1	1118.9	1188.1	1254.4	1286.3
52.5°	1016.2	1033.3	1104.0	1171.7	1204.6
55°	928.3	948.4	1017.7	1081.7	1104.7
57.5°	839.8	862.8	929.8	982.6	1002.7
60°	751.9	775.0	837.5	879.1	894.1
62.5°	663.2	687.1	742.2	767.6	770.5
65°	573.2	600.1	643.2	644.0	647.0
67.5°	487.7	509.9	541.2	532.3	527.8
70°	396.0	420.6	433.2	415.5	404.9
72.5°	314.9	332.7	330.6	304.4	291.9
75°	235.3	249.4	237.4	204.0	191.4
77.5°	163.1	174.9	151.0	119.8	107.3
80°	102.7	107.9	81.9	58.1	49.2
82.5°	55.1	54.3	35.0	29.0	26.8
85°	23.9	21.6	15.6	14.2	12.7
87.5°	8.2	7.4	5.9	5.3	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	14.67	16.26	15.04	16.57	16.88	15.64	17.22	16.00	17.53	17.85
	3H	16.10	17.52	16.47	17.84	18.20	16.82	18.25	17.20	18.57	18.93
	4H	16.49	17.82	16.89	18.17	18.55	17.04	18.37	17.44	18.72	19.10
	6H	16.66	17.89	17.07	18.26	18.65	17.06	18.29	17.47	18.65	19.05
	8H	16.68	17.85	17.10	18.24	18.64	17.03	18.21	17.46	18.60	19.00
	12H	16.67	17.79	17.10	18.17	18.60	17.01	18.13	17.44	18.51	18.94
4H	2H	15.34	16.67	15.73	17.02	17.39	16.11	17.44	16.51	17.79	18.17
	3H	16.91	18.02	17.32	18.42	18.82	17.46	18.56	17.87	18.96	19.36
	4H	17.39	18.38	17.82	18.80	19.23	17.73	18.72	18.16	19.13	19.57
	6H	17.63	18.49	18.09	18.93	19.39	17.78	18.64	18.23	19.08	19.54
	8H	17.65	18.45	18.11	18.90	19.36	17.75	18.56	18.22	19.00	19.47
	12H	17.65	18.37	18.13	18.85	19.32	17.73	18.45	18.21	18.93	19.40
8H	4H	17.53	18.33	17.99	18.77	19.24	17.84	18.64	18.30	19.09	19.55
	6H	17.80	18.46	18.30	18.95	19.43	17.90	18.56	18.40	19.05	19.53
	8H	17.84	18.43	18.35	18.94	19.43	17.88	18.47	18.39	18.98	19.47
	12H	17.85	18.37	18.36	18.86	19.43	17.86	18.38	18.37	18.87	19.44
12H	4H	17.51	18.22	17.99	18.70	19.17	17.83	18.55	18.31	19.03	19.50
	6H	17.77	18.36	18.28	18.87	19.36	17.88	18.47	18.39	18.98	19.47
	8H	17.83	18.35	18.34	18.85	19.41	17.88	18.40	18.39	18.89	19.45