

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: P1498910

Luminaire Tested: MAE-G-4-120-1HI-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

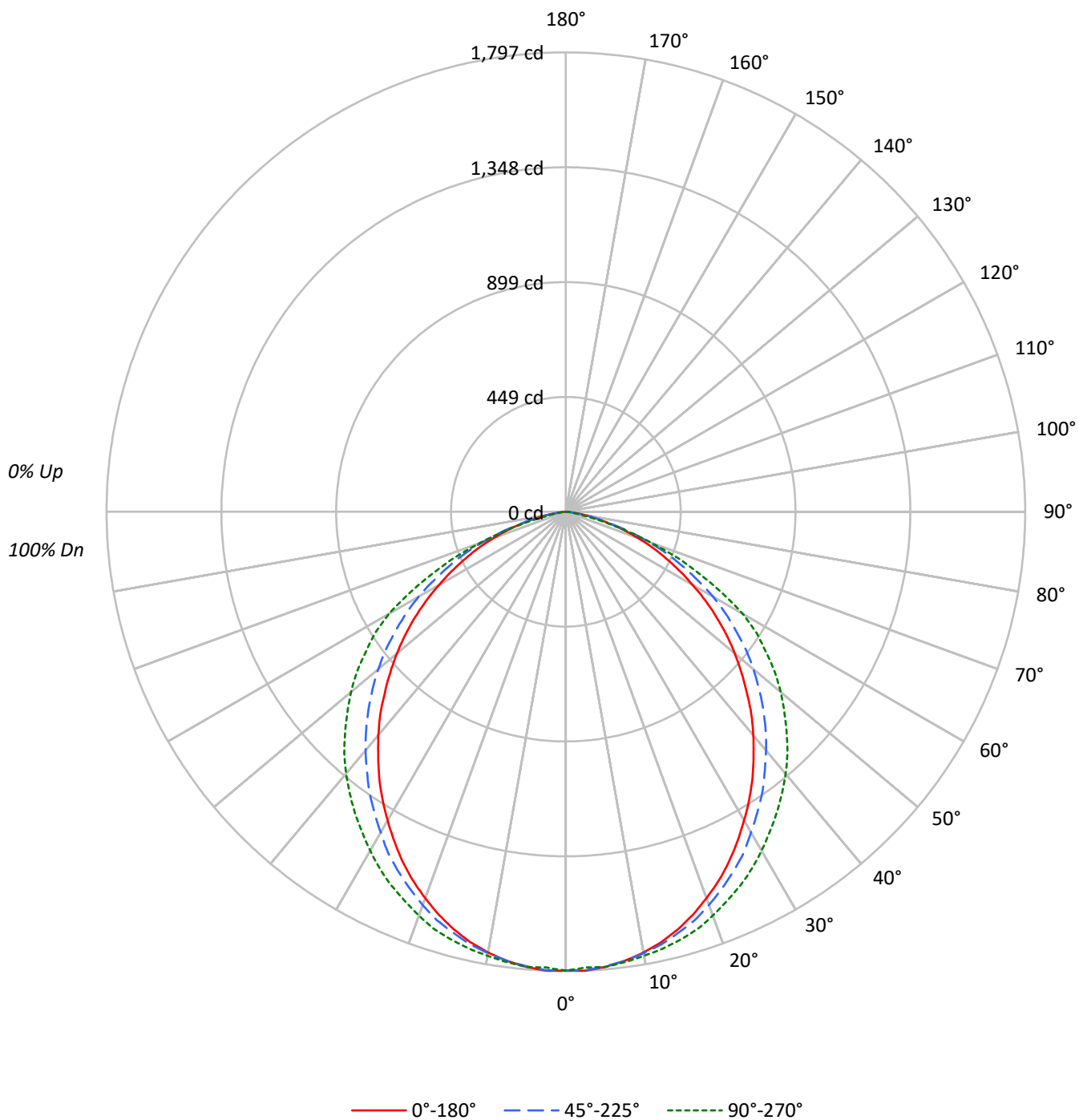
Lumens per Lamp: N/A
Luminaire Lumens: 4518.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.3
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	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		55	48	43		53
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2415	2415	2415
5°	2413	2410	2413
10°	2392	2395	2410
15°	2356	2374	2413
20°	2303	2344	2407
25°	2242	2304	2396
30°	2166	2251	2379
35°	2091	2201	2362
40°	2005	2141	2349
45°	1906	2078	2324
50°	1805	2005	2297
55°	1690	1908	2241
60°	1542	1793	2154
65°	1381	1603	1850
70°	1178	1351	1412
75°	913	980	792
80°	600	520	280
85°	320	239	159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2324 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	3.8
10°-20°	481.6	10.7
20°-30°	716.1	15.9
30°-40°	842.0	18.6
40°-50°	849.8	18.8
50°-60°	737.8	16.3
60°-70°	502.2	11.1
70°-80°	195.6	4.3
80°-90°	23.4	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°	1367.2	30.3
0°-40°	2209.2	48.9
0°-60°	3796.8	84.0
0°-90°	4518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1795	1795	1795	1795	1795	
5°	1787	1784	1784	1784	1787	169
15°	1691	1694	1704	1722	1733	476
25°	1510	1518	1552	1591	1614	695
35°	1273	1288	1340	1402	1438	795
45°	1002	1028	1092	1178	1221	773
55°	720	744	813	906	955	643
65°	434	454	504	558	581	431
75°	176	186	188	170	152	191
85°	21	21	16	13	10	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1794.6	1794.6	1794.6	1794.6	1794.6
2.5°	1797.2	1797.2	1794.6	1786.8	1784.3
5°	1786.8	1784.3	1784.3	1784.3	1786.8
7.5°	1771.3	1771.3	1771.3	1773.9	1776.5
10°	1750.7	1750.7	1753.3	1758.4	1763.6
12.5°	1724.9	1727.4	1732.6	1742.9	1750.7
15°	1691.3	1693.9	1704.2	1722.3	1732.6
17.5°	1652.6	1660.3	1675.8	1696.5	1712.0
20°	1608.7	1616.4	1637.1	1662.9	1681.0
22.5°	1562.2	1569.9	1595.8	1626.7	1647.4
25°	1510.5	1518.3	1551.9	1590.6	1613.8
27.5°	1453.7	1464.1	1505.4	1546.7	1575.1
30°	1394.4	1407.3	1448.6	1500.2	1531.2
32.5°	1335.0	1350.5	1394.4	1453.7	1484.7
35°	1273.0	1288.5	1340.1	1402.1	1438.2
37.5°	1205.9	1223.9	1278.2	1353.0	1389.2
40°	1141.3	1159.4	1218.8	1298.8	1337.5
42.5°	1074.2	1094.8	1156.8	1239.4	1283.3
45°	1001.9	1027.7	1092.2	1177.5	1221.3
47.5°	932.2	955.4	1025.1	1112.9	1159.4
50°	862.4	888.3	958.0	1048.3	1097.4
52.5°	792.7	816.0	888.3	978.6	1030.3
55°	720.4	743.7	813.4	906.3	955.4
57.5°	648.1	676.5	741.1	831.4	885.7
60°	573.2	599.1	666.2	756.6	800.5
62.5°	503.5	526.8	583.6	668.8	689.4
65°	433.8	454.5	503.5	557.7	581.0
67.5°	369.2	384.7	428.6	464.8	475.1
70°	299.5	315.0	343.4	364.1	358.9
72.5°	237.6	247.9	266.0	263.4	250.5
75°	175.6	185.9	188.5	170.4	152.3
77.5°	123.9	129.1	121.4	95.5	77.5
80°	77.5	80.0	67.1	41.3	36.1
82.5°	43.9	43.9	31.0	25.8	20.7
85°	20.7	20.7	15.5	12.9	10.3
87.5°	7.7	7.7	5.2	5.2	5.2
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	13.67	15.25	14.03	15.56	15.87	15.25	16.83	15.61	17.14	17.45
	3H	15.00	16.42	15.38	16.75	17.11	16.51	17.93	16.89	18.26	18.62
	4H	15.37	16.70	15.77	17.05	17.42	16.71	18.04	17.11	18.39	18.77
	6H	15.53	16.76	15.95	17.13	17.52	16.71	17.94	17.12	18.30	18.69
	8H	15.55	16.72	15.97	17.11	17.51	16.68	17.85	17.11	18.24	18.64
	12H	15.54	16.66	15.97	17.04	17.47	16.66	17.78	17.09	18.16	18.59
4H	2H	14.33	15.66	14.73	16.01	16.39	15.62	16.95	16.02	17.30	17.68
	3H	15.83	16.93	16.24	17.33	17.73	17.06	18.16	17.47	18.56	18.96
	4H	16.27	17.26	16.70	17.68	18.11	17.31	18.30	17.75	18.72	19.16
	6H	16.50	17.35	16.95	17.80	18.26	17.34	18.20	17.80	18.64	19.10
	8H	16.52	17.32	16.98	17.77	18.23	17.31	18.12	17.78	18.56	19.03
	12H	16.52	17.24	17.01	17.72	18.19	17.29	18.01	17.77	18.49	18.96
8H	4H	16.43	17.23	16.89	17.67	18.14	17.40	18.20	17.86	18.64	19.11
	6H	16.69	17.35	17.18	17.84	18.31	17.43	18.09	17.93	18.58	19.06
	8H	16.73	17.32	17.24	17.83	18.32	17.41	17.99	17.92	18.50	18.99
	12H	16.75	17.27	17.26	17.76	18.33	17.39	17.91	17.90	18.40	18.96
12H	4H	16.41	17.13	16.89	17.60	18.07	17.38	18.10	17.87	18.58	19.05
	6H	16.66	17.25	17.17	17.76	18.25	17.40	17.99	17.92	18.50	18.99
	8H	16.73	17.25	17.24	17.74	18.30	17.40	17.92	17.91	18.41	18.98

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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