

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: P1498334

Luminaire Tested: MAE-G-2-120-2HI-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498334
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-2-120-2HI-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

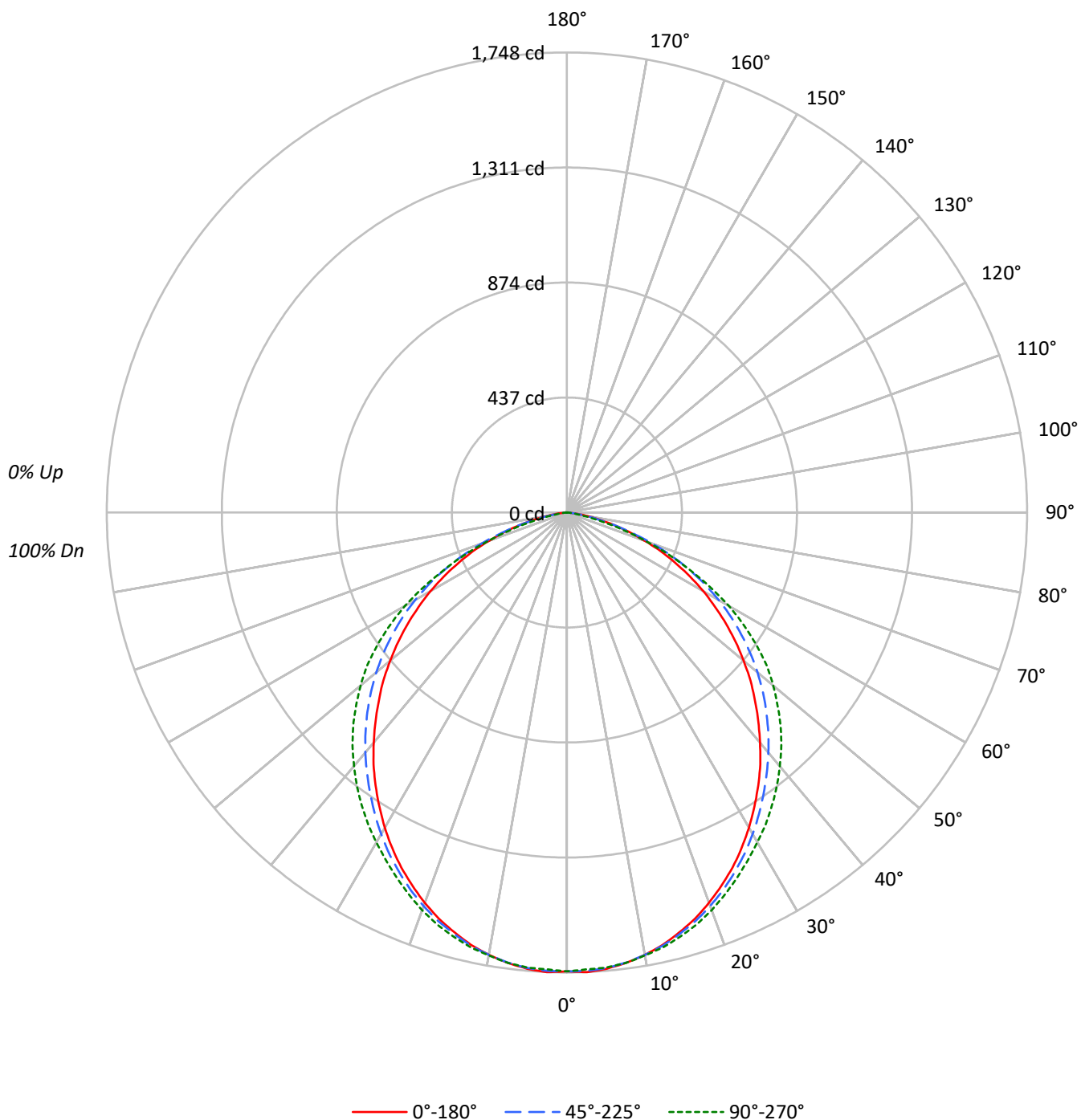
Lumens per Lamp: N/A
Luminaire Lumens: 4401.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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°	4692	4692	4692
5°	4700	4692	4687
10°	4664	4664	4670
15°	4601	4618	4646
20°	4520	4557	4605
25°	4419	4477	4544
30°	4297	4386	4496
35°	4162	4279	4461
40°	4008	4182	4419
45°	3844	4078	4371
50°	3666	3956	4283
55°	3464	3797	4122
60°	3218	3584	3827
65°	2903	3257	3276
70°	2478	2710	2533
75°	1945	1963	1582
80°	1266	1010	606
85°	587	383	312

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4371 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	3.7
10°-20°	467.0	10.6
20°-30°	693.8	15.8
30°-40°	817.2	18.6
40°-50°	827.9	18.8
50°-60°	720.6	16.4
60°-70°	491.0	11.2
70°-80°	196.3	4.5
80°-90°	22.5	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°	1325.5	30.1
0°-40°	2142.7	48.7
0°-60°	3691.2	83.9
0°-90°	4401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1740	1730	1737	1735	1735	165
15°	1652	1645	1658	1664	1668	466
25°	1488	1489	1508	1520	1530	685
35°	1267	1273	1302	1337	1358	792
45°	1010	1022	1072	1122	1148	780
55°	738	754	809	860	878	660
65°	456	477	512	512	514	452
75°	187	198	189	162	152	202
85°	19	17	12	11	10	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1748.3	1737.0	1743.5	1742.3	1737.6
5°	1739.9	1729.8	1737.0	1734.7	1735.2
7.5°	1726.3	1716.9	1724.6	1724.0	1725.8
10°	1706.8	1697.4	1706.8	1707.3	1709.2
12.5°	1682.5	1674.2	1685.5	1687.8	1692.0
15°	1651.7	1644.7	1657.6	1663.6	1667.7
17.5°	1618.6	1613.9	1626.9	1634.6	1641.1
20°	1578.3	1576.0	1591.4	1599.0	1607.9
22.5°	1534.5	1533.3	1551.8	1561.2	1570.1
25°	1488.3	1488.9	1507.9	1520.4	1530.4
27.5°	1437.4	1438.6	1461.7	1476.5	1488.9
30°	1383.0	1386.0	1411.4	1431.5	1446.9
32.5°	1325.5	1330.9	1358.1	1386.0	1405.5
35°	1266.9	1272.9	1302.5	1336.8	1358.1
37.5°	1206.6	1213.1	1247.4	1287.7	1310.2
40°	1140.9	1150.8	1190.6	1235.0	1258.0
42.5°	1076.2	1087.5	1132.0	1180.5	1205.4
45°	1010.0	1022.5	1071.5	1121.9	1148.5
47.5°	946.0	956.6	1009.4	1062.1	1085.8
50°	875.7	889.8	944.9	997.6	1023.0
52.5°	808.1	821.7	878.0	931.8	958.0
55°	738.3	754.2	809.3	860.2	878.5
57.5°	667.9	686.2	739.4	781.4	797.4
60°	598.0	616.3	666.0	699.1	711.0
62.5°	527.5	546.4	590.3	610.4	612.8
65°	455.9	477.2	511.5	512.1	514.5
67.5°	387.8	405.5	430.4	423.3	419.8
70°	315.0	334.5	344.5	330.4	322.0
72.5°	250.4	264.6	262.9	242.1	232.1
75°	187.1	198.4	188.8	162.3	152.2
77.5°	129.7	139.1	120.1	95.3	85.3
80°	81.7	85.8	65.2	46.2	39.1
82.5°	43.8	43.2	27.9	23.0	21.3
85°	19.0	17.1	12.4	11.3	10.1
87.5°	6.5	5.9	4.7	4.2	3.5
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	16.29	17.87	16.65	18.18	18.50	17.25	18.83	17.61	19.14	19.46
	3H	17.71	19.13	18.08	19.45	19.82	18.44	19.86	18.81	20.18	20.55
	4H	18.10	19.43	18.50	19.78	20.16	18.65	19.98	19.05	20.33	20.71
	6H	18.28	19.51	18.69	19.87	20.26	18.67	19.90	19.08	20.27	20.66
	8H	18.29	19.46	18.71	19.85	20.25	18.65	19.82	19.07	20.21	20.61
	12H	18.28	19.40	18.71	19.78	20.21	18.62	19.74	19.05	20.13	20.55
4H	2H	16.95	18.28	17.35	18.63	19.01	17.72	19.05	18.12	19.40	19.78
	3H	18.53	19.63	18.94	20.03	20.43	19.07	20.18	19.48	20.57	20.97
	4H	19.00	19.99	19.43	20.41	20.85	19.34	20.33	19.77	20.75	21.18
	6H	19.24	20.10	19.70	20.54	21.00	19.39	20.25	19.85	20.69	21.15
	8H	19.26	20.07	19.73	20.51	20.98	19.37	20.17	19.83	20.61	21.08
	12H	19.26	19.98	19.74	20.46	20.93	19.35	20.06	19.83	20.54	21.01
8H	4H	19.14	19.94	19.60	20.38	20.85	19.45	20.26	19.92	20.70	21.17
	6H	19.41	20.07	19.91	20.56	21.04	19.51	20.17	20.01	20.66	21.14
	8H	19.45	20.04	19.96	20.55	21.04	19.49	20.08	20.00	20.59	21.08
	12H	19.46	19.99	19.97	20.48	21.04	19.47	20.00	19.98	20.49	21.05
12H	4H	19.12	19.84	19.60	20.31	20.78	19.44	20.16	19.92	20.64	21.11
	6H	19.38	19.98	19.90	20.48	20.97	19.49	20.08	20.00	20.59	21.08
	8H	19.45	19.97	19.96	20.46	21.02	19.49	20.01	20.00	20.50	21.07