

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: P1498478

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498478
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-2-120-2LO-LO-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

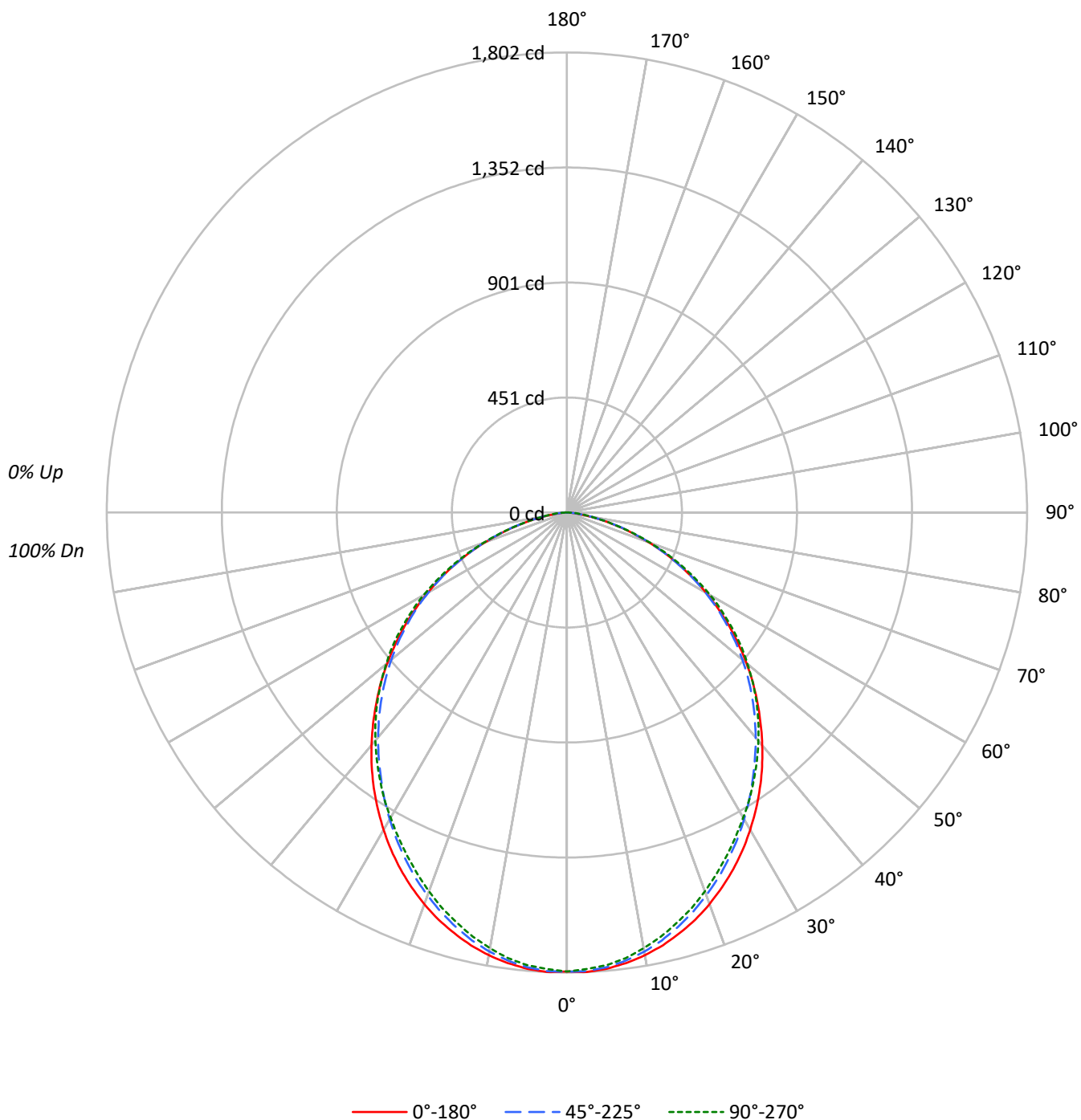
Lumens per Lamp: N/A
Luminaire Lumens: 4374.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 49
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	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	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4839	4839	4839
5°	4846	4830	4808
10°	4812	4772	4735
15°	4752	4682	4635
20°	4675	4570	4523
25°	4577	4446	4400
30°	4460	4311	4290
35°	4329	4171	4194
40°	4180	4039	4097
45°	4018	3904	3995
50°	3842	3758	3867
55°	3639	3584	3707
60°	3395	3369	3496
65°	3088	3083	3172
70°	2666	2694	2736
75°	2125	2187	2167
80°	1440	1525	1536
85°	741	1025	1309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4018 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	3.9
10°-20°	473.4	10.8
20°-30°	692.1	15.8
30°-40°	802.4	18.3
40°-50°	800.8	18.3
50°-60°	689.7	15.8
60°-70°	481.5	11.0
70°-80°	222.9	5.1
80°-90°	42.1	1.0
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°	1334.6	30.5
0°-40°	2137.0	48.9
0°-60°	3627.5	82.9
0°-90°	4374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4374.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1794	1787	1788	1778	1780	170
15°	1706	1694	1680	1663	1664	481
25°	1542	1524	1498	1480	1482	710
35°	1318	1295	1270	1268	1277	824
45°	1056	1035	1026	1039	1050	814
55°	776	760	764	782	790	693
65°	485	477	484	493	498	480
75°	204	202	210	209	208	220
85°	24	27	33	40	42	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1801.7	1795.9	1798.1	1790.1	1789.7
5°	1793.8	1787.4	1788.0	1777.5	1779.9
7.5°	1780.0	1772.5	1770.4	1758.5	1760.7
10°	1760.9	1751.6	1746.4	1731.8	1732.9
12.5°	1736.4	1725.8	1716.8	1699.9	1701.8
15°	1705.9	1694.0	1680.5	1662.8	1663.8
17.5°	1672.3	1659.4	1640.4	1621.5	1624.5
20°	1632.6	1618.3	1595.9	1576.3	1579.5
22.5°	1588.6	1572.4	1549.0	1529.5	1531.1
25°	1541.6	1523.6	1497.5	1479.8	1481.8
27.5°	1490.5	1470.5	1443.8	1427.9	1431.4
30°	1435.5	1414.6	1387.5	1375.6	1380.5
32.5°	1377.8	1356.1	1329.9	1323.4	1330.7
35°	1317.9	1295.0	1269.8	1268.5	1276.7
37.5°	1255.6	1233.1	1210.3	1214.2	1222.7
40°	1189.8	1168.4	1149.9	1157.2	1166.3
42.5°	1123.4	1102.9	1088.6	1099.4	1109.4
45°	1055.7	1035.4	1025.9	1039.2	1049.8
47.5°	988.5	967.9	962.8	978.3	987.9
50°	917.7	899.3	897.6	914.5	923.7
52.5°	846.2	829.2	831.4	849.6	861.0
55°	775.6	759.7	763.9	782.1	790.2
57.5°	703.0	690.4	696.1	712.4	720.4
60°	630.8	619.2	625.9	641.6	649.5
62.5°	557.8	547.5	555.6	568.9	574.1
65°	484.9	477.1	484.2	492.9	498.1
67.5°	413.1	405.7	413.7	422.2	424.1
70°	338.9	334.2	342.4	347.6	347.7
72.5°	270.7	266.1	274.0	276.3	275.0
75°	204.4	202.0	210.3	209.0	208.4
77.5°	144.2	145.2	149.8	148.9	148.7
80°	92.9	96.2	98.4	99.7	99.1
82.5°	52.3	55.3	58.5	65.5	68.3
85°	24.0	27.0	33.2	39.7	42.4
87.5°	8.1	10.5	14.0	15.0	14.3
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	16.40	17.99	16.77	18.30	18.62	16.62	18.20	16.98	18.51	18.83
	3H	17.87	19.29	18.25	19.62	19.98	18.09	19.51	18.46	19.84	20.20
	4H	18.30	19.63	18.69	19.98	20.36	18.51	19.84	18.91	20.19	20.57
	6H	18.50	19.74	18.92	20.11	20.50	18.72	19.95	19.13	20.32	20.71
	8H	18.53	19.71	18.96	20.10	20.50	18.77	19.94	19.19	20.33	20.73
	12H	18.53	19.66	18.96	20.04	20.47	18.79	19.92	19.22	20.30	20.73
4H	2H	16.96	18.30	17.36	18.65	19.02	17.13	18.47	17.53	18.82	19.20
	3H	18.60	19.72	19.01	20.12	20.52	18.79	19.90	19.20	20.30	20.70
	4H	19.12	20.12	19.55	20.53	20.97	19.30	20.30	19.73	20.72	21.16
	6H	19.40	20.27	19.86	20.71	21.17	19.60	20.47	20.05	20.91	21.37
	8H	19.45	20.26	19.91	20.70	21.17	19.67	20.48	20.13	20.92	21.39
	12H	19.46	20.19	19.94	20.66	21.13	19.72	20.45	20.20	20.92	21.39
8H	4H	19.30	20.12	19.77	20.56	21.03	19.47	20.29	19.94	20.73	21.20
	6H	19.65	20.32	20.14	20.81	21.29	19.83	20.50	20.32	20.99	21.46
	8H	19.72	20.32	20.23	20.83	21.31	19.93	20.53	20.44	21.04	21.53
	12H	19.75	20.28	20.26	20.78	21.34	20.03	20.56	20.53	21.05	21.61
12H	4H	19.30	20.03	19.79	20.51	20.98	19.47	20.20	19.95	20.68	21.15
	6H	19.65	20.25	20.16	20.76	21.25	19.82	20.43	20.34	20.93	21.42
	8H	19.75	20.28	20.26	20.78	21.34	19.97	20.50	20.47	20.99	21.55