

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: METALUX

Report Number: P601485

Luminaire Tested: 22CGSB-50-L950

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/24/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CGSB-50-L950  
Description: 2x2 CGSB AT 5000lm 5000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

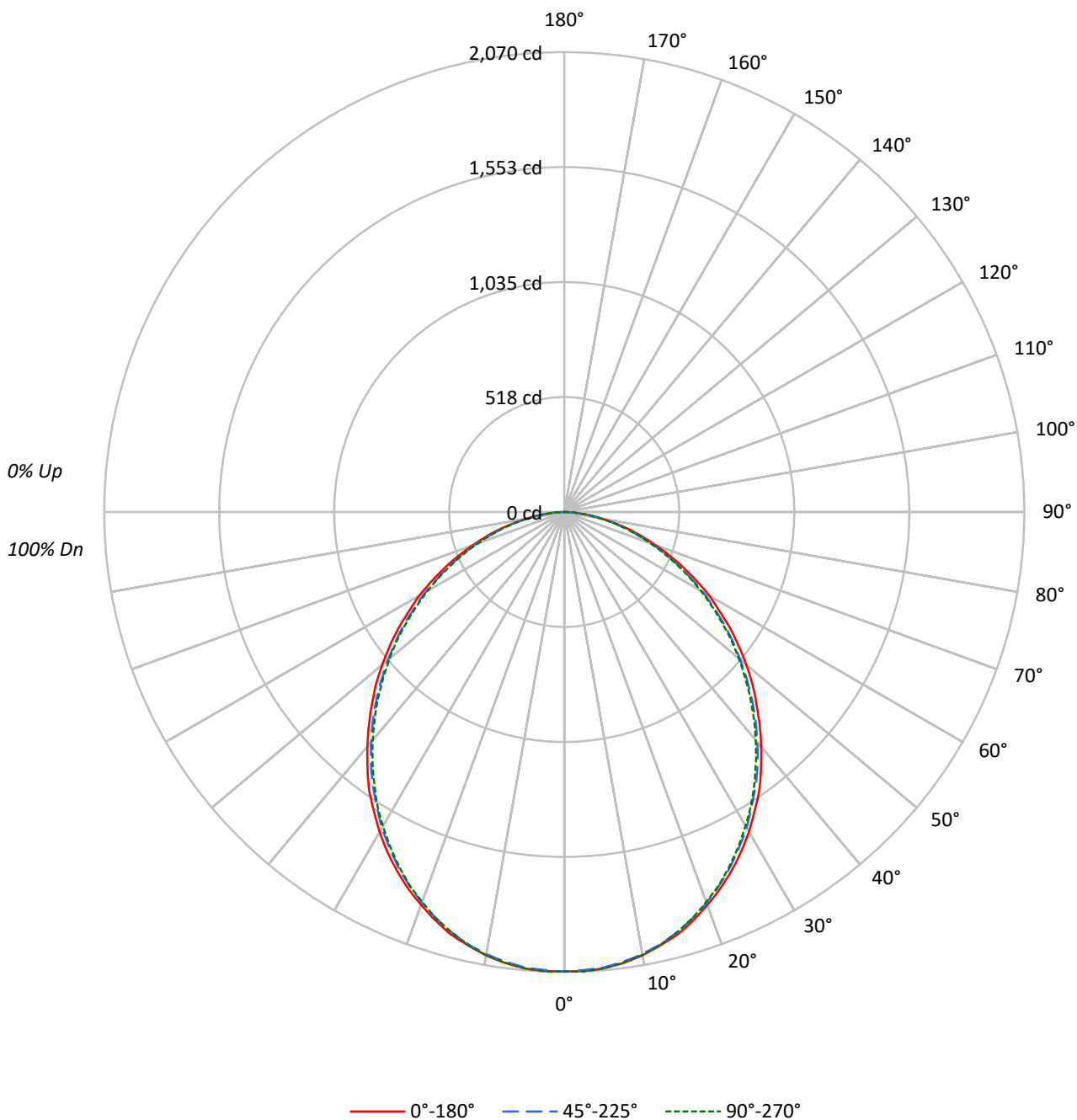
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5167.0 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 42.5  
Input Voltage (V): 120  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5564	5564	5564
5°	5569	5558	5569
10°	5537	5520	5532
15°	5485	5456	5456
20°	5391	5361	5349
25°	5289	5241	5222
30°	5164	5100	5068
35°	5027	4932	4898
40°	4840	4746	4710
45°	4655	4546	4507
50°	4475	4328	4294
55°	4271	4116	4058
60°	4057	3879	3824
65°	3777	3593	3554
70°	3452	3322	3241
75°	3147	2955	2977
80°	2713	2554	2585
85°	2100	2035	1908

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4655 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.3	3.8
10°-20°	552.3	10.7
20°-30°	813.4	15.7
30°-40°	940.9	18.2
40°-50°	925.1	17.9
50°-60°	788.3	15.3
60°-70°	564.9	10.9
70°-80°	306.8	5.9
80°-90°	80.0	1.5
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°	1561.0	30.2
0°-40°	2501.9	48.4
0°-60°	4215.3	81.6
0°-90°	5167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5167.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2068	2068	2068	2068	2068	
5°	2062	2057	2057	2057	2062	196
15°	1969	1961	1959	1956	1959	554
25°	1781	1773	1765	1761	1759	820
35°	1530	1518	1501	1493	1491	954
45°	1223	1215	1194	1184	1184	945
55°	910	894	877	867	865	813
65°	593	581	564	558	558	588
75°	303	292	284	280	286	320
85°	68	68	66	64	62	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2067.7	2067.7	2067.7	2067.7	2067.7
2.5°	2067.7	2065.6	2063.6	2065.6	2069.8
5°	2061.5	2057.4	2057.4	2057.4	2061.5
7.5°	2047.1	2043.0	2040.9	2043.0	2045.1
10°	2026.5	2022.4	2020.3	2022.4	2024.5
12.5°	1997.7	1995.6	1993.6	1993.6	1995.6
15°	1968.9	1960.6	1958.6	1956.5	1958.6
17.5°	1927.7	1925.6	1917.4	1917.4	1917.4
20°	1882.4	1878.2	1872.1	1867.9	1867.9
22.5°	1835.0	1830.9	1820.6	1816.4	1818.5
25°	1781.4	1773.2	1765.0	1760.8	1758.8
27.5°	1723.8	1715.5	1703.2	1697.0	1697.0
30°	1662.0	1655.8	1641.4	1633.2	1631.1
32.5°	1594.0	1589.9	1569.3	1565.2	1565.2
35°	1530.2	1517.8	1501.4	1493.1	1491.1
37.5°	1454.0	1445.7	1429.3	1419.0	1416.9
40°	1377.8	1367.5	1351.0	1342.8	1340.7
42.5°	1301.6	1291.3	1274.8	1264.5	1262.5
45°	1223.3	1215.1	1194.5	1184.2	1184.2
47.5°	1149.2	1132.7	1114.2	1105.9	1103.9
50°	1068.9	1054.4	1033.9	1025.6	1025.6
52.5°	988.5	978.2	955.6	951.5	947.4
55°	910.3	893.8	877.3	867.0	865.0
57.5°	825.8	811.4	795.0	786.7	786.7
60°	753.8	735.2	720.8	710.5	710.5
62.5°	671.4	654.9	640.5	634.3	632.3
65°	593.1	580.8	564.3	558.1	558.1
67.5°	514.9	504.6	490.2	484.0	486.0
70°	438.7	432.5	422.2	414.0	411.9
72.5°	368.6	360.4	350.1	348.0	348.0
75°	302.7	292.4	284.2	280.1	286.3
77.5°	234.8	228.6	224.5	222.4	224.5
80°	175.1	166.8	164.8	166.8	166.8
82.5°	121.5	117.4	115.3	115.3	115.3
85°	68.0	68.0	65.9	63.8	61.8
87.5°	26.8	26.8	28.8	28.8	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)