

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: P601478

Luminaire Tested: 22CGSB-50-L830

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601478  
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-L830  
Description: 2x2 CGSB AT 5000lm 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

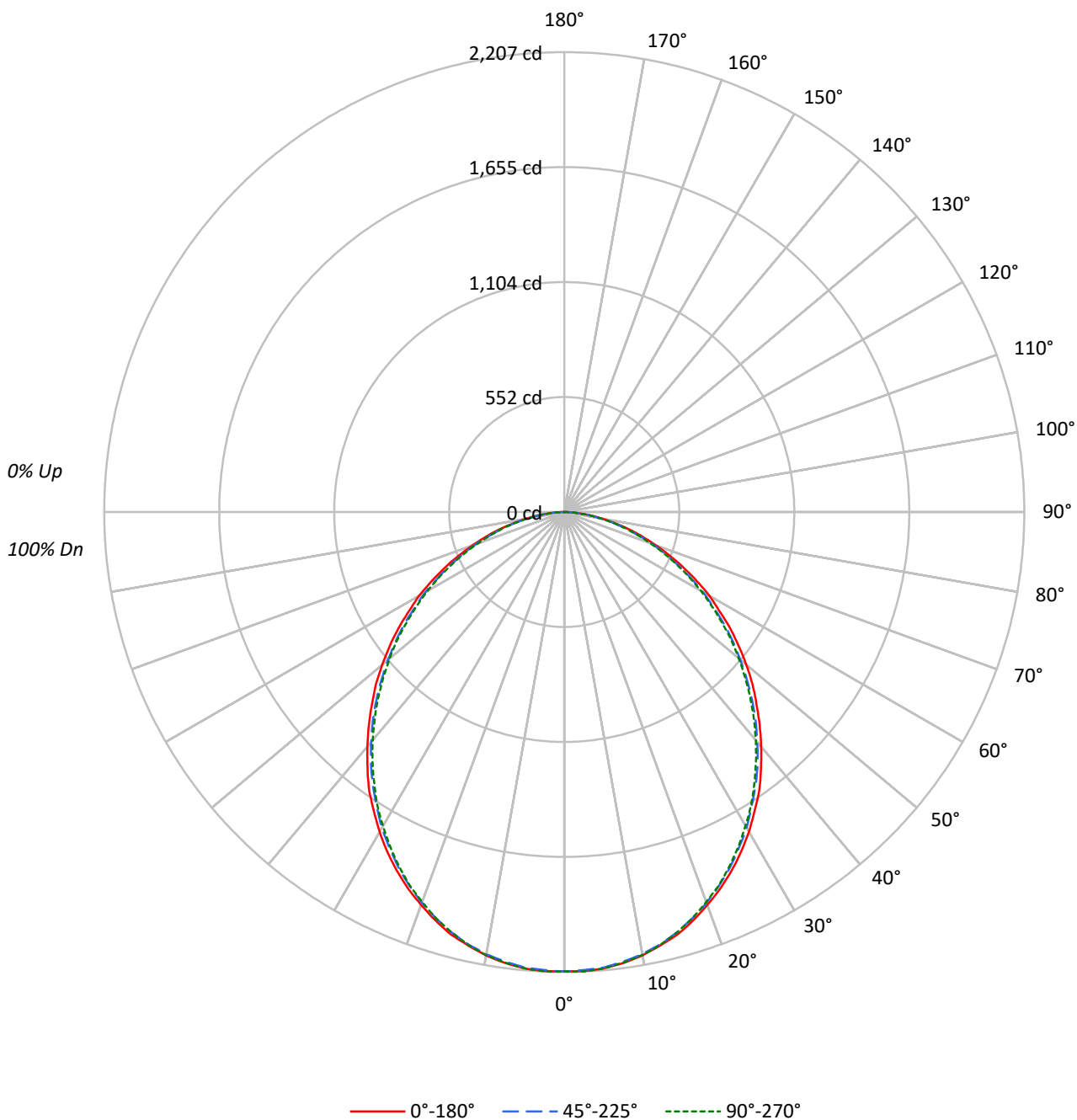
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5509.0 lumens  
Efficiency: N/A  
Efficacy: 129.6 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°	5933	5933	5933
5°	5937	5925	5937
10°	5904	5886	5898
15°	5848	5818	5818
20°	5747	5716	5703
25°	5640	5587	5568
30°	5506	5438	5404
35°	5360	5258	5222
40°	5160	5060	5022
45°	4964	4847	4805
50°	4771	4615	4578
55°	4553	4389	4327
60°	4325	4136	4077
65°	4027	3831	3789
70°	3680	3541	3456
75°	3356	3150	3173
80°	2892	2723	2757
85°	2238	2171	2035

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4964 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.2	3.8
10°-20°	588.8	10.7
20°-30°	867.2	15.7
30°-40°	1003.2	18.2
40°-50°	986.3	17.9
50°-60°	840.5	15.3
60°-70°	602.3	10.9
70°-80°	327.1	5.9
80°-90°	85.3	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°	1664.3	30.2
0°-40°	2667.5	48.4
0°-60°	4494.3	81.6
0°-90°	5509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5509.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2205	2205	2205	2205	2205	
5°	2198	2194	2194	2194	2198	209
15°	2099	2090	2088	2086	2088	591
25°	1899	1891	1882	1877	1875	874
35°	1632	1618	1601	1592	1590	1017
45°	1304	1296	1274	1263	1263	1007
55°	970	953	935	924	922	867
65°	632	619	602	595	595	626
75°	323	312	303	299	305	341
85°	72	72	70	68	66	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2204.6	2204.6	2204.6	2204.6	2204.6
2.5°	2204.6	2202.4	2200.2	2202.4	2206.8
5°	2198.0	2193.6	2193.6	2193.6	2198.0
7.5°	2182.6	2178.2	2176.0	2178.2	2180.4
10°	2160.6	2156.3	2154.1	2156.3	2158.5
12.5°	2129.9	2127.7	2125.5	2125.5	2127.7
15°	2099.2	2090.4	2088.2	2086.0	2088.2
17.5°	2055.3	2053.1	2044.3	2044.3	2044.3
20°	2006.9	2002.6	1996.0	1991.6	1991.6
22.5°	1956.4	1952.0	1941.1	1936.7	1938.9
25°	1899.4	1890.6	1881.8	1877.4	1875.2
27.5°	1837.9	1829.1	1815.9	1809.3	1809.3
30°	1772.0	1765.4	1750.0	1741.3	1739.1
32.5°	1699.5	1695.1	1673.2	1668.8	1668.8
35°	1631.5	1618.3	1600.7	1591.9	1589.7
37.5°	1550.2	1541.4	1523.9	1512.9	1510.7
40°	1469.0	1458.0	1440.4	1431.6	1429.5
42.5°	1387.7	1376.8	1359.2	1348.2	1346.0
45°	1304.3	1295.5	1273.6	1262.6	1262.6
47.5°	1225.2	1207.7	1187.9	1179.1	1176.9
50°	1139.6	1124.2	1102.3	1093.5	1093.5
52.5°	1054.0	1043.0	1018.8	1014.5	1010.1
55°	970.5	953.0	935.4	924.4	922.2
57.5°	880.5	865.1	847.6	838.8	838.8
60°	803.7	783.9	768.5	757.5	757.5
62.5°	715.8	698.3	682.9	676.3	674.1
65°	632.4	619.2	601.6	595.1	595.1
67.5°	548.9	538.0	522.6	516.0	518.2
70°	467.7	461.1	450.1	441.4	439.2
72.5°	393.0	384.3	373.3	371.1	371.1
75°	322.8	311.8	303.0	298.6	305.2
77.5°	250.3	243.7	239.3	237.1	239.3
80°	186.6	177.9	175.7	177.9	177.9
82.5°	129.6	125.2	123.0	123.0	123.0
85°	72.5	72.5	70.3	68.1	65.9
87.5°	28.5	28.5	30.7	30.7	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)