

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: P601489

Luminaire Tested: 22CGSB-55-L850

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601489  
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-55-L850  
Description: 2x2 CGSB AT 5500lm 5000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

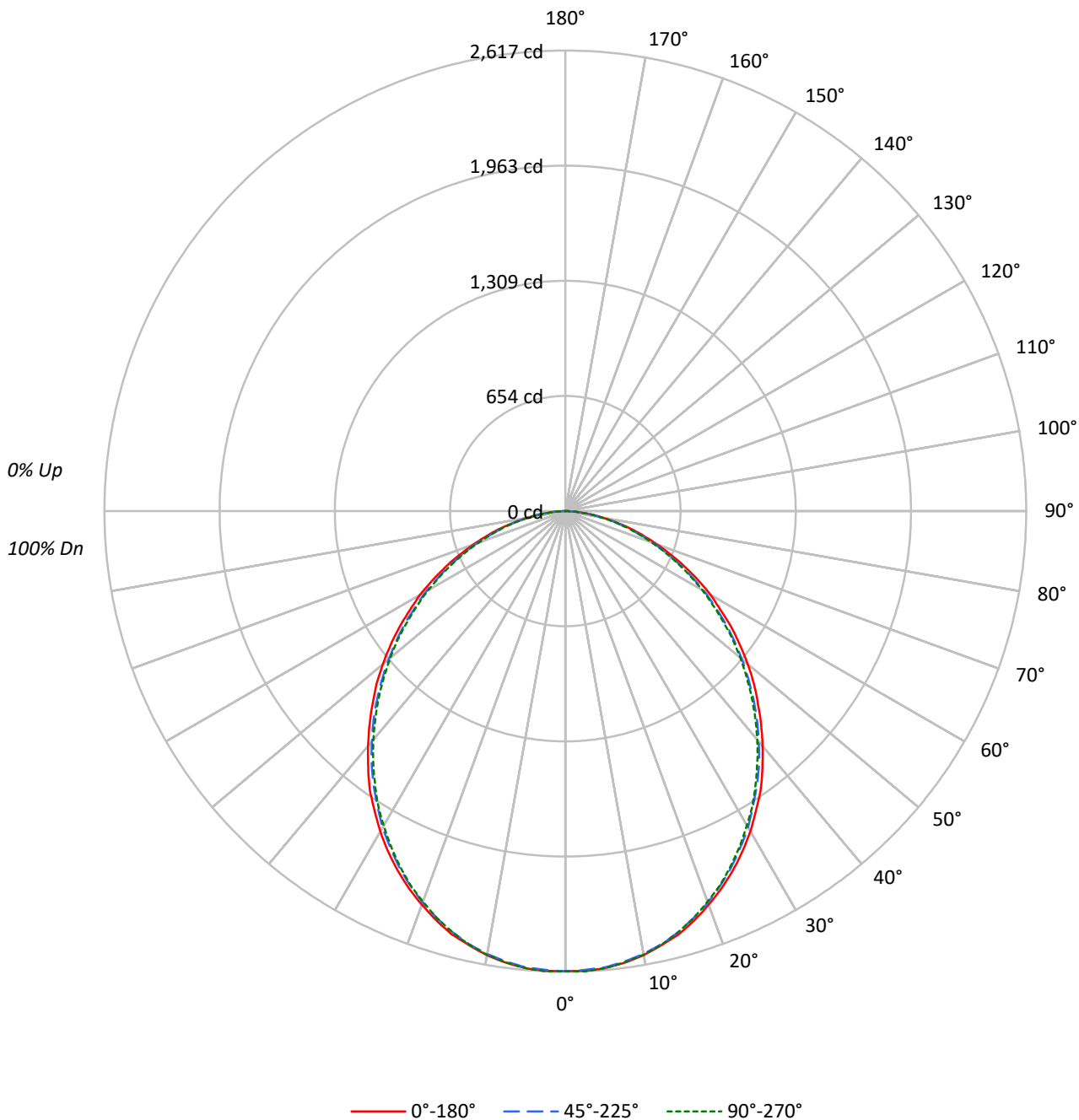
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6533.0 lumens  
Efficiency: N/A  
Efficacy: 141.4 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): 46.2  
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°	7035	7035	7035
5°	7041	7027	7041
10°	7001	6980	6994
15°	6935	6899	6899
20°	6816	6778	6763
25°	6688	6626	6603
30°	6530	6449	6408
35°	6356	6236	6193
40°	6119	6001	5955
45°	5886	5748	5698
50°	5658	5472	5429
55°	5400	5204	5131
60°	5129	4905	4835
65°	4775	4543	4493
70°	4364	4200	4098
75°	3980	3736	3763
80°	3429	3228	3268
85°	2652	2572	2411

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5886 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.0	3.8
10°-20°	698.3	10.7
20°-30°	1028.4	15.7
30°-40°	1189.7	18.2
40°-50°	1169.6	17.9
50°-60°	996.8	15.3
60°-70°	714.2	10.9
70°-80°	387.9	5.9
80°-90°	101.2	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°	1973.7	30.2
0°-40°	3163.4	48.4
0°-60°	5329.7	81.6
0°-90°	6533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6533.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2614	2614	2614	2614	2614	
5°	2606	2601	2601	2601	2606	247
15°	2489	2479	2476	2474	2476	701
25°	2252	2242	2232	2226	2224	1037
35°	1935	1919	1898	1888	1885	1207
45°	1547	1536	1510	1497	1497	1195
55°	1151	1130	1109	1096	1094	1028
65°	750	734	714	706	706	743
75°	383	370	359	354	362	404
85°	86	86	83	81	78	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2614.3	2614.3	2614.3	2614.3	2614.3
2.5°	2614.3	2611.7	2609.1	2611.7	2616.9
5°	2606.5	2601.3	2601.3	2601.3	2606.5
7.5°	2588.3	2583.1	2580.5	2583.1	2585.7
10°	2562.3	2557.1	2554.5	2557.1	2559.7
12.5°	2525.8	2523.2	2520.6	2520.6	2523.2
15°	2489.4	2478.9	2476.3	2473.7	2476.3
17.5°	2437.3	2434.7	2424.3	2424.3	2424.3
20°	2380.0	2374.8	2367.0	2361.8	2361.8
22.5°	2320.1	2314.9	2301.9	2296.7	2299.3
25°	2252.4	2242.0	2231.6	2226.4	2223.8
27.5°	2179.5	2169.1	2153.4	2145.6	2145.6
30°	2101.4	2093.6	2075.3	2064.9	2062.3
32.5°	2015.4	2010.2	1984.2	1979.0	1979.0
35°	1934.7	1919.1	1898.3	1887.8	1885.2
37.5°	1838.4	1828.0	1807.1	1794.1	1791.5
40°	1742.0	1729.0	1708.2	1697.8	1695.2
42.5°	1645.7	1632.7	1611.8	1598.8	1596.2
45°	1546.7	1536.3	1510.3	1497.3	1497.3
47.5°	1453.0	1432.2	1408.7	1398.3	1395.7
50°	1351.4	1333.2	1307.2	1296.8	1296.8
52.5°	1249.9	1236.9	1208.2	1203.0	1197.8
55°	1150.9	1130.1	1109.3	1096.3	1093.6
57.5°	1044.2	1025.9	1005.1	994.7	994.7
60°	953.0	929.6	911.4	898.4	898.4
62.5°	848.9	828.0	809.8	802.0	799.4
65°	749.9	734.3	713.5	705.7	705.7
67.5°	651.0	638.0	619.7	611.9	614.5
70°	554.6	546.8	533.8	523.4	520.8
72.5°	466.1	455.7	442.7	440.1	440.1
75°	382.8	369.8	359.3	354.1	361.9
77.5°	296.8	289.0	283.8	281.2	283.8
80°	221.3	210.9	208.3	210.9	210.9
82.5°	153.6	148.4	145.8	145.8	145.8
85°	85.9	85.9	83.3	80.7	78.1
87.5°	33.9	33.9	36.5	36.5	39.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)