

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: P601481

Luminaire Tested: 22CGSB-50-L850

Issue Date: 1/24/2024

**Test Information**

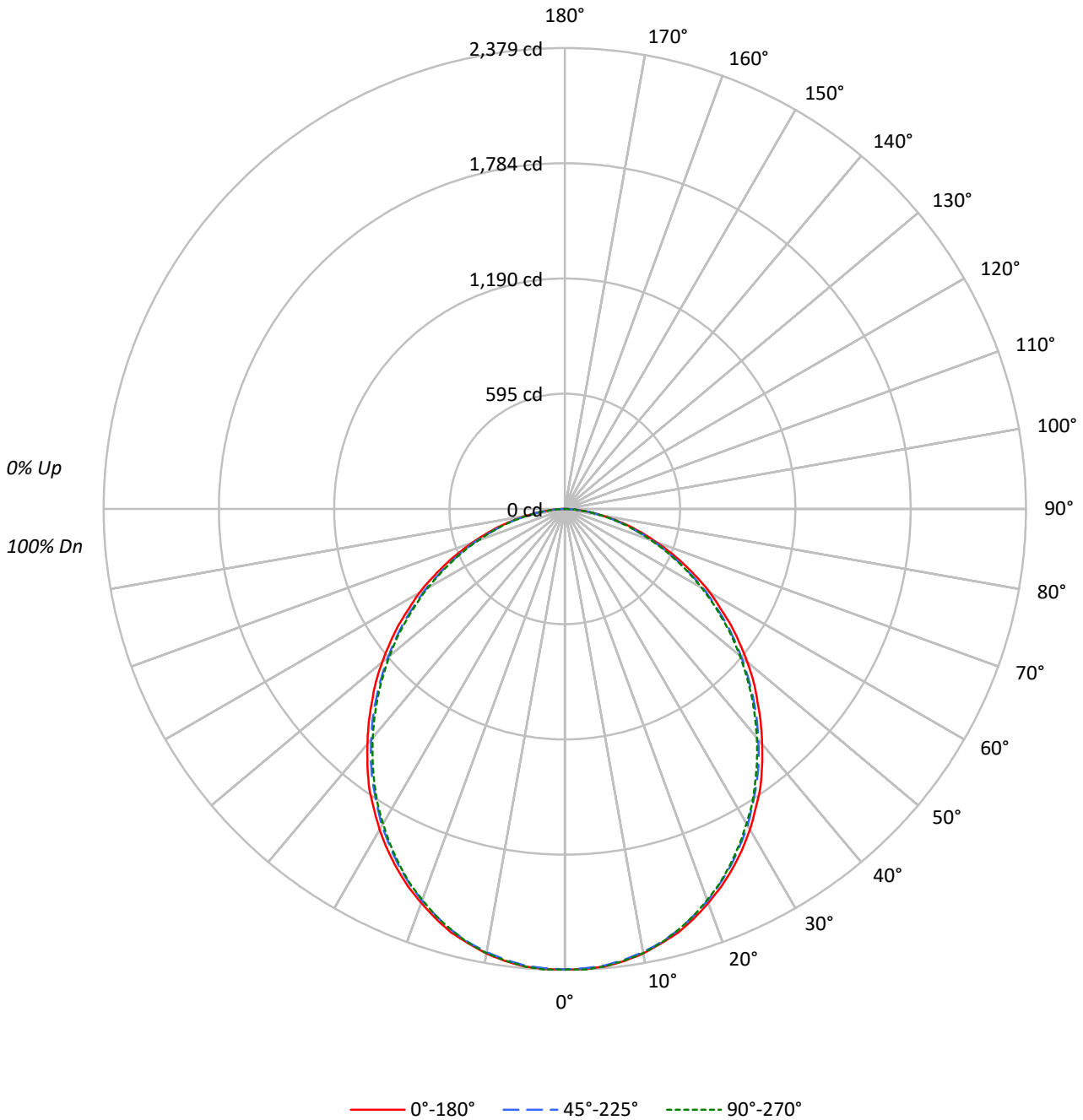
Test Method: LM-79-2019  
Report Number: P601481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/24/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CGSB-50-L850  
Description: 2x2 CGSB AT 5000lm 5000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5940.0 lumens  
Efficiency: N/A  
Efficacy: 139.8 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°	6396	6396	6396
5°	6402	6389	6402
10°	6366	6346	6359
15°	6306	6273	6273
20°	6197	6163	6149
25°	6081	6024	6003
30°	5937	5863	5826
35°	5779	5670	5631
40°	5564	5456	5414
45°	5352	5226	5181
50°	5144	4976	4936
55°	4910	4732	4665
60°	4663	4459	4396
65°	4342	4131	4085
70°	3968	3819	3725
75°	3618	3397	3422
80°	3118	2935	2972
85°	2411	2340	2192

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5352 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.5	3.8
10°-20°	634.9	10.7
20°-30°	935.1	15.7
30°-40°	1081.7	18.2
40°-50°	1063.4	17.9
50°-60°	906.3	15.3
60°-70°	649.4	10.9
70°-80°	352.7	5.9
80°-90°	92.0	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°	1794.5	30.2
0°-40°	2876.2	48.4
0°-60°	4846.0	81.6
0°-90°	5940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5940.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2377	2377	2377	2377	2377	
5°	2370	2365	2365	2365	2370	225
15°	2263	2254	2252	2249	2252	637
25°	2048	2038	2029	2024	2022	943
35°	1759	1745	1726	1716	1714	1097
45°	1406	1397	1373	1361	1361	1086
55°	1046	1028	1009	997	994	934
65°	682	668	649	642	642	675
75°	348	336	327	322	329	368
85°	78	78	76	73	71	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2377.0	2377.0	2377.0	2377.0	2377.0
2.5°	2377.0	2374.7	2372.3	2374.7	2379.4
5°	2369.9	2365.2	2365.2	2365.2	2369.9
7.5°	2353.4	2348.6	2346.3	2348.6	2351.0
10°	2329.7	2325.0	2322.6	2325.0	2327.3
12.5°	2296.5	2294.2	2291.8	2291.8	2294.2
15°	2263.4	2253.9	2251.6	2249.2	2251.6
17.5°	2216.0	2213.7	2204.2	2204.2	2204.2
20°	2164.0	2159.2	2152.1	2147.4	2147.4
22.5°	2109.5	2104.8	2092.9	2088.2	2090.6
25°	2047.9	2038.5	2029.0	2024.3	2021.9
27.5°	1981.7	1972.2	1958.0	1950.9	1950.9
30°	1910.6	1903.5	1887.0	1877.5	1875.1
32.5°	1832.5	1827.8	1804.1	1799.4	1799.4
35°	1759.1	1744.9	1726.0	1716.5	1714.1
37.5°	1671.5	1662.0	1643.1	1631.3	1628.9
40°	1583.9	1572.1	1553.1	1543.7	1541.3
42.5°	1496.3	1484.5	1465.5	1453.7	1451.3
45°	1406.3	1396.9	1373.2	1361.4	1361.4
47.5°	1321.1	1302.2	1280.9	1271.4	1269.0
50°	1228.8	1212.2	1188.5	1179.0	1179.0
52.5°	1136.4	1124.6	1098.6	1093.8	1089.1
55°	1046.5	1027.5	1008.6	996.7	994.4
57.5°	949.4	932.8	913.9	904.4	904.4
60°	866.5	845.2	828.6	816.8	816.8
62.5°	771.8	752.9	736.3	729.2	726.8
65°	681.9	667.7	648.7	641.6	641.6
67.5°	591.9	580.1	563.5	556.4	558.7
70°	504.3	497.2	485.4	475.9	473.5
72.5°	423.8	414.3	402.5	400.1	400.1
75°	348.0	336.2	326.7	322.0	329.1
77.5°	269.9	262.8	258.1	255.7	258.1
80°	201.2	191.8	189.4	191.8	191.8
82.5°	139.7	135.0	132.6	132.6	132.6
85°	78.1	78.1	75.8	73.4	71.0
87.5°	30.8	30.8	33.1	33.1	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)