

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: P601482

Luminaire Tested: 22CGSB-50-L930

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601482
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-L930
Description: 2x2 CGSB AT 5000lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

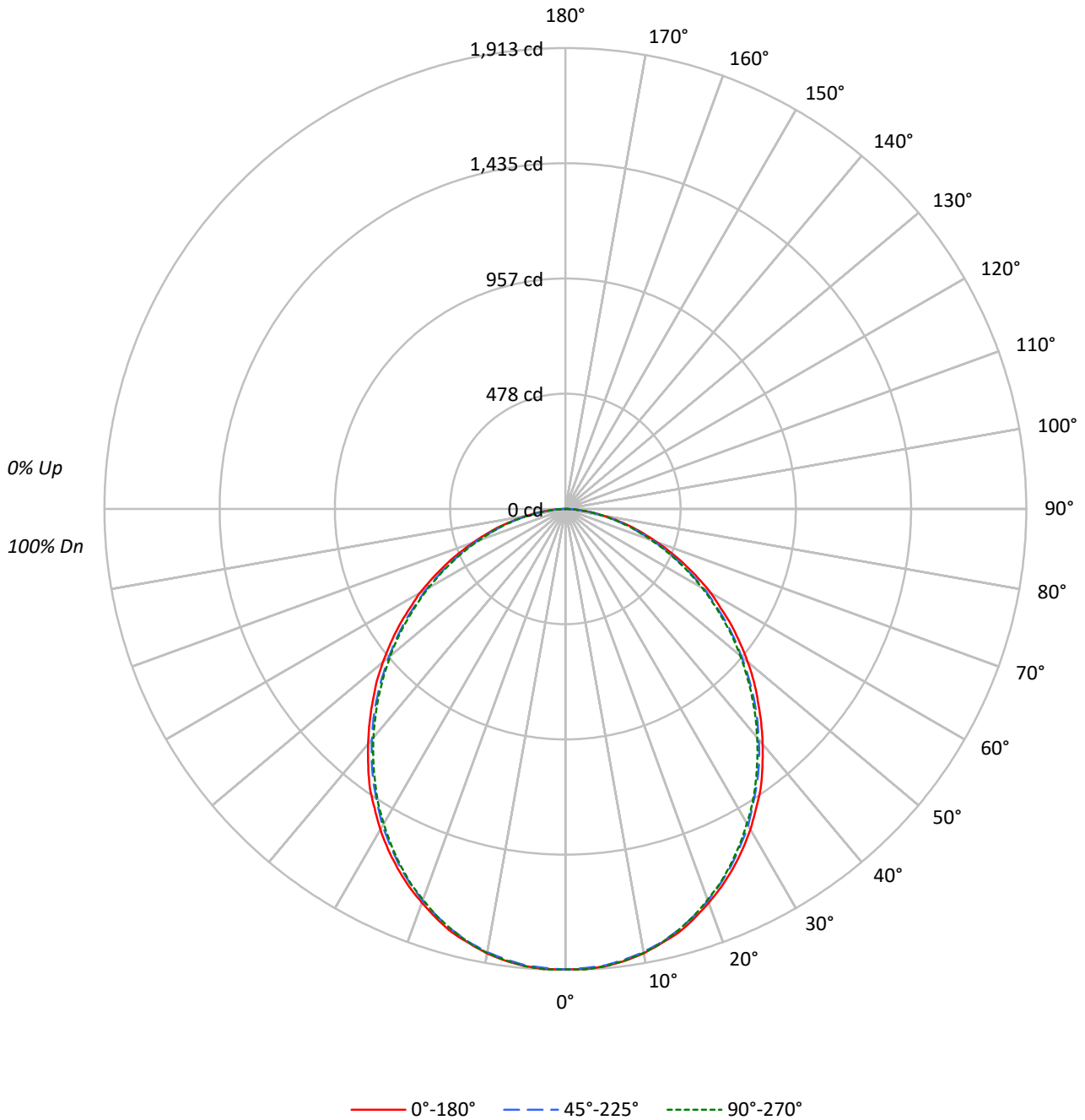
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4775.0 lumens
Efficiency: N/A
Efficacy: 112.4 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): 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	5142	5142	5142
5°	5146	5136	5146
10°	5117	5102	5112
15°	5069	5042	5042
20°	4981	4954	4943
25°	4888	4843	4826
30°	4772	4713	4684
35°	4645	4558	4527
40°	4473	4386	4352
45°	4302	4201	4165
50°	4135	4000	3968
55°	3947	3804	3750
60°	3749	3585	3534
65°	3490	3321	3284
70°	3190	3070	2995
75°	2909	2730	2750
80°	2507	2360	2390
85°	1939	1880	1763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4302 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	3.8
10°-20°	510.4	10.7
20°-30°	751.7	15.7
30°-40°	869.5	18.2
40°-50°	854.9	17.9
50°-60°	728.5	15.3
60°-70°	522.0	10.9
70°-80°	283.5	5.9
80°-90°	74.0	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°	1442.6	30.2
0°-40°	2312.1	48.4
0°-60°	3895.5	81.6
0°-90°	4775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1905	1901	1901	1901	1905	181
15°	1820	1812	1810	1808	1810	512
25°	1646	1639	1631	1627	1625	758
35°	1414	1403	1387	1380	1378	882
45°	1130	1123	1104	1094	1094	873
55°	841	826	811	801	799	751
65°	548	537	522	516	516	543
75°	280	270	263	259	264	296
85°	63	63	61	59	57	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.8	1910.8	1910.8	1910.8	<i>1910.8</i>
2.5°	<i>1910.8</i>	<i>1908.9</i>	<i>1907.0</i>	<i>1908.9</i>	<i>1912.7</i>
5°	1905.1	1901.3	1901.3	1901.3	<i>1905.1</i>
7.5°	1891.8	1888.0	1886.1	1888.0	<i>1889.9</i>
10°	1872.8	1869.0	1867.1	1869.0	<i>1870.9</i>
12.5°	1846.1	1844.2	1842.3	1842.3	<i>1844.2</i>
15°	1819.5	1811.9	1810.0	1808.1	<i>1810.0</i>
17.5°	1781.4	1779.5	1771.9	1771.9	<i>1771.9</i>
20°	1739.5	1735.7	1730.0	1726.2	<i>1726.2</i>
22.5°	1695.8	1692.0	1682.4	1678.6	<i>1680.5</i>
25°	1646.3	1638.7	1631.1	1627.3	<i>1625.4</i>
27.5°	1593.0	1585.4	1574.0	1568.3	<i>1568.3</i>
30°	1535.9	1530.2	1516.9	1509.3	<i>1507.4</i>
32.5°	1473.1	1469.3	1450.3	1446.4	<i>1446.4</i>
35°	1414.1	1402.7	1387.4	1379.8	<i>1377.9</i>
37.5°	1343.7	1336.1	1320.8	1311.3	<i>1309.4</i>
40°	1273.3	1263.7	1248.5	1240.9	<i>1239.0</i>
42.5°	1202.8	1193.3	1178.1	1168.6	<i>1166.7</i>
45°	1130.5	1122.9	1103.9	1094.4	<i>1094.4</i>
47.5°	1062.0	1046.8	1029.6	1022.0	<i>1020.1</i>
50°	987.8	974.5	955.4	947.8	<i>947.8</i>
52.5°	913.5	904.0	883.1	879.3	<i>875.5</i>
55°	841.2	826.0	810.8	801.3	<i>799.4</i>
57.5°	763.2	749.9	734.6	727.0	<i>727.0</i>
60°	696.6	679.5	666.1	656.6	<i>656.6</i>
62.5°	620.5	605.2	591.9	586.2	<i>584.3</i>
65°	548.1	536.7	521.5	515.8	<i>515.8</i>
67.5°	475.8	466.3	453.0	447.3	<i>449.2</i>
70°	405.4	399.7	390.2	382.5	<i>380.6</i>
72.5°	340.7	333.1	323.5	321.6	<i>321.6</i>
75°	279.8	270.3	262.6	258.8	<i>264.5</i>
77.5°	217.0	211.3	207.5	205.5	<i>207.5</i>
80°	161.8	154.2	152.3	154.2	<i>154.2</i>
82.5°	112.3	108.5	106.6	106.6	<i>106.6</i>
85°	62.8	62.8	60.9	59.0	<i>57.1</i>
87.5°	24.7	24.7	26.6	26.6	<i>28.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)