

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: P601500

Luminaire Tested: 22CGSB-60-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601500
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-60-L940
Description: 2x2 CGSB AT 6000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

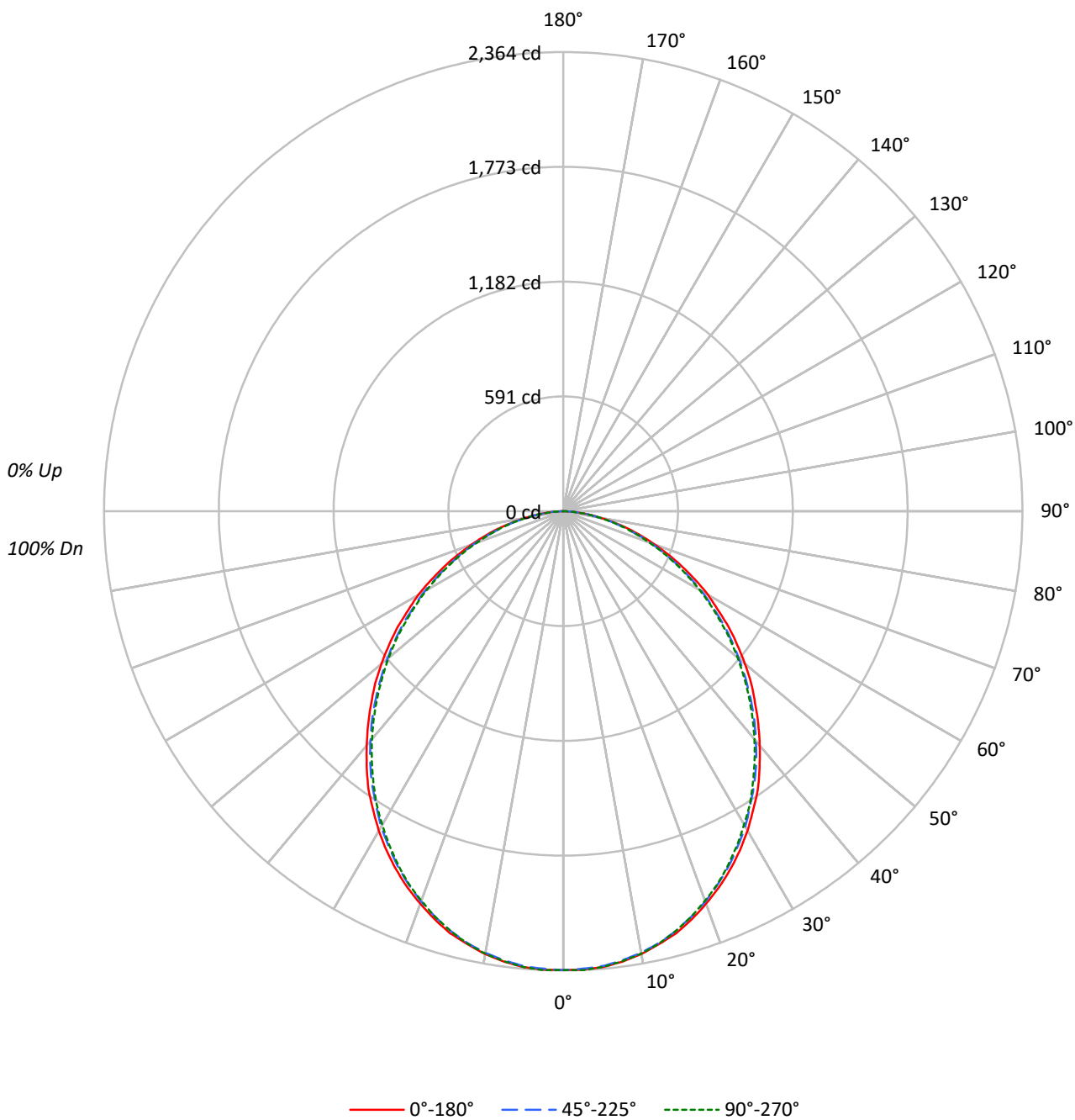
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5902.0 lumens
Efficiency: N/A
Efficacy: 110.1 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): 53.6
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°	6356	6356	6356
5°	6361	6348	6361
10°	6325	6306	6319
15°	6265	6233	6233
20°	6157	6124	6110
25°	6042	5986	5965
30°	5899	5826	5789
35°	5742	5634	5595
40°	5528	5421	5380
45°	5318	5192	5147
50°	5111	4944	4904
55°	4878	4701	4635
60°	4634	4431	4368
65°	4314	4104	4059
70°	3943	3794	3702
75°	3595	3375	3400
80°	3099	2916	2952
85°	2396	2325	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5318 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	3.8
10°-20°	630.8	10.7
20°-30°	929.1	15.7
30°-40°	1074.8	18.2
40°-50°	1056.6	17.9
50°-60°	900.5	15.3
60°-70°	645.2	10.9
70°-80°	350.4	5.9
80°-90°	91.4	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°	1783.0	30.2
0°-40°	2857.8	48.4
0°-60°	4814.9	81.6
0°-90°	5902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2362	2362	2362	2362	2362	
5°	2355	2350	2350	2350	2355	223
15°	2249	2240	2237	2235	2237	633
25°	2035	2025	2016	2011	2009	937
35°	1748	1734	1715	1706	1703	1090
45°	1397	1388	1364	1353	1353	1079
55°	1040	1021	1002	990	988	928
65°	678	663	645	638	638	671
75°	346	334	325	320	327	365
85°	78	78	75	73	71	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2361.8	2361.8	2361.8	2361.8	<i>2361.8</i>
2.5°	<i>2361.8</i>	<i>2359.5</i>	<i>2357.1</i>	<i>2359.5</i>	<i>2364.2</i>
5°	2354.8	2350.1	2350.1	2350.1	<i>2354.8</i>
7.5°	2338.3	2333.6	2331.3	2333.6	<i>2336.0</i>
10°	2314.8	2310.1	2307.7	2310.1	<i>2312.4</i>
12.5°	2281.9	2279.5	2277.1	2277.1	<i>2279.5</i>
15°	2248.9	2239.5	2237.2	2234.8	<i>2237.2</i>
17.5°	2201.9	2199.5	2190.1	2190.1	<i>2190.1</i>
20°	2150.1	2145.4	2138.4	2133.6	<i>2133.6</i>
22.5°	2096.0	2091.3	2079.5	2074.8	<i>2077.2</i>
25°	2034.8	2025.4	2016.0	2011.3	<i>2009.0</i>
27.5°	1969.0	1959.6	1945.5	1938.4	<i>1938.4</i>
30°	1898.4	1891.3	1874.9	1865.5	<i>1863.1</i>
32.5°	1820.8	1816.1	1792.5	1787.8	<i>1787.8</i>
35°	1747.9	1733.7	1714.9	1705.5	<i>1703.2</i>
37.5°	1660.8	1651.4	1632.6	1620.8	<i>1618.5</i>
40°	1573.8	1562.0	1543.2	1533.8	<i>1531.4</i>
42.5°	1486.7	1475.0	1456.2	1444.4	<i>1442.0</i>
45°	1397.3	1387.9	1364.4	1352.6	<i>1352.6</i>
47.5°	1312.7	1293.8	1272.7	1263.3	<i>1260.9</i>
50°	1220.9	1204.4	1180.9	1171.5	<i>1171.5</i>
52.5°	1129.2	1117.4	1091.5	1086.8	<i>1082.1</i>
55°	1039.8	1021.0	1002.1	990.4	<i>988.0</i>
57.5°	943.3	926.9	908.0	898.6	<i>898.6</i>
60°	861.0	839.8	823.3	811.6	<i>811.6</i>
62.5°	766.9	748.1	731.6	724.5	<i>722.2</i>
65°	677.5	663.4	644.6	637.5	<i>637.5</i>
67.5°	588.1	576.3	559.9	552.8	<i>555.2</i>
70°	501.1	494.0	482.2	472.8	<i>470.5</i>
72.5°	421.1	411.7	399.9	397.6	<i>397.6</i>
75°	345.8	334.0	324.6	319.9	<i>327.0</i>
77.5°	268.2	261.1	256.4	254.1	<i>256.4</i>
80°	200.0	190.5	188.2	190.5	<i>190.5</i>
82.5°	138.8	134.1	131.7	131.7	<i>131.7</i>
85°	77.6	77.6	75.3	72.9	<i>70.6</i>
87.5°	30.6	30.6	32.9	32.9	<i>35.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)