

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: P601450

Luminaire Tested: 22CGSB-30-L930

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601450  
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-30-L930  
Description: 2x2 CGSB AT 3000lm 3000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

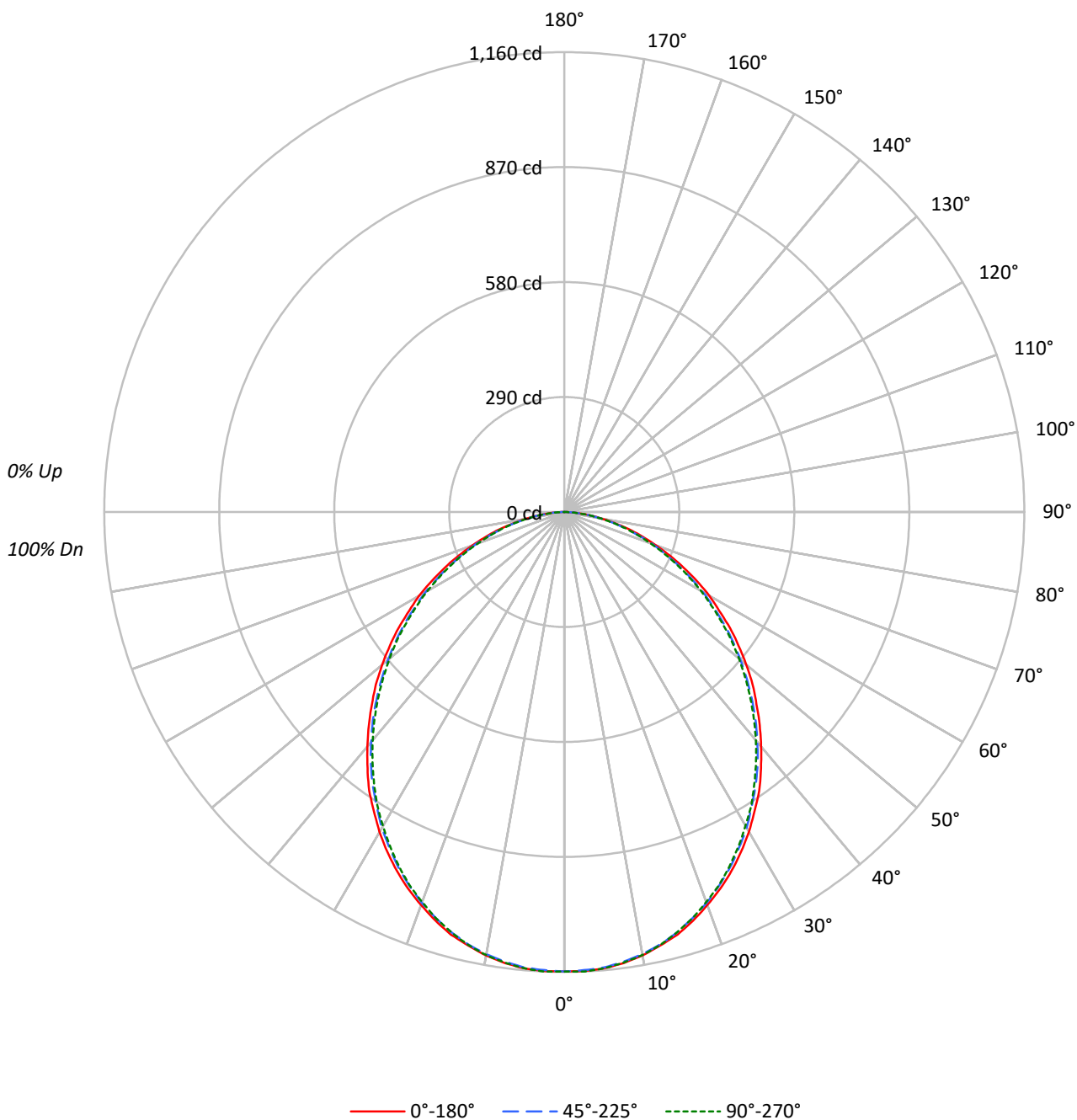
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2896.0 lumens  
Efficiency: N/A  
Efficacy: 116.3 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): 24.9  
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°	3119	3119	3119
5°	3121	3115	3121
10°	3104	3094	3101
15°	3074	3058	3058
20°	3021	3005	2998
25°	2965	2937	2927
30°	2894	2859	2841
35°	2817	2764	2745
40°	2713	2660	2640
45°	2609	2548	2526
50°	2508	2426	2406
55°	2394	2307	2274
60°	2274	2174	2143
65°	2117	2014	1992
70°	1935	1862	1817
75°	1764	1656	1668
80°	1520	1430	1449
85°	1176	1139	1068

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2609 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.5	3.8
10°-20°	309.5	10.7
20°-30°	455.9	15.7
30°-40°	527.4	18.2
40°-50°	518.5	17.9
50°-60°	441.9	15.3
60°-70°	316.6	10.9
70°-80°	171.9	5.9
80°-90°	44.9	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°	874.9	30.2
0°-40°	1402.3	48.4
0°-60°	2362.6	81.6
0°-90°	2896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1155	1153	1153	1153	1155	110
15°	1104	1099	1098	1097	1098	311
25°	998	994	989	987	986	460
35°	858	851	842	837	836	535
45°	686	681	670	664	664	530
55°	510	501	492	486	485	456
65°	332	326	316	313	313	329
75°	170	164	159	157	160	179
85°	38	38	37	36	35	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1158.9	1158.9	1158.9	1158.9	<i>1158.9</i>
2.5°	<i>1158.9</i>	<i>1157.8</i>	<i>1156.6</i>	<i>1157.8</i>	<i>1160.1</i>
5°	1155.4	1153.1	1153.1	1153.1	<i>1155.4</i>
7.5°	1147.4	1145.1	1143.9	1145.1	<i>1146.2</i>
10°	1135.8	1133.5	1132.4	1133.5	<i>1134.7</i>
12.5°	1119.7	1118.5	1117.4	1117.4	<i>1118.5</i>
15°	1103.5	1098.9	1097.7	1096.6	<i>1097.7</i>
17.5°	1080.4	1079.3	1074.6	1074.6	<i>1074.6</i>
20°	1055.0	1052.7	1049.2	1046.9	<i>1046.9</i>
22.5°	1028.5	1026.2	1020.4	1018.1	<i>1019.2</i>
25°	998.5	993.8	989.2	986.9	<i>985.8</i>
27.5°	966.1	961.5	954.6	951.1	<i>951.1</i>
30°	931.5	928.0	920.0	915.4	<i>914.2</i>
32.5°	893.4	891.1	879.6	877.3	<i>877.3</i>
35°	857.6	850.7	841.5	836.9	<i>835.7</i>
37.5°	814.9	810.3	801.1	795.3	<i>794.2</i>
40°	772.2	766.4	757.2	752.6	<i>751.4</i>
42.5°	729.5	723.7	714.5	708.7	<i>707.6</i>
45°	685.6	681.0	669.5	663.7	<i>663.7</i>
47.5°	644.1	634.9	624.5	619.9	<i>618.7</i>
50°	599.1	591.0	579.5	574.8	<i>574.8</i>
52.5°	554.1	548.3	535.6	533.3	<i>531.0</i>
55°	510.2	501.0	491.7	486.0	<i>484.8</i>
57.5°	462.9	454.8	445.6	440.9	<i>440.9</i>
60°	422.5	412.1	404.0	398.2	<i>398.2</i>
62.5°	376.3	367.1	359.0	355.5	<i>354.4</i>
65°	332.4	325.5	316.3	312.8	<i>312.8</i>
67.5°	288.6	282.8	274.7	271.3	<i>272.4</i>
70°	245.9	242.4	236.6	232.0	<i>230.9</i>
72.5°	206.6	202.0	196.2	195.1	<i>195.1</i>
75°	169.7	163.9	159.3	157.0	<i>160.4</i>
77.5°	131.6	128.1	125.8	124.7	<i>125.8</i>
80°	98.1	93.5	92.3	93.5	<i>93.5</i>
82.5°	68.1	65.8	64.6	64.6	<i>64.6</i>
85°	38.1	38.1	36.9	35.8	<i>34.6</i>
87.5°	15.0	15.0	16.2	16.2	<i>17.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)