

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: P601458

Luminaire Tested: 22CGSB-35-L930

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601458  
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-35-L930  
Description: 2x2 CGSB AT 3500lm 3000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

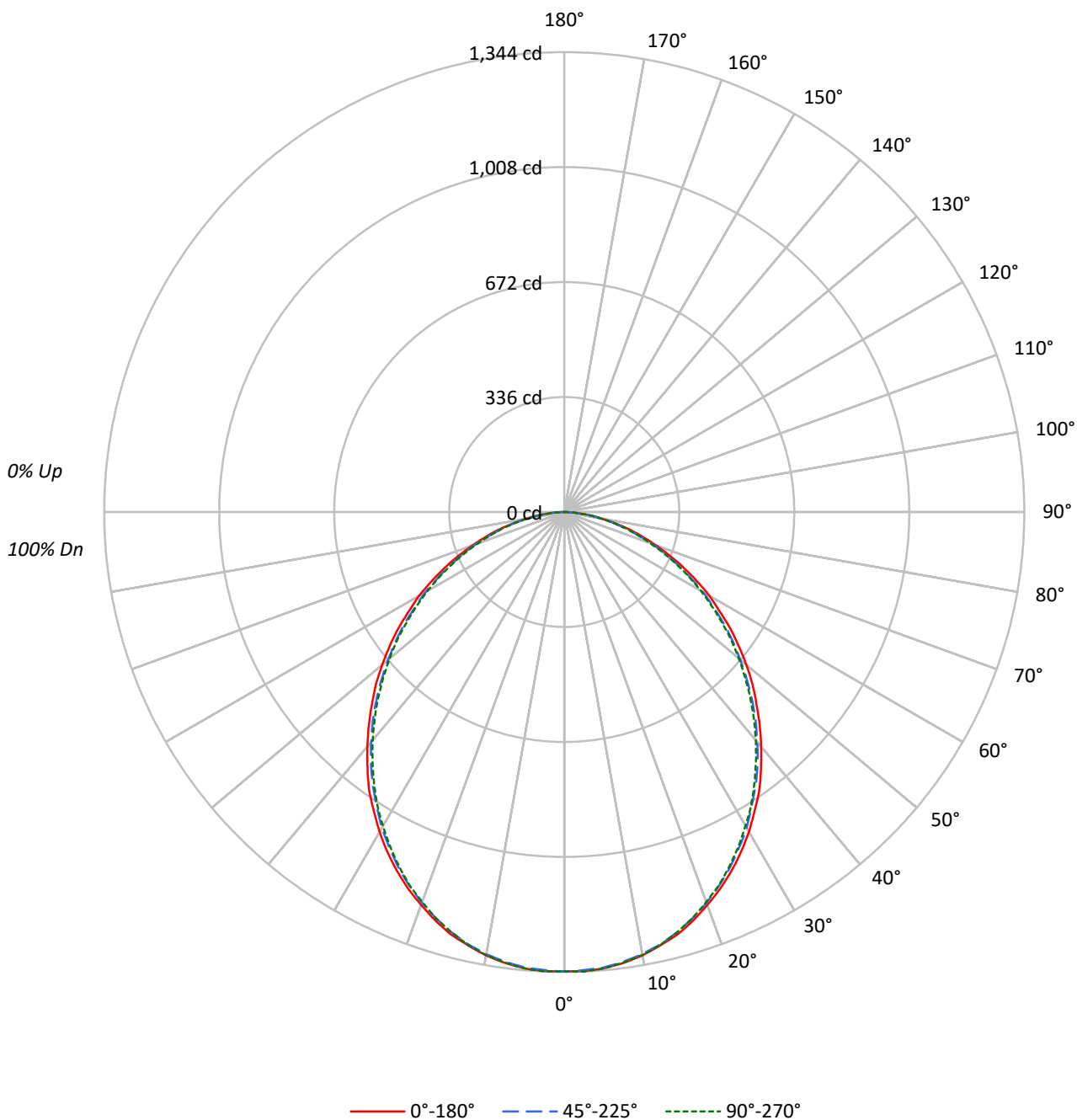
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3355.0 lumens  
Efficiency: N/A  
Efficacy: 114.9 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): 29.2  
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°	3613	3613	3613
5°	3616	3609	3616
10°	3595	3584	3592
15°	3562	3543	3543
20°	3500	3481	3473
25°	3434	3403	3391
30°	3353	3312	3291
35°	3264	3202	3181
40°	3143	3081	3058
45°	3023	2952	2926
50°	2905	2810	2788
55°	2773	2673	2635
60°	2634	2519	2483
65°	2452	2333	2308
70°	2241	2157	2104
75°	2044	1918	1933
80°	1762	1658	1678
85°	1362	1321	1238

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3023 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.8	3.8
10°-20°	358.6	10.7
20°-30°	528.1	15.7
30°-40°	611.0	18.2
40°-50°	600.6	17.9
50°-60°	511.9	15.3
60°-70°	366.8	10.9
70°-80°	199.2	5.9
80°-90°	52.0	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°	1013.6	30.2
0°-40°	1624.5	48.4
0°-60°	2737.0	81.6
0°-90°	3355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1339	1336	1336	1336	1339	127
15°	1278	1273	1272	1270	1272	360
25°	1157	1151	1146	1143	1142	532
35°	994	986	975	970	968	620
45°	794	789	776	769	769	614
55°	591	580	570	563	562	528
65°	385	377	366	362	362	381
75°	197	190	184	182	186	208
85°	44	44	43	42	40	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1342.6	1342.6	1342.6	1342.6	<i>1342.6</i>
2.5°	<i>1342.6</i>	<i>1341.3</i>	<i>1339.9</i>	<i>1341.3</i>	<i>1343.9</i>
5°	1338.6	1335.9	1335.9	1335.9	<i>1338.6</i>
7.5°	1329.2	1326.5	1325.2	1326.5	<i>1327.9</i>
10°	1315.8	1313.2	1311.8	1313.2	<i>1314.5</i>
12.5°	1297.1	1295.8	1294.4	1294.4	<i>1295.8</i>
15°	1278.4	1273.1	1271.7	1270.4	<i>1271.7</i>
17.5°	1251.7	1250.3	1245.0	1245.0	<i>1245.0</i>
20°	1222.2	1219.6	1215.5	1212.9	<i>1212.9</i>
22.5°	1191.5	1188.8	1182.1	1179.4	<i>1180.8</i>
25°	1156.7	1151.4	1146.0	1143.3	<i>1142.0</i>
27.5°	1119.3	1113.9	1105.9	1101.9	<i>1101.9</i>
30°	1079.2	1075.1	1065.8	1060.4	<i>1059.1</i>
32.5°	1035.0	1032.3	1019.0	1016.3	<i>1016.3</i>
35°	993.6	985.5	974.8	969.5	<i>968.2</i>
37.5°	944.1	938.7	928.0	921.4	<i>920.0</i>
40°	894.6	887.9	877.2	871.9	<i>870.5</i>
42.5°	845.1	838.4	827.8	821.1	<i>819.7</i>
45°	794.3	789.0	775.6	768.9	<i>768.9</i>
47.5°	746.2	735.5	723.4	718.1	<i>716.8</i>
50°	694.0	684.7	671.3	665.9	<i>665.9</i>
52.5°	641.9	635.2	620.5	617.8	<i>615.1</i>
55°	591.1	580.4	569.7	563.0	<i>561.6</i>
57.5°	536.2	526.9	516.2	510.8	<i>510.8</i>
60°	489.4	477.4	468.0	461.3	<i>461.3</i>
62.5°	435.9	425.2	415.9	411.9	<i>410.5</i>
65°	385.1	377.1	366.4	362.4	<i>362.4</i>
67.5°	334.3	327.6	318.3	314.3	<i>315.6</i>
70°	284.8	280.8	274.1	268.8	<i>267.4</i>
72.5°	239.4	234.0	227.3	226.0	<i>226.0</i>
75°	196.6	189.9	184.5	181.9	<i>185.9</i>
77.5°	152.4	148.4	145.8	144.4	<i>145.8</i>
80°	113.7	108.3	107.0	108.3	<i>108.3</i>
82.5°	78.9	76.2	74.9	74.9	<i>74.9</i>
85°	44.1	44.1	42.8	41.5	<i>40.1</i>
87.5°	17.4	17.4	18.7	18.7	<i>20.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)