

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: P601462

Luminaire Tested: 22CGSB-40-L830

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601462  
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-40-L830  
Description: 2x2 CGSB AT 4000lm 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

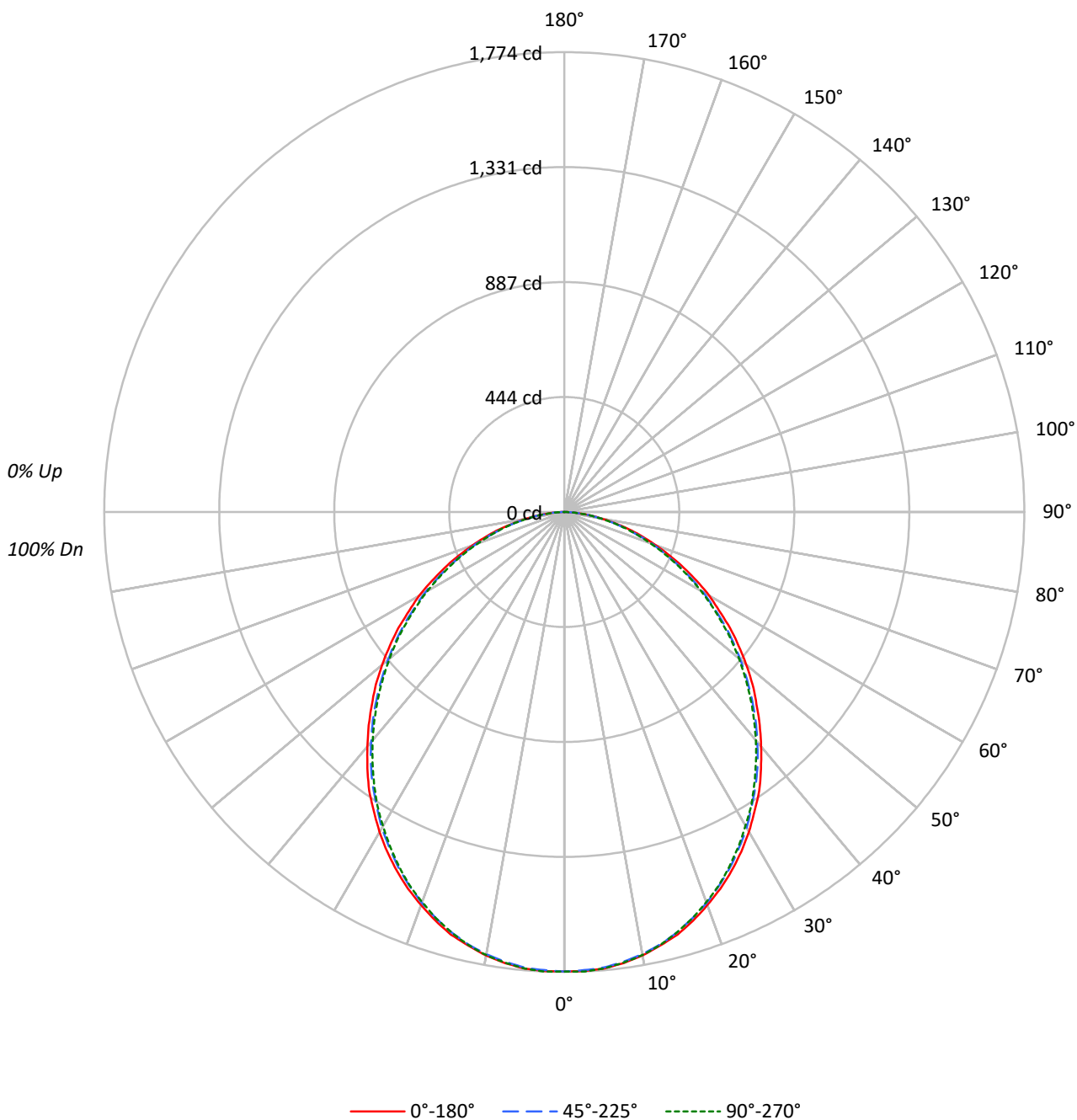
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4429.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 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): 33.8  
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°	4769	4769	4769
5°	4773	4764	4773
10°	4747	4732	4742
15°	4701	4677	4677
20°	4621	4595	4585
25°	4534	4492	4476
30°	4427	4372	4344
35°	4309	4228	4199
40°	4149	4068	4037
45°	3991	3897	3863
50°	3836	3710	3680
55°	3661	3528	3478
60°	3477	3326	3278
65°	3237	3080	3046
70°	2958	2847	2778
75°	2698	2533	2551
80°	2326	2188	2216
85°	1800	1744	1636

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3991 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	3.8
10°-20°	473.4	10.7
20°-30°	697.2	15.7
30°-40°	806.5	18.2
40°-50°	792.9	17.9
50°-60°	675.7	15.3
60°-70°	484.2	10.9
70°-80°	263.0	5.9
80°-90°	68.6	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°	1338.0	30.2
0°-40°	2144.6	48.4
0°-60°	3613.2	81.6
0°-90°	4429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4429.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1767	1764	1764	1764	1767	168
15°	1688	1681	1679	1677	1679	475
25°	1527	1520	1513	1509	1508	703
35°	1312	1301	1287	1280	1278	818
45°	1049	1042	1024	1015	1015	810
55°	780	766	752	743	741	697
65°	508	498	484	478	478	504
75°	260	251	244	240	245	274
85°	58	58	56	55	53	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1772.4	1772.4	1772.4	1772.4	1772.4
2.5°	1772.4	1770.6	1768.8	1770.6	1774.1
5°	1767.1	1763.5	1763.5	1763.5	1767.1
7.5°	1754.7	1751.2	1749.4	1751.2	1753.0
10°	1737.1	1733.5	1731.8	1733.5	1735.3
12.5°	1712.4	1710.6	1708.8	1708.8	1710.6
15°	1687.6	1680.6	1678.8	1677.0	1678.8
17.5°	1652.3	1650.6	1643.5	1643.5	1643.5
20°	1613.5	1610.0	1604.7	1601.1	1601.1
22.5°	1572.9	1569.4	1560.5	1557.0	1558.8
25°	1527.0	1519.9	1512.9	1509.3	1507.6
27.5°	1477.6	1470.5	1459.9	1454.6	1454.6
30°	1424.6	1419.3	1407.0	1399.9	1398.1
32.5°	1366.4	1362.8	1345.2	1341.6	1341.6
35°	1311.6	1301.0	1286.9	1279.9	1278.1
37.5°	1246.3	1239.3	1225.1	1216.3	1214.5
40°	1181.0	1172.2	1158.0	1151.0	1149.2
42.5°	1115.7	1106.9	1092.7	1083.9	1082.1
45°	1048.6	1041.5	1023.9	1015.1	1015.1
47.5°	985.0	970.9	955.0	948.0	946.2
50°	916.2	903.8	886.2	879.1	879.1
52.5°	847.4	838.5	819.1	815.6	812.0
55°	780.3	766.1	752.0	743.2	741.4
57.5°	707.9	695.5	681.4	674.4	674.4
60°	646.1	630.2	617.9	609.0	609.0
62.5°	575.5	561.4	549.0	543.7	542.0
65°	508.4	497.8	483.7	478.4	478.4
67.5°	441.3	432.5	420.1	414.8	416.6
70°	376.0	370.7	361.9	354.8	353.1
72.5°	316.0	308.9	300.1	298.3	298.3
75°	259.5	250.7	243.6	240.1	245.4
77.5°	201.2	195.9	192.4	190.7	192.4
80°	150.1	143.0	141.2	143.0	143.0
82.5°	104.2	100.6	98.9	98.9	98.9
85°	58.3	58.3	56.5	54.7	53.0
87.5°	22.9	22.9	24.7	24.7	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)