

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: P601508

Luminaire Tested: 22CGSB-70-L940

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601508  
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-70-L940  
Description: 2x2 CGSB AT 7000lm 4000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

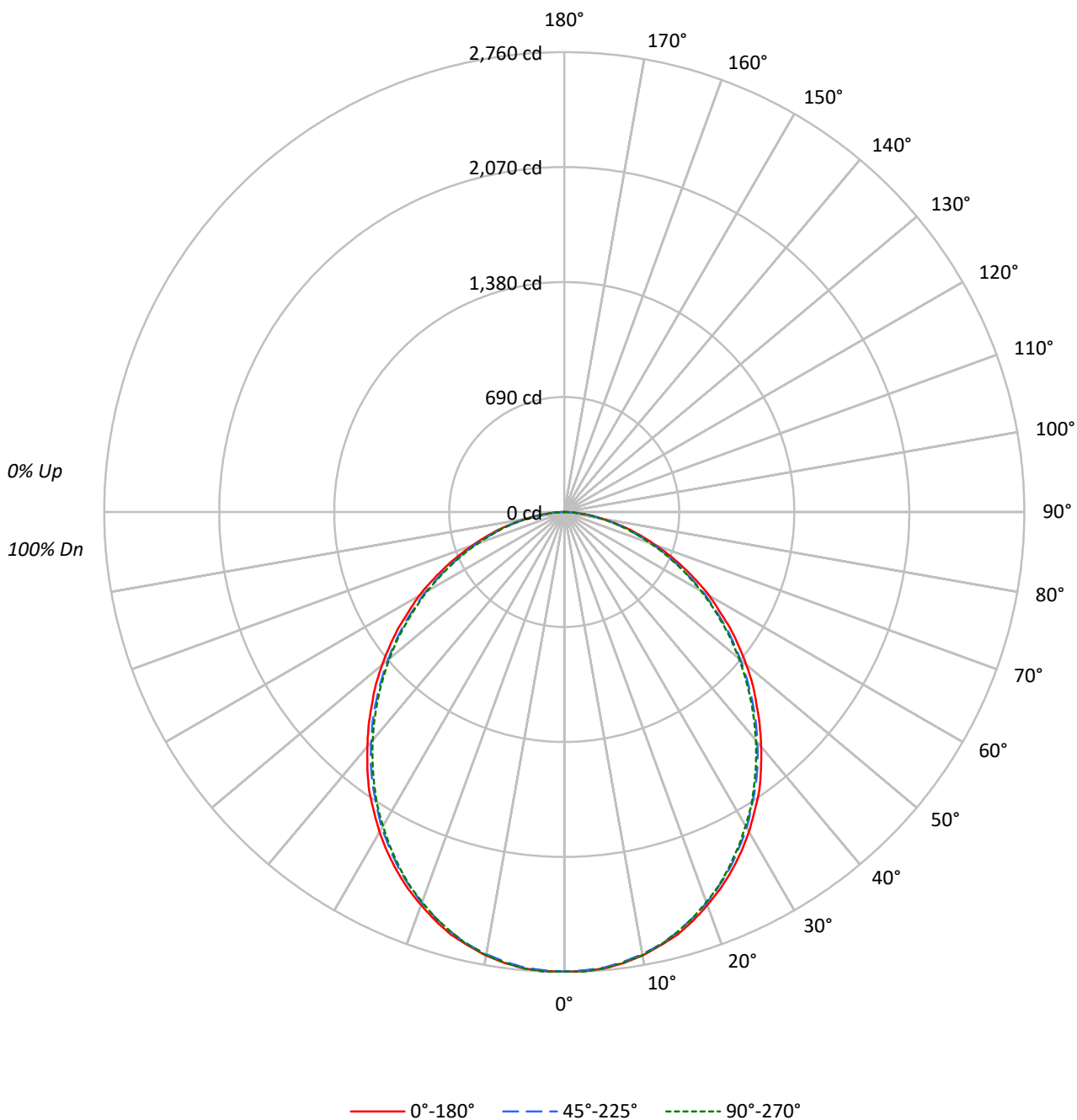
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6891.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 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): 63  
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

TEST NUMBER: P601508  
CATALOG NUMBER: 22CGSB-70-L940

### Luminous Intensity Polar Plot





TEST NUMBER: P601508  
 CATALOG NUMBER: 22CGSB-70-L940

**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°	7421	7421	7421
5°	7427	7412	7427
10°	7385	7362	7377
15°	7315	7277	7277
20°	7189	7150	7134
25°	7054	6989	6964
30°	6887	6802	6759
35°	6704	6578	6533
40°	6455	6329	6281
45°	6209	6062	6010
50°	5968	5772	5726
55°	5696	5490	5412
60°	5410	5174	5100
65°	5037	4792	4739
70°	4603	4430	4322
75°	4198	3941	3970
80°	3618	3405	3448
85°	2797	2714	2544

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6209 cd/sqm



TEST NUMBER: P601508  
 CATALOG NUMBER: 22CGSB-70-L940

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.5	3.8
10°-20°	736.5	10.7
20°-30°	1084.8	15.7
30°-40°	1254.9	18.2
40°-50°	1233.7	17.9
50°-60°	1051.4	15.3
60°-70°	753.3	10.9
70°-80°	409.2	5.9
80°-90°	106.7	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°	2081.8	30.2
0°-40°	3336.7	48.4
0°-60°	5621.8	81.6
0°-90°	6891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6891.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2758	2758	2758	2758	2758	
5°	2749	2744	2744	2744	2749	261
15°	2626	2615	2612	2609	2612	739
25°	2376	2365	2354	2348	2346	1094
35°	2041	2024	2002	1991	1989	1273
45°	1632	1620	1593	1579	1579	1260
55°	1214	1192	1170	1156	1154	1084
65°	791	774	753	744	744	784
75°	404	390	379	374	382	426
85°	91	91	88	85	82	110
90°	0	0	0	0	0	



TEST NUMBER: P601508  
 CATALOG NUMBER: 22CGSB-70-L940

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2757.6	2757.6	2757.6	2757.6	2757.6
2.5°	2757.6	2754.9	2752.1	2754.9	2760.4
5°	2749.4	2743.9	2743.9	2743.9	2749.4
7.5°	2730.1	2724.6	2721.9	2724.6	2727.4
10°	2702.7	2697.2	2694.4	2697.2	2699.9
12.5°	2664.2	2661.5	2658.7	2658.7	2661.5
15°	2625.8	2614.8	2612.0	2609.3	2612.0
17.5°	2570.8	2568.1	2557.1	2557.1	2557.1
20°	2510.4	2504.9	2496.7	2491.2	2491.2
22.5°	2447.2	2441.7	2428.0	2422.5	2425.3
25°	2375.8	2364.8	2353.9	2348.4	2345.6
27.5°	2298.9	2287.9	2271.5	2263.2	2263.2
30°	2216.5	2208.3	2189.1	2178.1	2175.3
32.5°	2125.9	2120.4	2092.9	2087.4	2087.4
35°	2040.7	2024.3	2002.3	1991.3	1988.6
37.5°	1939.1	1928.1	1906.2	1892.4	1889.7
40°	1837.5	1823.8	1801.8	1790.8	1788.0
42.5°	1735.9	1722.1	1700.2	1686.4	1683.7
45°	1631.5	1620.5	1593.0	1579.3	1579.3
47.5°	1532.6	1510.6	1485.9	1474.9	1472.2
50°	1425.5	1406.3	1378.8	1367.8	1367.8
52.5°	1318.4	1304.6	1274.4	1268.9	1263.4
55°	1214.0	1192.0	1170.1	1156.3	1153.6
57.5°	1101.4	1082.2	1060.2	1049.2	1049.2
60°	1005.3	980.5	961.3	947.6	947.6
62.5°	895.4	873.4	854.2	846.0	843.2
65°	791.0	774.5	752.6	744.3	744.3
67.5°	686.7	672.9	653.7	645.5	648.2
70°	585.0	576.8	563.1	552.1	549.3
72.5°	491.6	480.7	466.9	464.2	464.2
75°	403.8	390.0	379.0	373.5	381.8
77.5°	313.1	304.9	299.4	296.6	299.4
80°	233.5	222.5	219.7	222.5	222.5
82.5°	162.1	156.6	153.8	153.8	153.8
85°	90.6	90.6	87.9	85.1	82.4
87.5°	35.7	35.7	38.5	38.5	41.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)