

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: P601509

Luminaire Tested: 22CGSB-70-L950

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601509  
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-L950  
Description: 2x2 CGSB AT 7000lm 5000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

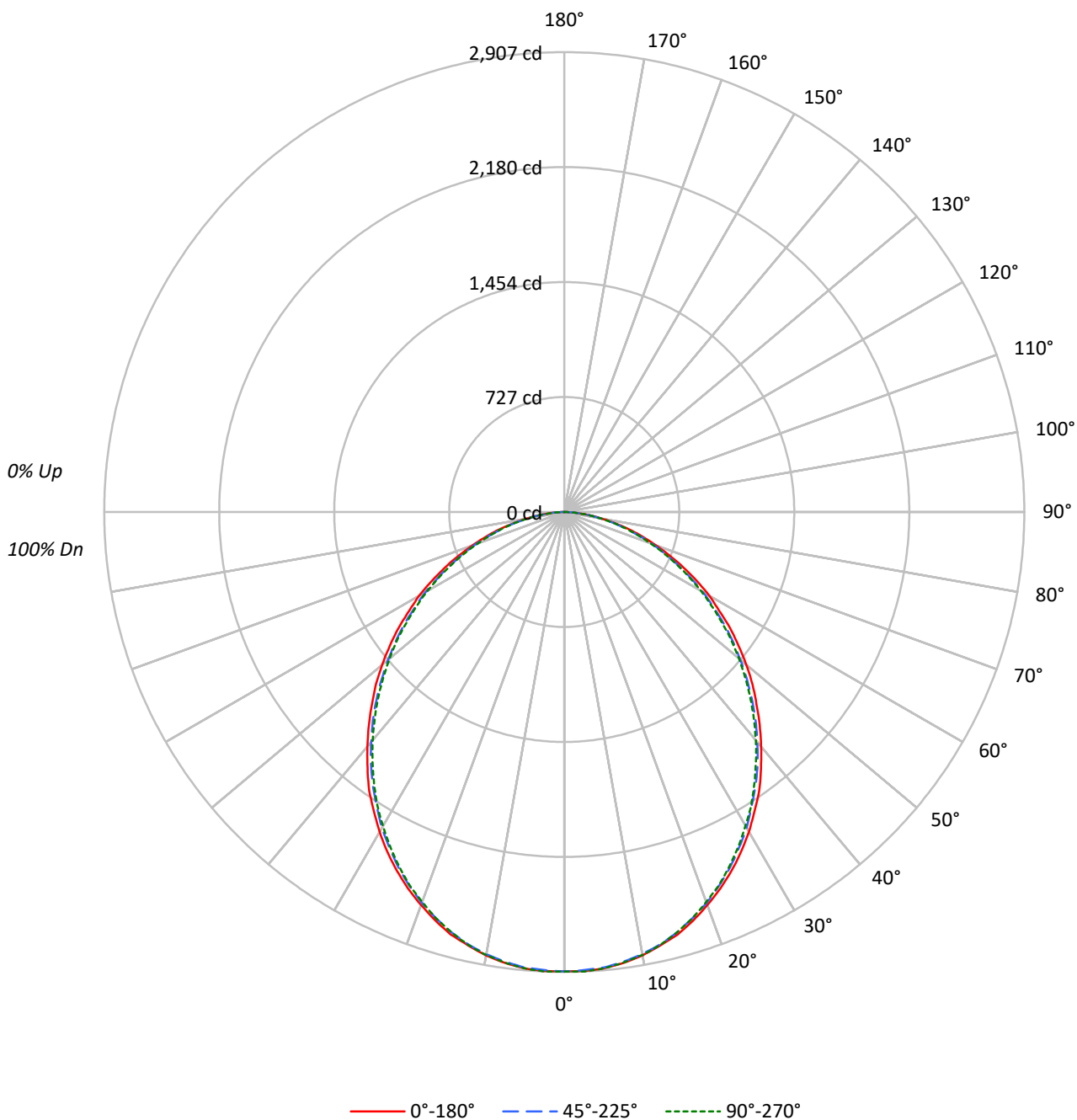
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7257.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 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

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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°	7815	7815	7815
5°	7821	7806	7821
10°	7777	7753	7769
15°	7704	7663	7663
20°	7571	7529	7513
25°	7429	7360	7334
30°	7253	7163	7118
35°	7060	6927	6880
40°	6798	6666	6615
45°	6538	6385	6330
50°	6285	6079	6031
55°	5998	5781	5700
60°	5698	5449	5371
65°	5304	5046	4991
70°	4847	4666	4552
75°	4421	4151	4181
80°	3811	3586	3631
85°	2949	2859	2680

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6538 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.3	3.8
10°-20°	775.7	10.7
20°-30°	1142.4	15.7
30°-40°	1321.5	18.2
40°-50°	1299.2	17.9
50°-60°	1107.2	15.3
60°-70°	793.4	10.9
70°-80°	430.9	5.9
80°-90°	112.4	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°	2192.4	30.2
0°-40°	3513.9	48.4
0°-60°	5920.4	81.6
0°-90°	7257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7257.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2904	2904	2904	2904	2904	
5°	2895	2890	2890	2890	2895	275
15°	2765	2754	2751	2748	2751	778
25°	2502	2490	2479	2473	2470	1152
35°	2149	2132	2109	2097	2094	1340
45°	1718	1707	1678	1663	1663	1327
55°	1278	1255	1232	1218	1215	1142
65°	833	816	792	784	784	825
75°	425	411	399	393	402	449
85°	96	96	93	90	87	116
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2904.1	2904.1	2904.1	2904.1	2904.1
2.5°	2904.1	2901.2	2898.3	2901.2	2907.0
5°	2895.4	2889.6	2889.6	2889.6	2895.4
7.5°	2875.1	2869.4	2866.5	2869.4	2872.3
10°	2846.2	2840.4	2837.5	2840.4	2843.3
12.5°	2805.7	2802.8	2799.9	2799.9	2802.8
15°	2765.2	2753.7	2750.8	2747.9	2750.8
17.5°	2707.4	2704.5	2692.9	2692.9	2692.9
20°	2643.7	2638.0	2629.3	2623.5	2623.5
22.5°	2577.2	2571.4	2557.0	2551.2	2554.1
25°	2502.0	2490.4	2478.9	2473.1	2470.2
27.5°	2421.0	2409.5	2392.1	2383.4	2383.4
30°	2334.2	2325.6	2305.3	2293.8	2290.9
32.5°	2238.8	2233.0	2204.1	2198.3	2198.3
35°	2149.1	2131.8	2108.6	2097.1	2094.2
37.5°	2042.1	2030.5	2007.4	1992.9	1990.0
40°	1935.1	1920.6	1897.5	1885.9	1883.0
42.5°	1828.1	1813.6	1790.5	1776.0	1773.1
45°	1718.1	1706.6	1677.7	1663.2	1663.2
47.5°	1614.0	1590.9	1564.8	1553.3	1550.4
50°	1501.2	1481.0	1452.0	1440.5	1440.5
52.5°	1388.4	1373.9	1342.1	1336.3	1330.6
55°	1278.5	1255.3	1232.2	1217.7	1214.9
57.5°	1159.9	1139.6	1116.5	1104.9	1104.9
60°	1058.7	1032.6	1012.4	997.9	997.9
62.5°	943.0	919.8	899.6	890.9	888.0
65°	833.0	815.7	792.5	783.9	783.9
67.5°	723.1	708.7	688.4	679.7	682.6
70°	616.1	607.4	593.0	581.4	578.5
72.5°	517.8	506.2	491.7	488.8	488.8
75°	425.2	410.7	399.2	393.4	402.1
77.5°	329.7	321.1	315.3	312.4	315.3
80°	245.9	234.3	231.4	234.3	234.3
82.5°	170.7	164.9	162.0	162.0	162.0
85°	95.5	95.5	92.6	89.7	86.8
87.5°	37.6	37.6	40.5	40.5	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)