

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: P601506

Luminaire Tested: 22CGSB-70-L930

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601506  
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-L930  
Description: 2x2 CGSB AT 7000lm 3000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

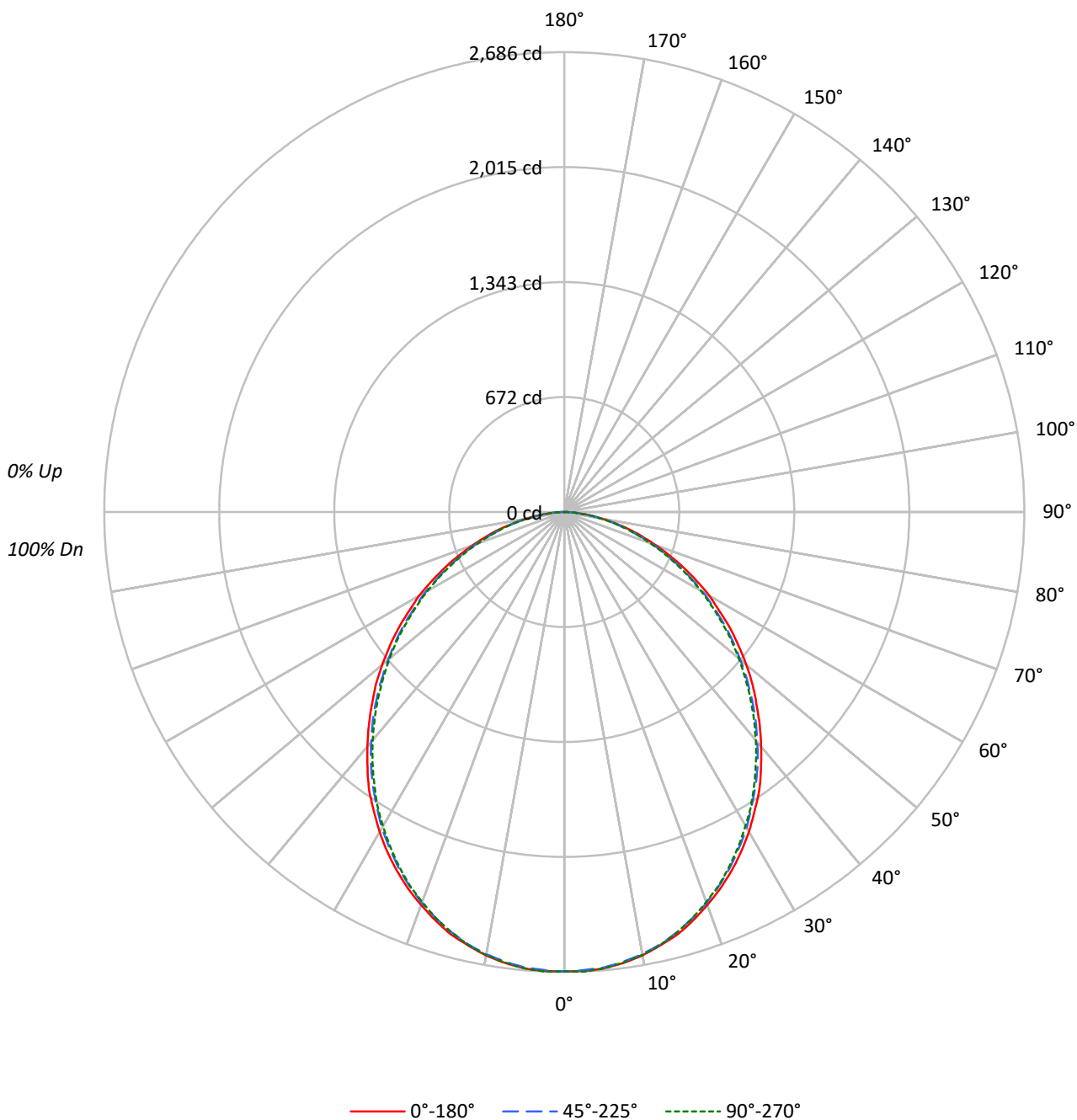
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6705.0 lumens  
Efficiency: N/A  
Efficacy: 106.4 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

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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°	7220	7220	7220
5°	7226	7212	7226
10°	7186	7164	7179
15°	7118	7080	7080
20°	6995	6957	6941
25°	6864	6800	6777
30°	6701	6618	6577
35°	6523	6400	6356
40°	6281	6158	6112
45°	6041	5899	5848
50°	5807	5617	5572
55°	5542	5341	5266
60°	5264	5034	4962
65°	4901	4663	4611
70°	4478	4311	4205
75°	4085	3834	3863
80°	3521	3313	3355
85°	2723	2640	2476

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6041 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.5	3.8
10°-20°	716.7	10.7
20°-30°	1055.5	15.7
30°-40°	1221.0	18.2
40°-50°	1200.4	17.9
50°-60°	1023.0	15.3
60°-70°	733.0	10.9
70°-80°	398.1	5.9
80°-90°	103.9	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°	2025.6	30.2
0°-40°	3246.6	48.4
0°-60°	5470.0	81.6
0°-90°	6705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6705.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2683	2683	2683	2683	2683	
5°	2675	2670	2670	2670	2675	254
15°	2555	2544	2542	2539	2542	719
25°	2312	2301	2290	2285	2282	1064
35°	1986	1970	1948	1938	1935	1238
45°	1588	1577	1550	1537	1537	1226
55°	1181	1160	1138	1125	1122	1055
65°	770	754	732	724	724	762
75°	393	380	369	364	372	415
85°	88	88	86	83	80	107
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2683.2	2683.2	2683.2	2683.2	2683.2
2.5°	2683.2	2680.5	2677.8	2680.5	2685.8
5°	2675.2	2669.8	2669.8	2669.8	2675.2
7.5°	2656.4	2651.1	2648.4	2651.1	2653.8
10°	2629.7	2624.4	2621.7	2624.4	2627.1
12.5°	2592.3	2589.6	2587.0	2587.0	2589.6
15°	2554.9	2544.2	2541.5	2538.9	2541.5
17.5°	2501.4	2498.8	2488.1	2488.1	2488.1
20°	2442.7	2437.3	2429.3	2423.9	2423.9
22.5°	2381.2	2375.8	2362.5	2357.1	2359.8
25°	2311.7	2301.0	2290.3	2285.0	2282.3
27.5°	2236.9	2226.2	2210.1	2202.1	2202.1
30°	2156.7	2148.7	2130.0	2119.3	2116.6
32.5°	2068.5	2063.2	2036.4	2031.1	2031.1
35°	1985.7	1969.6	1948.2	1937.6	1934.9
37.5°	1886.8	1876.1	1854.7	1841.3	1838.7
40°	1787.9	1774.5	1753.1	1742.5	1739.8
42.5°	1689.0	1675.6	1654.3	1640.9	1638.2
45°	1587.5	1576.8	1550.0	1536.7	1536.7
47.5°	1491.2	1469.9	1445.8	1435.1	1432.5
50°	1387.0	1368.3	1341.6	1330.9	1330.9
52.5°	1282.8	1269.4	1240.0	1234.7	1229.3
55°	1181.2	1159.9	1138.5	1125.1	1122.4
57.5°	1071.7	1053.0	1031.6	1020.9	1020.9
60°	978.1	954.1	935.4	922.0	922.0
62.5°	871.2	849.9	831.1	823.1	820.5
65°	769.7	753.6	732.3	724.2	724.2
67.5°	668.1	654.8	636.1	628.0	630.7
70°	569.2	561.2	547.9	537.2	534.5
72.5°	478.4	467.7	454.3	451.6	451.6
75°	392.9	379.5	368.8	363.5	371.5
77.5°	304.7	296.6	291.3	288.6	291.3
80°	227.2	216.5	213.8	216.5	216.5
82.5°	157.7	152.3	149.7	149.7	149.7
85°	88.2	88.2	85.5	82.8	80.2
87.5°	34.7	34.7	37.4	37.4	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)