

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: P601496

Luminaire Tested: 22CGSB-60-L840

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601496  
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-60-L840  
Description: 2x2 CGSB AT 6000lm 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

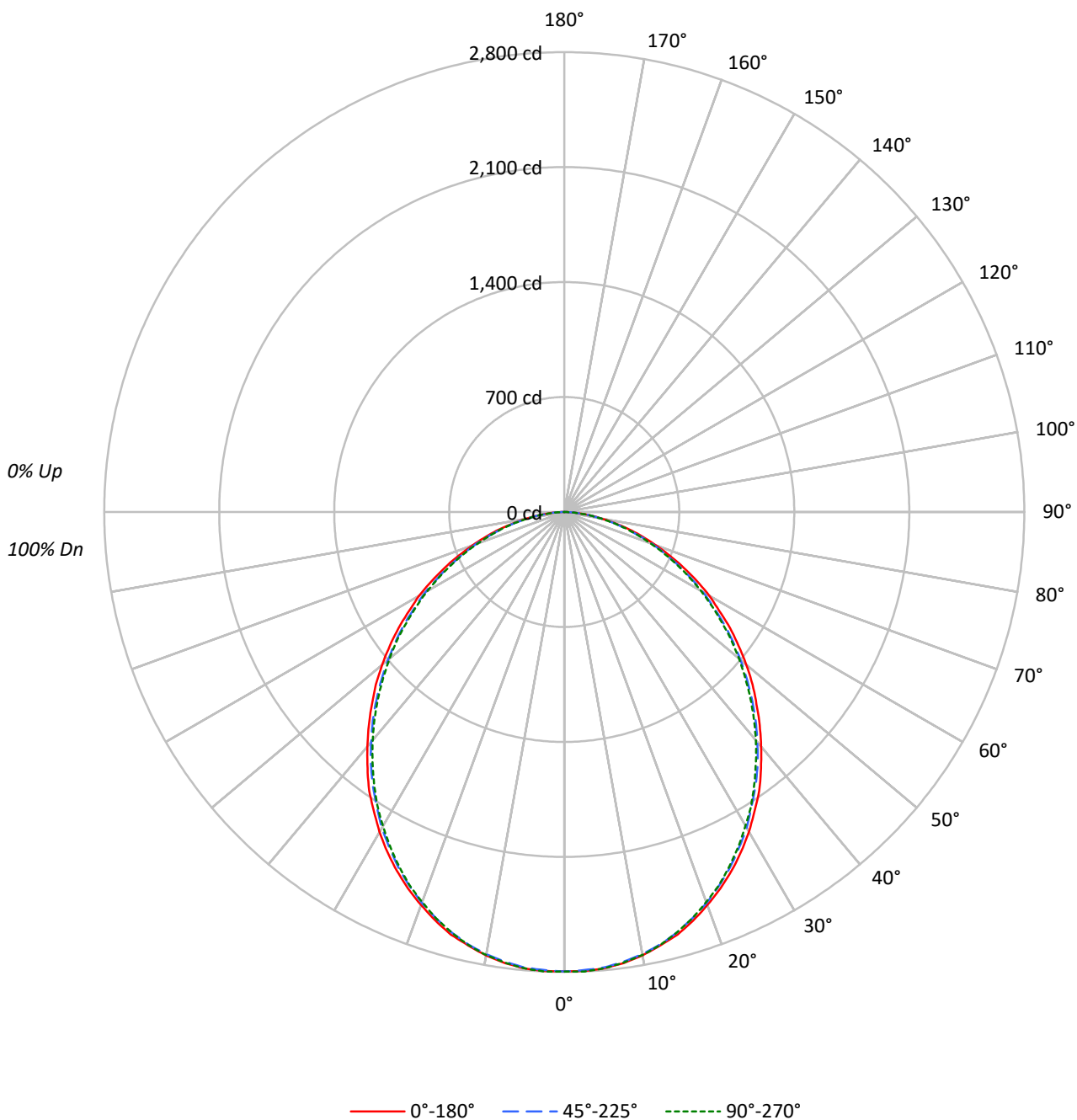
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6990.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 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): 53.6  
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°	7527	7527	7527
5°	7534	7518	7534
10°	7491	7468	7483
15°	7420	7382	7382
20°	7292	7252	7237
25°	7156	7089	7065
30°	6986	6900	6857
35°	6800	6672	6626
40°	6548	6420	6371
45°	6298	6149	6097
50°	6054	5855	5809
55°	5777	5568	5490
60°	5488	5248	5173
65°	5109	4861	4807
70°	4669	4493	4384
75°	4259	3998	4027
80°	3670	3454	3498
85°	2837	2754	2581

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6298 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.2	3.8
10°-20°	747.1	10.7
20°-30°	1100.4	15.7
30°-40°	1272.9	18.2
40°-50°	1251.4	17.9
50°-60°	1066.5	15.3
60°-70°	764.2	10.9
70°-80°	415.0	5.9
80°-90°	108.3	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°	2111.7	30.2
0°-40°	3384.6	48.4
0°-60°	5702.5	81.6
0°-90°	6990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2797	2797	2797	2797	2797	
5°	2789	2783	2783	2783	2789	265
15°	2664	2652	2650	2647	2650	750
25°	2410	2399	2388	2382	2379	1109
35°	2070	2053	2031	2020	2017	1291
45°	1655	1644	1616	1602	1602	1278
55°	1231	1209	1187	1173	1170	1100
65°	802	786	763	755	755	795
75°	410	396	384	379	387	433
85°	92	92	89	86	84	112
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2797.2	2797.2	2797.2	2797.2	2797.2
2.5°	2797.2	2794.4	2791.7	2794.4	2800.0
5°	2788.9	2783.3	2783.3	2783.3	2788.9
7.5°	2769.4	2763.8	2761.0	2763.8	2766.6
10°	2741.5	2735.9	2733.1	2735.9	2738.7
12.5°	2702.5	2699.7	2696.9	2696.9	2699.7
15°	2663.5	2652.3	2649.6	2646.8	2649.6
17.5°	2607.8	2605.0	2593.8	2593.8	2593.8
20°	2546.5	2540.9	2532.5	2527.0	2527.0
22.5°	2482.4	2476.8	2462.9	2457.3	2460.1
25°	2410.0	2398.8	2387.7	2382.1	2379.3
27.5°	2331.9	2320.8	2304.1	2295.7	2295.7
30°	2248.4	2240.0	2220.5	2209.4	2206.6
32.5°	2156.4	2150.9	2123.0	2117.4	2117.4
35°	2070.1	2053.3	2031.1	2019.9	2017.1
37.5°	1967.0	1955.8	1933.5	1919.6	1916.8
40°	1863.9	1850.0	1827.7	1816.5	1813.7
42.5°	1760.8	1746.9	1724.6	1710.7	1707.9
45°	1654.9	1643.8	1615.9	1602.0	1602.0
47.5°	1554.6	1532.3	1507.3	1496.1	1493.3
50°	1446.0	1426.5	1398.6	1387.5	1387.5
52.5°	1337.3	1323.4	1292.7	1287.2	1281.6
55°	1231.4	1209.2	1186.9	1172.9	1170.2
57.5°	1117.2	1097.7	1075.4	1064.3	1064.3
60°	1019.7	994.6	975.1	961.2	961.2
62.5°	908.3	886.0	866.5	858.1	855.3
65°	802.4	785.7	763.4	755.0	755.0
67.5°	696.5	682.6	663.1	654.7	657.5
70°	593.4	585.1	571.1	560.0	557.2
72.5°	498.7	487.6	473.6	470.8	470.8
75°	409.6	395.6	384.5	378.9	387.3
77.5°	317.6	309.3	303.7	300.9	303.7
80°	236.8	225.7	222.9	225.7	225.7
82.5°	164.4	158.8	156.0	156.0	156.0
85°	91.9	91.9	89.2	86.4	83.6
87.5°	36.2	36.2	39.0	39.0	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)