

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: P601502

Luminaire Tested: 22CGSB-70-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601502
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-L830
Description: 2x2 CGSB AT 7000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

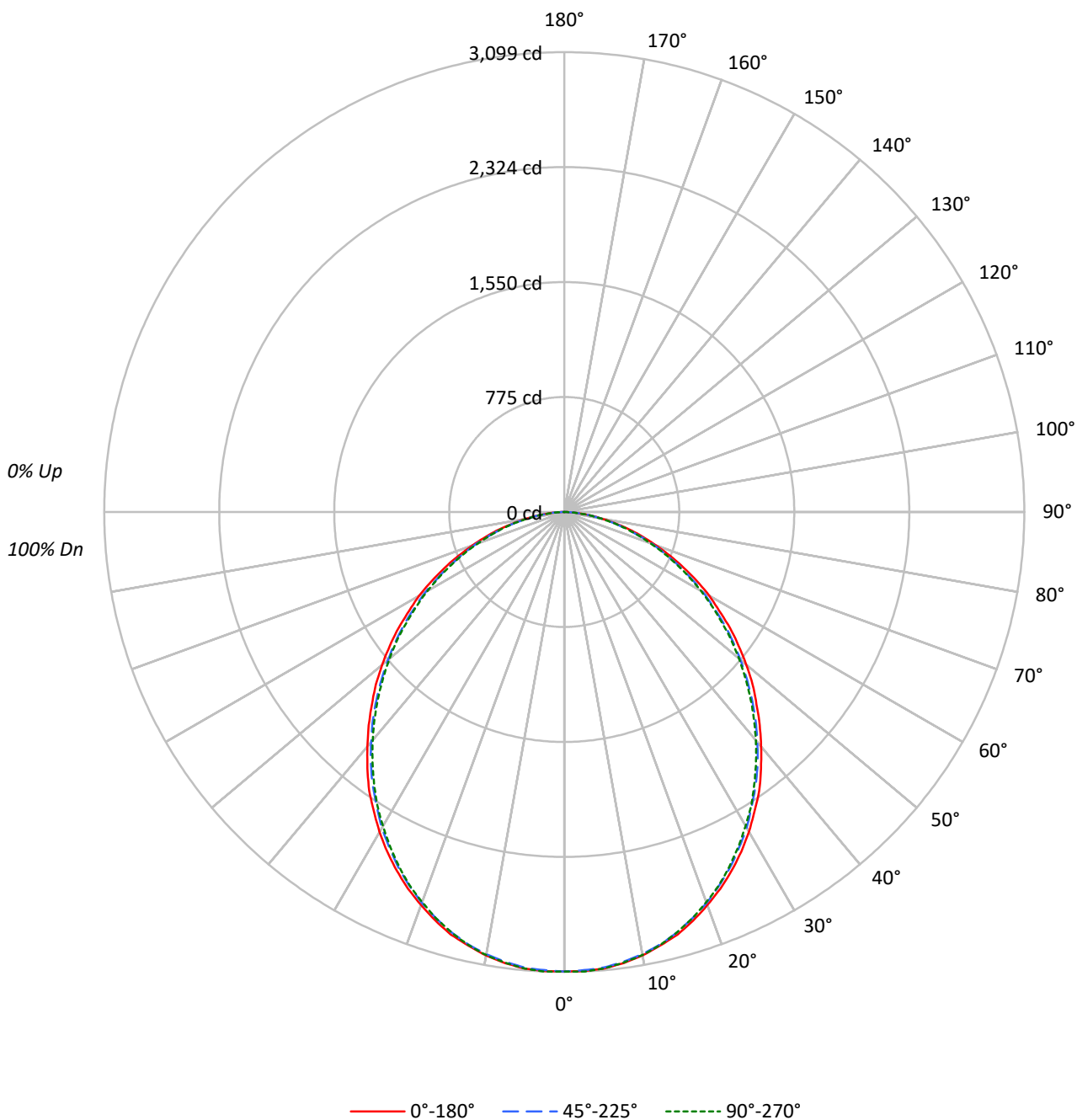
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7737.0 lumens
Efficiency: N/A
Efficacy: 122.8 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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CATALOG NUMBER: 22CGSB-70-L830

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°	8332	8332	8332
5°	8339	8322	8339
10°	8292	8266	8283
15°	8213	8170	8170
20°	8072	8027	8010
25°	7920	7847	7820
30°	7733	7637	7589
35°	7527	7385	7335
40°	7247	7106	7052
45°	6971	6807	6748
50°	6700	6481	6429
55°	6395	6163	6077
60°	6075	5809	5726
65°	5655	5380	5321
70°	5168	4974	4853
75°	4713	4425	4457
80°	4062	3823	3871
85°	3143	3047	2856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6971 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	3.8
10°-20°	827.0	10.7
20°-30°	1218.0	15.7
30°-40°	1409.0	18.2
40°-50°	1385.2	17.9
50°-60°	1180.5	15.3
60°-70°	845.8	10.9
70°-80°	459.4	5.9
80°-90°	119.9	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°	2337.4	30.2
0°-40°	3746.3	48.4
0°-60°	6312.0	81.6
0°-90°	7737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3096	3096	3096	3096	3096	
5°	3087	3081	3081	3081	3087	293
15°	2948	2936	2933	2930	2933	830
25°	2668	2655	2643	2637	2634	1228
35°	2291	2273	2248	2236	2233	1429
45°	1832	1820	1789	1773	1773	1415
55°	1363	1338	1314	1298	1295	1217
65°	888	870	845	836	836	880
75°	453	438	426	419	429	479
85°	102	102	99	96	92	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3096.2	3096.2	3096.2	3096.2	3096.2
2.5°	3096.2	3093.1	3090.0	3093.1	3099.2
5°	3086.9	3080.7	3080.7	3080.7	3086.9
7.5°	3065.3	3059.1	3056.1	3059.1	3062.2
10°	3034.5	3028.3	3025.2	3028.3	3031.4
12.5°	2991.3	2988.2	2985.1	2985.1	2988.2
15°	2948.1	2935.8	2932.7	2929.6	2932.7
17.5°	2886.5	2883.4	2871.0	2871.0	2871.0
20°	2818.6	2812.4	2803.2	2797.0	2797.0
22.5°	2747.7	2741.5	2726.1	2719.9	2723.0
25°	2667.5	2655.2	2642.8	2636.7	2633.6
27.5°	2581.2	2568.8	2550.3	2541.1	2541.1
30°	2488.6	2479.4	2457.8	2445.5	2442.4
32.5°	2386.9	2380.7	2349.9	2343.7	2343.7
35°	2291.3	2272.8	2248.1	2235.8	2232.7
37.5°	2177.2	2164.8	2140.2	2124.8	2121.7
40°	2063.1	2047.7	2023.0	2010.7	2007.6
42.5°	1949.0	1933.6	1908.9	1893.5	1890.4
45°	1831.8	1819.5	1788.6	1773.2	1773.2
47.5°	1720.8	1696.1	1668.3	1656.0	1652.9
50°	1600.5	1578.9	1548.1	1535.7	1535.7
52.5°	1480.2	1464.8	1430.9	1424.7	1418.6
55°	1363.0	1338.4	1313.7	1298.3	1295.2
57.5°	1236.6	1215.0	1190.4	1178.0	1178.0
60°	1128.7	1100.9	1079.3	1063.9	1063.9
62.5°	1005.3	980.7	959.1	949.8	946.7
65°	888.1	869.6	845.0	835.7	835.7
67.5°	771.0	755.5	733.9	724.7	727.8
70°	656.9	647.6	632.2	619.8	616.8
72.5°	552.0	539.7	524.2	521.2	521.2
75°	453.3	437.9	425.6	419.4	428.7
77.5°	351.6	342.3	336.1	333.1	336.1
80°	262.1	249.8	246.7	249.8	249.8
82.5°	181.9	175.8	172.7	172.7	172.7
85°	101.8	101.8	98.7	95.6	92.5
87.5°	40.1	40.1	43.2	43.2	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)