

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: P601510

Luminaire Tested: 22CGSB-80-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601510
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-80-L830
Description: 2x2 CGSB AT 8000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

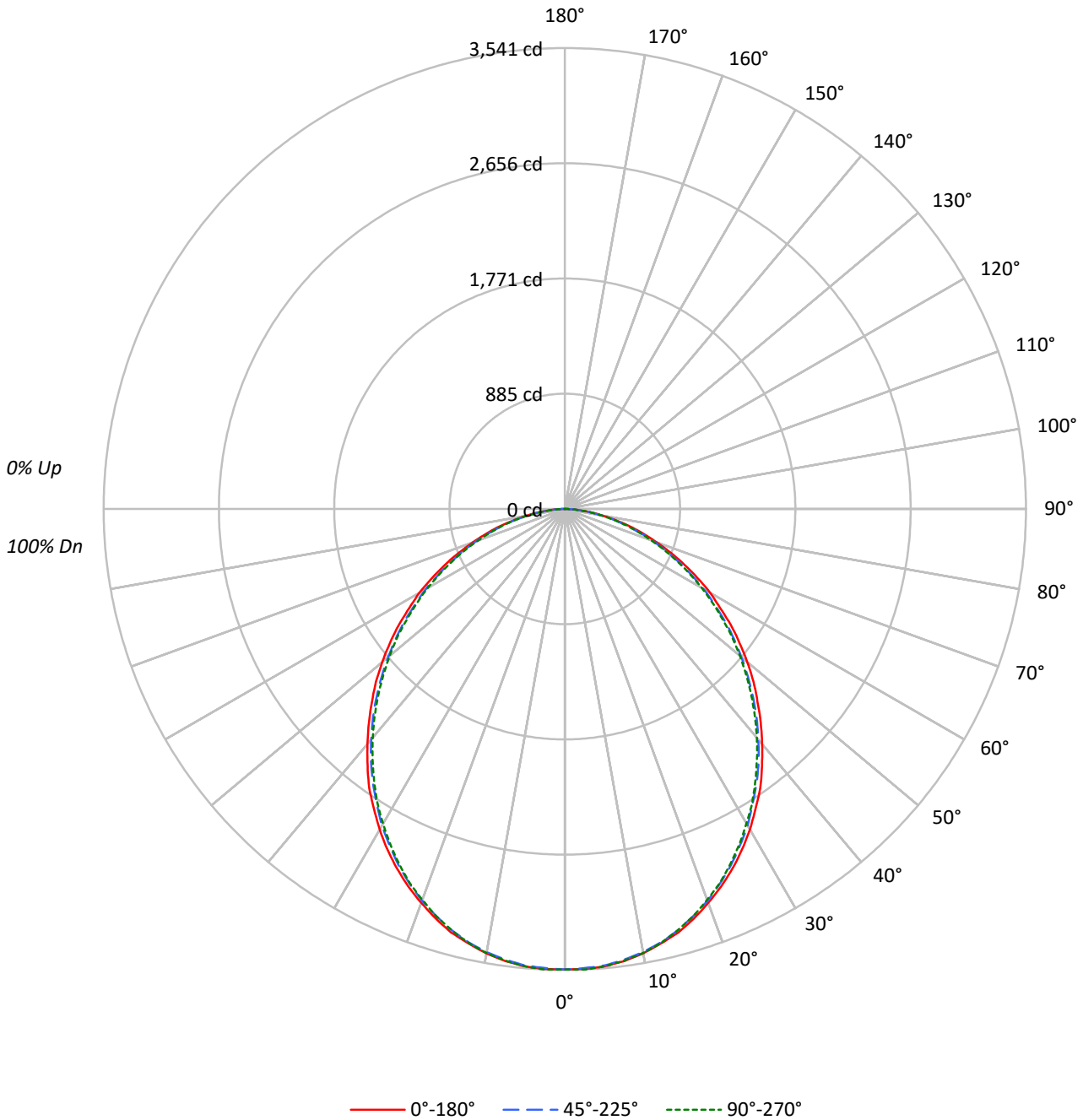
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8840.0 lumens
Efficiency: N/A
Efficacy: 121.8 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): 72.6
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	
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°	9519	9519	9519
5°	9527	9508	9527
10°	9474	9445	9464
15°	9384	9335	9335
20°	9222	9172	9152
25°	9049	8966	8934
30°	8835	8726	8671
35°	8600	8438	8380
40°	8280	8120	8058
45°	7965	7777	7710
50°	7656	7405	7346
55°	7307	7042	6943
60°	6941	6637	6542
65°	6462	6147	6080
70°	5905	5683	5545
75°	5385	5055	5093
80°	4641	4369	4423
85°	3591	3483	3264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7965 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.2	3.8
10°-20°	944.9	10.7
20°-30°	1391.6	15.7
30°-40°	1609.8	18.2
40°-50°	1582.6	17.9
50°-60°	1348.8	15.3
60°-70°	966.4	10.9
70°-80°	524.9	5.9
80°-90°	136.9	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°	2670.6	30.2
0°-40°	4280.4	48.4
0°-60°	7211.8	81.6
0°-90°	8840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3538	3538	3538	3538	3538	
5°	3527	3520	3520	3520	3527	335
15°	3368	3354	3351	3347	3351	948
25°	3048	3034	3020	3013	3009	1403
35°	2618	2597	2569	2554	2551	1633
45°	2093	2079	2044	2026	2026	1617
55°	1557	1529	1501	1483	1480	1391
65°	1015	994	965	955	955	1005
75°	518	500	486	479	490	547
85°	116	116	113	109	106	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3537.5	3537.5	3537.5	3537.5	3537.5
2.5°	3537.5	3534.0	3530.5	3534.0	3541.1
5°	3527.0	3519.9	3519.9	3519.9	3527.0
7.5°	3502.3	3495.3	3491.7	3495.3	3498.8
10°	3467.1	3460.0	3456.5	3460.0	3463.6
12.5°	3417.8	3414.2	3410.7	3410.7	3414.2
15°	3368.4	3354.3	3350.8	3347.3	3350.8
17.5°	3298.0	3294.4	3280.3	3280.3	3280.3
20°	3220.4	3213.4	3202.8	3195.8	3195.8
22.5°	3139.4	3132.4	3114.7	3107.7	3111.2
25°	3047.8	3033.7	3019.6	3012.6	3009.0
27.5°	2949.1	2935.0	2913.9	2903.3	2903.3
30°	2843.4	2832.9	2808.2	2794.1	2790.6
32.5°	2727.2	2720.1	2684.9	2677.8	2677.8
35°	2617.9	2596.8	2568.6	2554.5	2551.0
37.5°	2487.6	2473.5	2445.3	2427.7	2424.1
40°	2357.2	2339.6	2311.4	2297.3	2293.8
42.5°	2226.8	2209.2	2181.0	2163.4	2159.9
45°	2092.9	2078.8	2043.6	2026.0	2026.0
47.5°	1966.1	1937.9	1906.2	1892.1	1888.6
50°	1828.7	1804.0	1768.8	1754.7	1754.7
52.5°	1691.3	1673.6	1634.9	1627.8	1620.8
55°	1557.4	1529.2	1501.0	1483.4	1479.9
57.5°	1412.9	1388.2	1360.1	1346.0	1346.0
60°	1289.6	1257.9	1233.2	1215.6	1215.6
62.5°	1148.6	1120.5	1095.8	1085.2	1081.7
65°	1014.8	993.6	965.4	954.9	954.9
67.5°	880.9	863.2	838.6	828.0	831.5
70°	750.5	739.9	722.3	708.2	704.7
72.5°	630.7	616.6	599.0	595.5	595.5
75°	517.9	500.3	486.2	479.2	489.8
77.5°	401.7	391.1	384.1	380.5	384.1
80°	299.5	285.4	281.9	285.4	285.4
82.5°	207.9	200.8	197.3	197.3	197.3
85°	116.3	116.3	112.8	109.2	105.7
87.5°	45.8	45.8	49.3	49.3	52.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)