

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: P601514

Luminaire Tested: 22CGSB-80-L930

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601514
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-L930
Description: 2x2 CGSB AT 8000lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

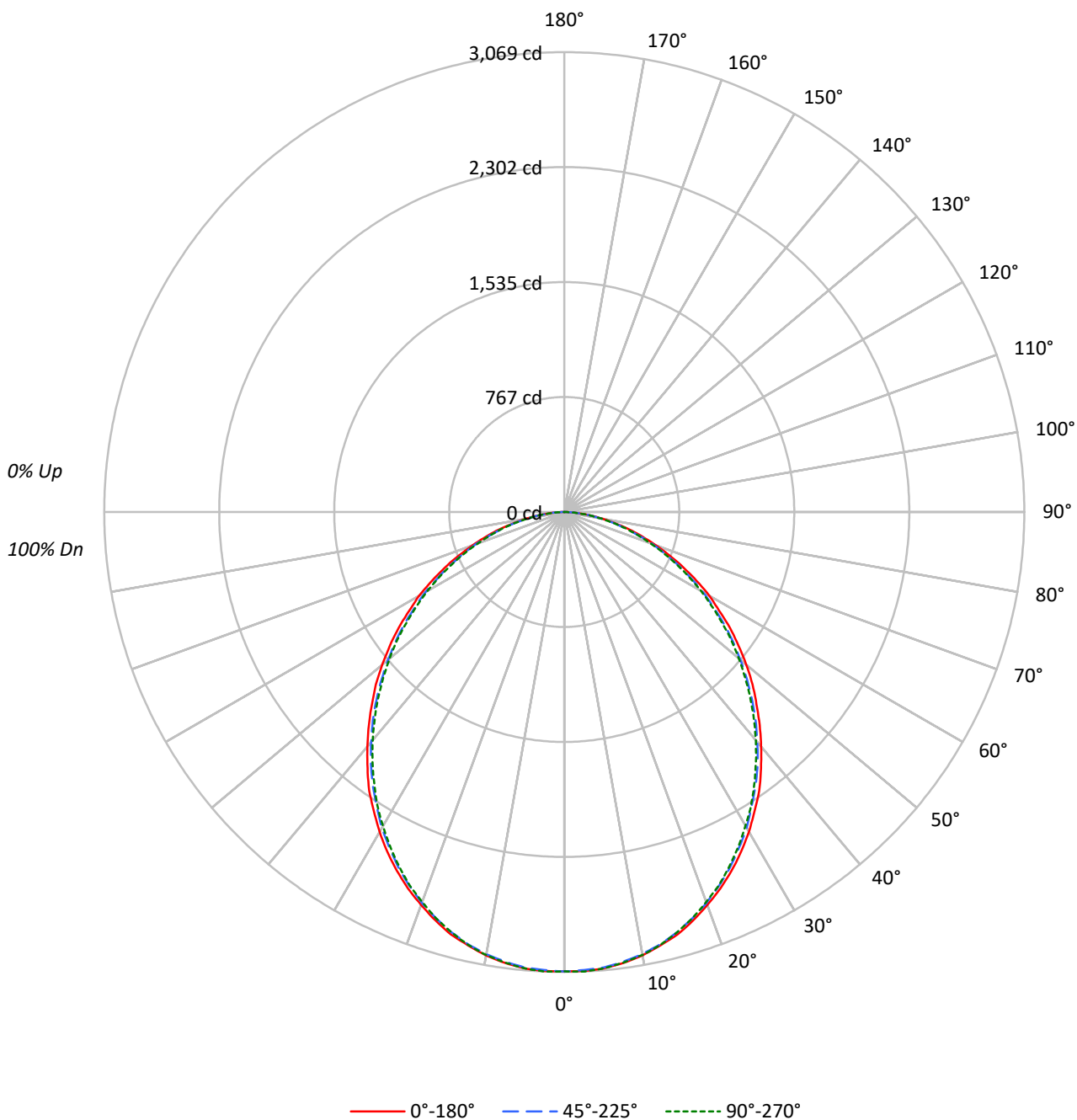
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7661.0 lumens
Efficiency: N/A
Efficacy: 105.5 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°	8250	8250	8250
5°	8257	8240	8257
10°	8210	8185	8202
15°	8133	8090	8090
20°	7992	7949	7931
25°	7842	7770	7743
30°	7657	7562	7515
35°	7453	7313	7263
40°	7176	7037	6983
45°	6903	6740	6682
50°	6635	6417	6366
55°	6332	6103	6017
60°	6015	5752	5670
65°	5599	5328	5269
70°	5117	4925	4805
75°	4667	4381	4413
80°	4021	3786	3832
85°	3112	3017	2828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6903 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	3.8
10°-20°	818.8	10.7
20°-30°	1206.0	15.7
30°-40°	1395.1	18.2
40°-50°	1371.6	17.9
50°-60°	1168.9	15.3
60°-70°	837.5	10.9
70°-80°	454.9	5.9
80°-90°	118.7	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°	2314.4	30.2
0°-40°	3709.5	48.4
0°-60°	6249.9	81.6
0°-90°	7661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3066	3066	3066	3066	3066	
5°	3057	3050	3050	3050	3057	290
15°	2919	2907	2904	2901	2904	822
25°	2641	2629	2617	2611	2608	1216
35°	2269	2250	2226	2214	2211	1415
45°	1814	1802	1771	1756	1756	1401
55°	1350	1325	1301	1286	1282	1205
65°	879	861	837	828	828	871
75°	449	434	421	415	424	474
85°	101	101	98	95	92	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3065.7	3065.7	3065.7	3065.7	3065.7
2.5°	3065.7	3062.7	3059.6	3062.7	3068.8
5°	3056.6	3050.5	3050.5	3050.5	3056.6
7.5°	3035.2	3029.1	3026.0	3029.1	3032.2
10°	3004.7	2998.6	2995.5	2998.6	3001.6
12.5°	2961.9	2958.9	2955.8	2955.8	2958.9
15°	2919.2	2907.0	2903.9	2900.9	2903.9
17.5°	2858.1	2855.0	2842.8	2842.8	2842.8
20°	2790.9	2784.8	2775.7	2769.5	2769.5
22.5°	2720.7	2714.6	2699.3	2693.2	2696.3
25°	2641.3	2629.1	2616.9	2610.8	2607.7
27.5°	2555.8	2543.6	2525.3	2516.1	2516.1
30°	2464.2	2455.0	2433.7	2421.4	2418.4
32.5°	2363.4	2357.3	2326.8	2320.7	2320.7
35°	2268.8	2250.4	2226.0	2213.8	2210.8
37.5°	2155.8	2143.6	2119.1	2103.9	2100.8
40°	2042.8	2027.5	2003.1	1990.9	1987.8
42.5°	1929.8	1914.6	1890.1	1874.9	1871.8
45°	1813.8	1801.6	1771.0	1755.8	1755.8
47.5°	1703.9	1679.4	1652.0	1639.7	1636.7
50°	1584.8	1563.4	1532.9	1520.7	1520.7
52.5°	1465.7	1450.4	1416.8	1410.7	1404.6
55°	1349.7	1325.2	1300.8	1285.5	1282.5
57.5°	1224.5	1203.1	1178.7	1166.4	1166.4
60°	1117.6	1090.1	1068.7	1053.5	1053.5
62.5°	995.4	971.0	949.6	940.5	937.4
65°	879.4	861.1	836.7	827.5	827.5
67.5°	763.4	748.1	726.7	717.6	720.6
70°	650.4	641.2	626.0	613.8	610.7
72.5°	546.6	534.4	519.1	516.0	516.0
75°	448.9	433.6	421.4	415.3	424.4
77.5°	348.1	338.9	332.8	329.8	332.8
80°	259.5	247.3	244.3	247.3	247.3
82.5°	180.2	174.1	171.0	171.0	171.0
85°	100.8	100.8	97.7	94.7	91.6
87.5°	39.7	39.7	42.7	42.7	45.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)