

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: P601516

Luminaire Tested: 22CGSB-80-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601516
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-L940
Description: 2x2 CGSB AT 8000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

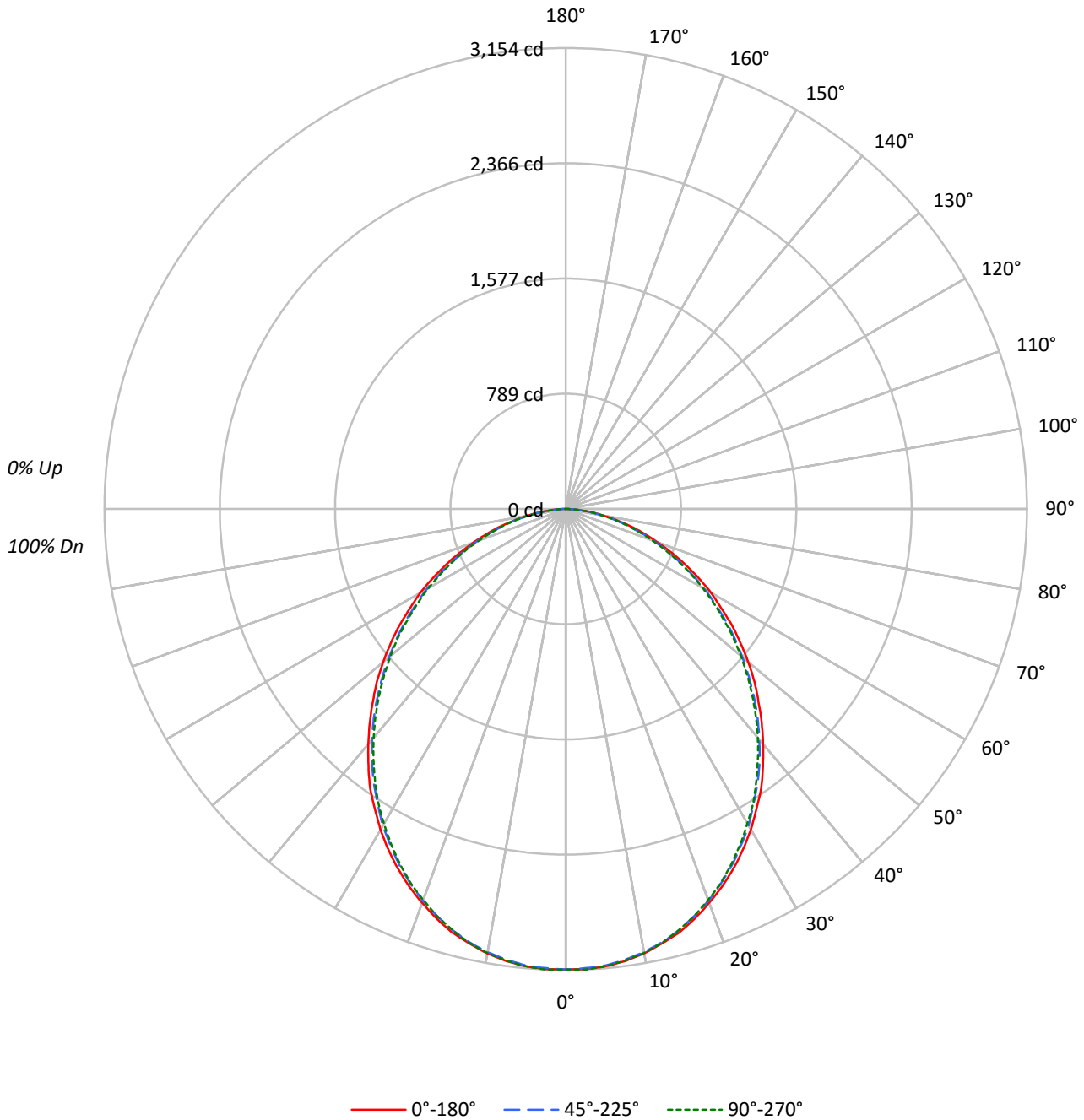
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7874.0 lumens
Efficiency: N/A
Efficacy: 108.5 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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°	8479	8479	8479
5°	8486	8469	8486
10°	8438	8413	8430
15°	8359	8315	8315
20°	8214	8170	8152
25°	8060	7986	7958
30°	7870	7772	7723
35°	7660	7516	7464
40°	7376	7232	7177
45°	7094	6927	6868
50°	6819	6596	6543
55°	6508	6273	6184
60°	6182	5912	5828
65°	5755	5475	5415
70°	5260	5062	4939
75°	4796	4503	4535
80°	4135	3891	3939
85°	3199	3100	2908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7094 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	3.8
10°-20°	841.6	10.7
20°-30°	1239.5	15.7
30°-40°	1433.9	18.2
40°-50°	1409.7	17.9
50°-60°	1201.4	15.3
60°-70°	860.8	10.9
70°-80°	467.5	5.9
80°-90°	122.0	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°	2378.8	30.2
0°-40°	3812.7	48.4
0°-60°	6423.7	81.6
0°-90°	7874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3151	3151	3151	3151	3151	
5°	3142	3135	3135	3135	3142	298
15°	3000	2988	2985	2982	2985	844
25°	2715	2702	2690	2683	2680	1250
35°	2332	2313	2288	2275	2272	1454
45°	1864	1852	1820	1805	1805	1440
55°	1387	1362	1337	1321	1318	1239
65°	904	885	860	850	850	895
75°	461	446	433	427	436	487
85°	104	104	100	97	94	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3151.0	3151.0	3151.0	3151.0	3151.0
2.5°	3151.0	3147.8	3144.7	3147.8	3154.1
5°	3141.6	3135.3	3135.3	3135.3	3141.6
7.5°	3119.6	3113.3	3110.2	3113.3	3116.5
10°	3088.2	3081.9	3078.8	3081.9	3085.1
12.5°	3044.3	3041.1	3038.0	3038.0	3041.1
15°	3000.3	2987.8	2984.6	2981.5	2984.6
17.5°	2937.6	2934.4	2921.9	2921.9	2921.9
20°	2868.5	2862.2	2852.8	2846.6	2846.6
22.5°	2796.3	2790.1	2774.4	2768.1	2771.2
25°	2714.7	2702.2	2689.6	2683.4	2680.2
27.5°	2626.9	2614.3	2595.5	2586.1	2586.1
30°	2532.7	2523.3	2501.3	2488.8	2485.6
32.5°	2429.1	2422.9	2391.5	2385.2	2385.2
35°	2331.8	2313.0	2287.9	2275.4	2272.2
37.5°	2215.7	2203.2	2178.1	2162.4	2159.2
40°	2099.6	2083.9	2058.8	2046.3	2043.1
42.5°	1983.5	1967.8	1942.7	1927.0	1923.9
45°	1864.2	1851.7	1820.3	1804.6	1804.6
47.5°	1751.2	1726.1	1697.9	1685.3	1682.2
50°	1628.8	1606.9	1575.5	1562.9	1562.9
52.5°	1506.4	1490.8	1456.2	1450.0	1443.7
55°	1387.2	1362.1	1337.0	1321.3	1318.1
57.5°	1258.5	1236.5	1211.4	1198.9	1198.9
60°	1148.7	1120.4	1098.4	1082.8	1082.8
62.5°	1023.1	998.0	976.1	966.6	963.5
65°	903.9	885.0	859.9	850.5	850.5
67.5°	784.6	768.9	746.9	737.5	740.7
70°	668.5	659.1	643.4	630.8	627.7
72.5°	561.8	549.2	533.5	530.4	530.4
75°	461.3	445.7	433.1	426.8	436.2
77.5°	357.8	348.4	342.1	338.9	342.1
80°	266.8	254.2	251.1	254.2	254.2
82.5°	185.2	178.9	175.8	175.8	175.8
85°	103.6	103.6	100.4	97.3	94.2
87.5°	40.8	40.8	43.9	43.9	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)