

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: P601517

Luminaire Tested: 22CGSB-80-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601517
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-L950
Description: 2x2 CGSB AT 8000lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

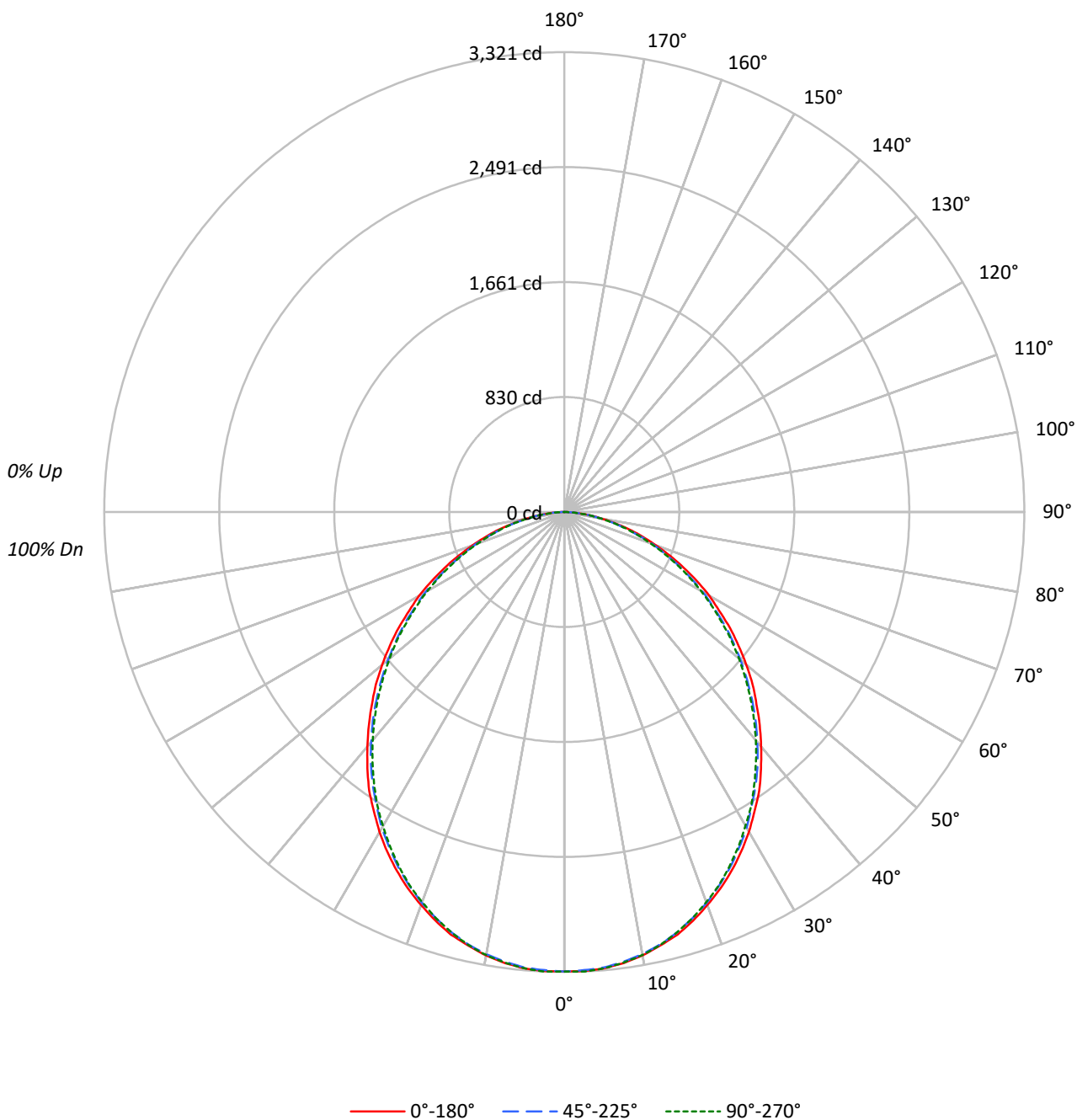
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8291.0 lumens
Efficiency: N/A
Efficacy: 114.2 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°	8928	8928	8928
5°	8935	8918	8935
10°	8886	8858	8876
15°	8801	8755	8755
20°	8649	8602	8583
25°	8487	8409	8380
30°	8286	8184	8133
35°	8066	7914	7860
40°	7766	7615	7557
45°	7470	7294	7231
50°	7180	6945	6890
55°	6853	6605	6511
60°	6509	6225	6136
65°	6060	5766	5703
70°	5538	5330	5200
75°	5051	4741	4775
80°	4353	4097	4148
85°	3369	3264	3060

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7470 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	3.8
10°-20°	886.2	10.7
20°-30°	1305.2	15.7
30°-40°	1509.8	18.2
40°-50°	1484.3	17.9
50°-60°	1265.0	15.3
60°-70°	906.4	10.9
70°-80°	492.3	5.9
80°-90°	128.4	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°	2504.8	30.2
0°-40°	4014.6	48.4
0°-60°	6763.9	81.6
0°-90°	8291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3318	3318	3318	3318	3318	
5°	3308	3301	3301	3301	3308	314
15°	3159	3146	3143	3139	3143	889
25°	2858	2845	2832	2826	2822	1316
35°	2455	2436	2409	2396	2393	1531
45°	1963	1950	1917	1900	1900	1516
55°	1461	1434	1408	1391	1388	1304
65°	952	932	906	896	896	943
75°	486	469	456	449	459	513
85°	109	109	106	102	99	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3317.9	3317.9	3317.9	3317.9	3317.9
2.5°	3317.9	3314.5	3311.2	3314.5	3321.2
5°	3307.9	3301.3	3301.3	3301.3	3307.9
7.5°	3284.8	3278.2	3274.9	3278.2	3281.5
10°	3251.8	3245.2	3241.8	3245.2	3248.5
12.5°	3205.5	3202.2	3198.9	3198.9	3202.2
15°	3159.2	3146.0	3142.7	3139.4	3142.7
17.5°	3093.1	3089.8	3076.6	3076.6	3076.6
20°	3020.4	3013.8	3003.9	2997.3	2997.3
22.5°	2944.4	2937.8	2921.3	2914.7	2918.0
25°	2858.5	2845.3	2832.1	2825.5	2822.2
27.5°	2766.0	2752.8	2732.9	2723.0	2723.0
30°	2666.8	2656.9	2633.8	2620.6	2617.3
32.5°	2557.8	2551.2	2518.1	2511.5	2511.5
35°	2455.3	2435.5	2409.1	2395.9	2392.6
37.5°	2333.1	2319.9	2293.4	2276.9	2273.6
40°	2210.8	2194.3	2167.8	2154.6	2151.3
42.5°	2088.5	2072.0	2045.6	2029.0	2025.7
45°	1963.0	1949.7	1916.7	1900.2	1900.2
47.5°	1844.0	1817.5	1787.8	1774.6	1771.3
50°	1715.1	1692.0	1658.9	1645.7	1645.7
52.5°	1586.2	1569.7	1533.3	1526.7	1520.1
55°	1460.6	1434.2	1407.8	1391.3	1387.9
57.5°	1325.2	1302.0	1275.6	1262.4	1262.4
60°	1209.5	1179.8	1156.6	1140.1	1140.1
62.5°	1077.3	1050.9	1027.7	1017.8	1014.5
65°	951.7	931.9	905.5	895.6	895.6
67.5°	826.2	809.6	786.5	776.6	779.9
70°	703.9	694.0	677.4	664.2	660.9
72.5°	591.5	578.3	561.8	558.5	558.5
75°	485.8	469.3	456.0	449.4	459.3
77.5°	376.7	366.8	360.2	356.9	360.2
80°	280.9	267.7	264.4	267.7	267.7
82.5°	195.0	188.4	185.1	185.1	185.1
85°	109.1	109.1	105.7	102.4	99.1
87.5°	43.0	43.0	46.3	46.3	49.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)