

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: P601503

Luminaire Tested: 22CGSB-70-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601503
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-L835
Description: 2x2 CGSB AT 7000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

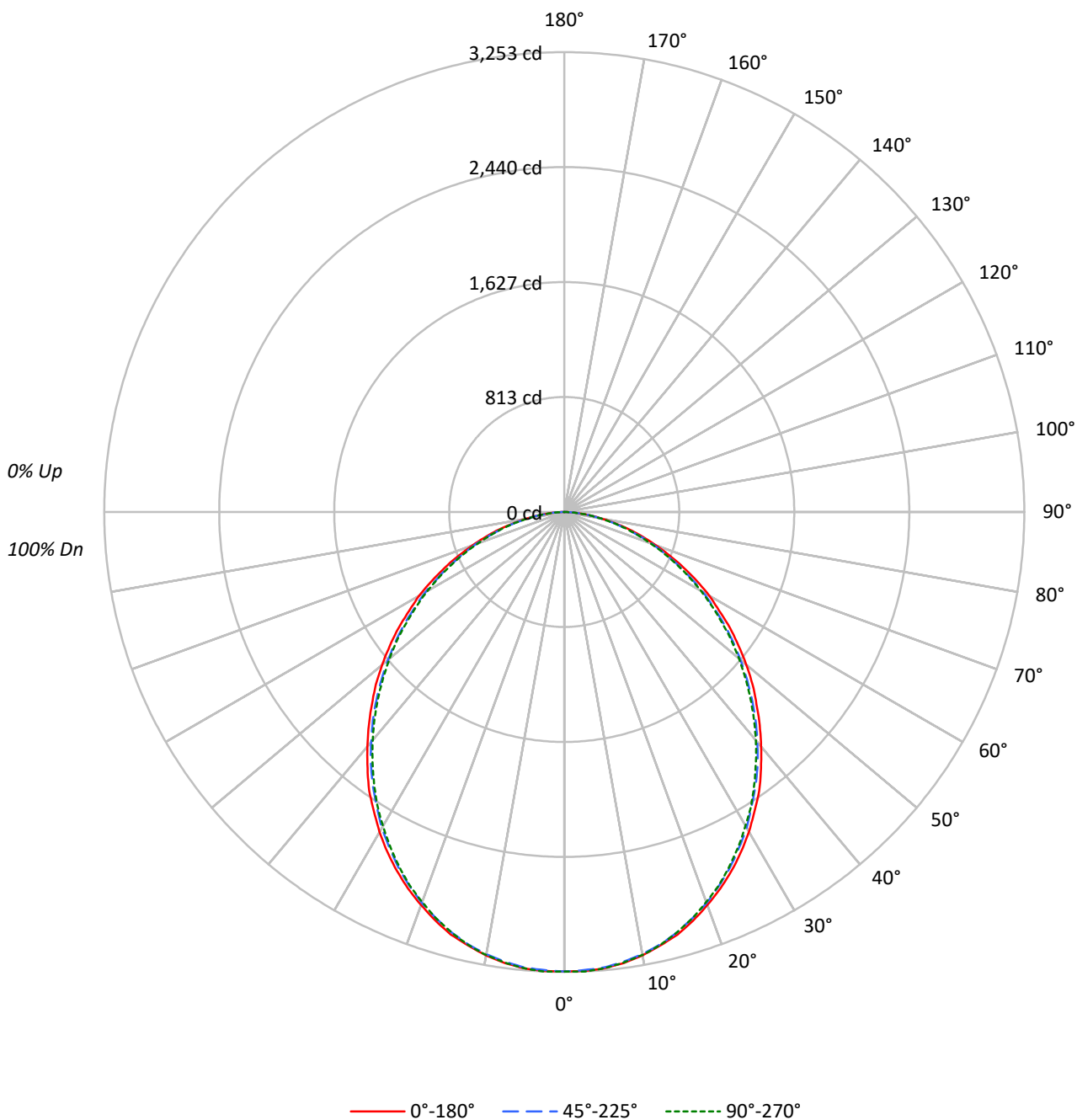
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8121.0 lumens
Efficiency: N/A
Efficacy: 128.9 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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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°	8745	8745	8745
5°	8752	8735	8752
10°	8703	8677	8694
15°	8621	8576	8576
20°	8472	8426	8407
25°	8313	8236	8208
30°	8117	8016	7966
35°	7901	7752	7699
40°	7607	7459	7402
45°	7317	7145	7083
50°	7033	6803	6749
55°	6712	6469	6378
60°	6376	6097	6010
65°	5936	5647	5585
70°	5425	5221	5094
75°	4947	4644	4678
80°	4263	4012	4063
85°	3298	3199	2998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7317 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.0	3.8
10°-20°	868.0	10.7
20°-30°	1278.4	15.7
30°-40°	1478.9	18.2
40°-50°	1453.9	17.9
50°-60°	1239.0	15.3
60°-70°	887.8	10.9
70°-80°	482.2	5.9
80°-90°	125.8	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°	2453.4	30.2
0°-40°	3932.3	48.4
0°-60°	6625.2	81.6
0°-90°	8121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3250	3250	3250	3250	3250	
5°	3240	3234	3234	3234	3240	307
15°	3094	3082	3078	3075	3078	871
25°	2800	2787	2774	2768	2764	1289
35°	2405	2386	2360	2347	2344	1500
45°	1923	1910	1877	1861	1861	1485
55°	1431	1405	1379	1363	1360	1277
65°	932	913	887	877	877	923
75°	476	460	447	440	450	503
85°	107	107	104	100	97	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3249.8	3249.8	3249.8	3249.8	3249.8
2.5°	3249.8	3246.6	3243.3	3246.6	3253.1
5°	3240.1	3233.6	3233.6	3233.6	3240.1
7.5°	3217.5	3211.0	3207.7	3211.0	3214.2
10°	3185.1	3178.6	3175.4	3178.6	3181.8
12.5°	3139.8	3136.5	3133.3	3133.3	3136.5
15°	3094.5	3081.5	3078.3	3075.0	3078.3
17.5°	3029.7	3026.5	3013.5	3013.5	3013.5
20°	2958.5	2952.0	2942.3	2935.8	2935.8
22.5°	2884.1	2877.6	2861.4	2854.9	2858.2
25°	2799.9	2786.9	2774.0	2767.5	2764.3
27.5°	2709.3	2696.3	2676.9	2667.2	2667.2
30°	2612.2	2602.4	2579.8	2566.8	2563.6
32.5°	2505.3	2498.9	2466.5	2460.0	2460.0
35°	2405.0	2385.6	2359.7	2346.7	2343.5
37.5°	2285.2	2272.3	2246.4	2230.2	2227.0
40°	2165.5	2149.3	2123.4	2110.4	2107.2
42.5°	2045.7	2029.5	2003.6	1987.4	1984.2
45°	1922.7	1909.8	1877.4	1861.2	1861.2
47.5°	1806.2	1780.3	1751.1	1738.2	1735.0
50°	1679.9	1657.3	1624.9	1612.0	1612.0
52.5°	1553.7	1537.5	1501.9	1495.4	1489.0
55°	1430.7	1404.8	1378.9	1362.7	1359.5
57.5°	1298.0	1275.3	1249.4	1236.5	1236.5
60°	1184.7	1155.6	1132.9	1116.7	1116.7
62.5°	1055.2	1029.3	1006.7	997.0	993.7
65°	932.2	912.8	886.9	877.2	877.2
67.5°	809.2	793.0	770.4	760.7	763.9
70°	689.5	679.7	663.6	650.6	647.4
72.5°	579.4	566.5	550.3	547.0	547.0
75°	475.8	459.6	446.7	440.2	449.9
77.5°	369.0	359.3	352.8	349.6	352.8
80°	275.1	262.2	258.9	262.2	262.2
82.5°	191.0	184.5	181.3	181.3	181.3
85°	106.8	106.8	103.6	100.3	97.1
87.5°	42.1	42.1	45.3	45.3	48.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)