

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: P601438

Luminaire Tested: 22CGSB-25-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601438
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-25-L830
Description: 2x2 CGSB AT 2500lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

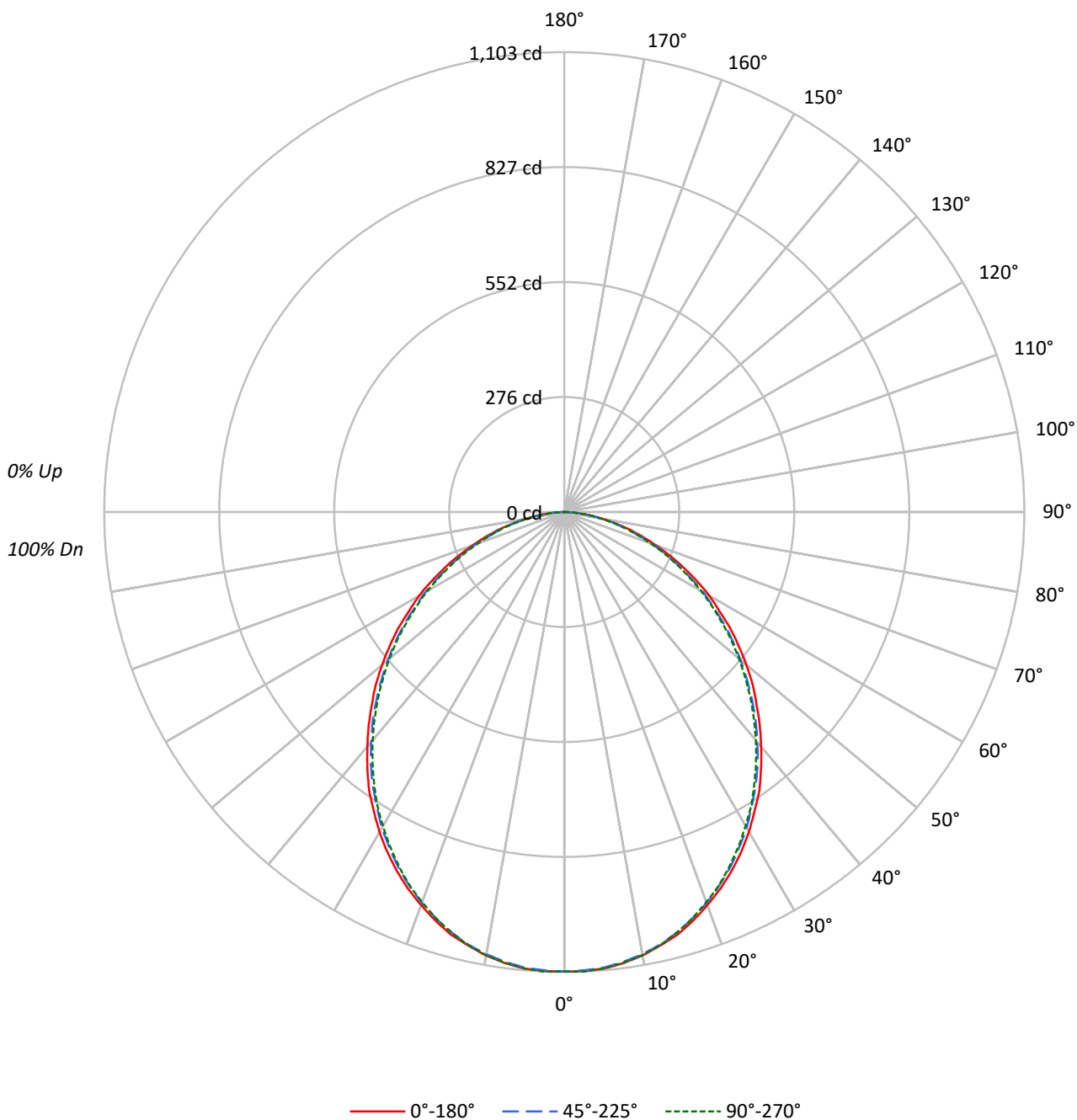
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2754.0 lumens
Efficiency: N/A
Efficacy: 135.0 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): 20.4
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°	2966	2966	2966
5°	2968	2962	2968
10°	2951	2942	2948
15°	2924	2908	2908
20°	2873	2857	2851
25°	2819	2793	2783
30°	2752	2719	2701
35°	2679	2629	2611
40°	2580	2530	2510
45°	2481	2423	2402
50°	2385	2307	2289
55°	2276	2194	2163
60°	2162	2068	2038
65°	2013	1915	1894
70°	1840	1770	1727
75°	1678	1575	1587
80°	1446	1361	1378
85°	1118	1084	1016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.8
10°-20°	294.4	10.7
20°-30°	433.5	15.7
30°-40°	501.5	18.2
40°-50°	493.1	17.9
50°-60°	420.2	15.3
60°-70°	301.1	10.9
70°-80°	163.5	5.9
80°-90°	42.7	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°	832.0	30.2
0°-40°	1333.5	48.4
0°-60°	2246.8	81.6
0°-90°	2754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1099	1097	1097	1097	1099	104
15°	1049	1045	1044	1043	1044	295
25°	950	945	941	938	937	437
35°	816	809	800	796	795	509
45°	652	648	637	631	631	504
55°	485	476	468	462	461	433
65°	316	310	301	298	298	313
75°	161	156	152	149	153	170
85°	36	36	35	34	33	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.1	1102.1	1102.1	1102.1	1102.1
2.5°	1102.1	1101.0	1099.9	1101.0	1103.2
5°	1098.8	1096.6	1096.6	1096.6	1098.8
7.5°	1091.1	1088.9	1087.8	1088.9	1090.0
10°	1080.1	1077.9	1076.8	1077.9	1079.0
12.5°	1064.8	1063.7	1062.6	1062.6	1063.7
15°	1049.4	1045.0	1043.9	1042.8	1043.9
17.5°	1027.4	1026.3	1022.0	1022.0	1022.0
20°	1003.3	1001.1	997.8	995.6	995.6
22.5°	978.0	975.8	970.4	968.2	969.3
25°	949.5	945.1	940.7	938.5	937.4
27.5°	918.8	914.4	907.8	904.5	904.5
30°	885.8	882.5	874.9	870.5	869.4
32.5°	849.6	847.4	836.4	834.2	834.2
35°	815.6	809.0	800.2	795.8	794.7
37.5°	775.0	770.6	761.8	756.3	755.2
40°	734.4	728.9	720.1	715.7	714.6
42.5°	693.7	688.3	679.5	674.0	672.9
45°	652.0	647.6	636.7	631.2	631.2
47.5°	612.5	603.7	593.9	589.5	588.4
50°	569.7	562.0	551.0	546.7	546.7
52.5°	526.9	521.4	509.3	507.1	504.9
55°	485.2	476.4	467.6	462.1	461.0
57.5°	440.2	432.5	423.7	419.3	419.3
60°	401.8	391.9	384.2	378.7	378.7
62.5°	357.8	349.1	341.4	338.1	337.0
65°	316.1	309.5	300.8	297.5	297.5
67.5°	274.4	268.9	261.3	258.0	259.1
70°	233.8	230.5	225.0	220.6	219.5
72.5°	196.5	192.1	186.6	185.5	185.5
75°	161.4	155.9	151.5	149.3	152.6
77.5°	125.1	121.8	119.6	118.6	119.6
80°	93.3	88.9	87.8	88.9	88.9
82.5°	64.8	62.6	61.5	61.5	61.5
85°	36.2	36.2	35.1	34.0	32.9
87.5°	14.3	14.3	15.4	15.4	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)