

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: P601475

Luminaire Tested: 22CGSB-45-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601475
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-45-L935
Description: 2x2 CGSB AT 4500lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

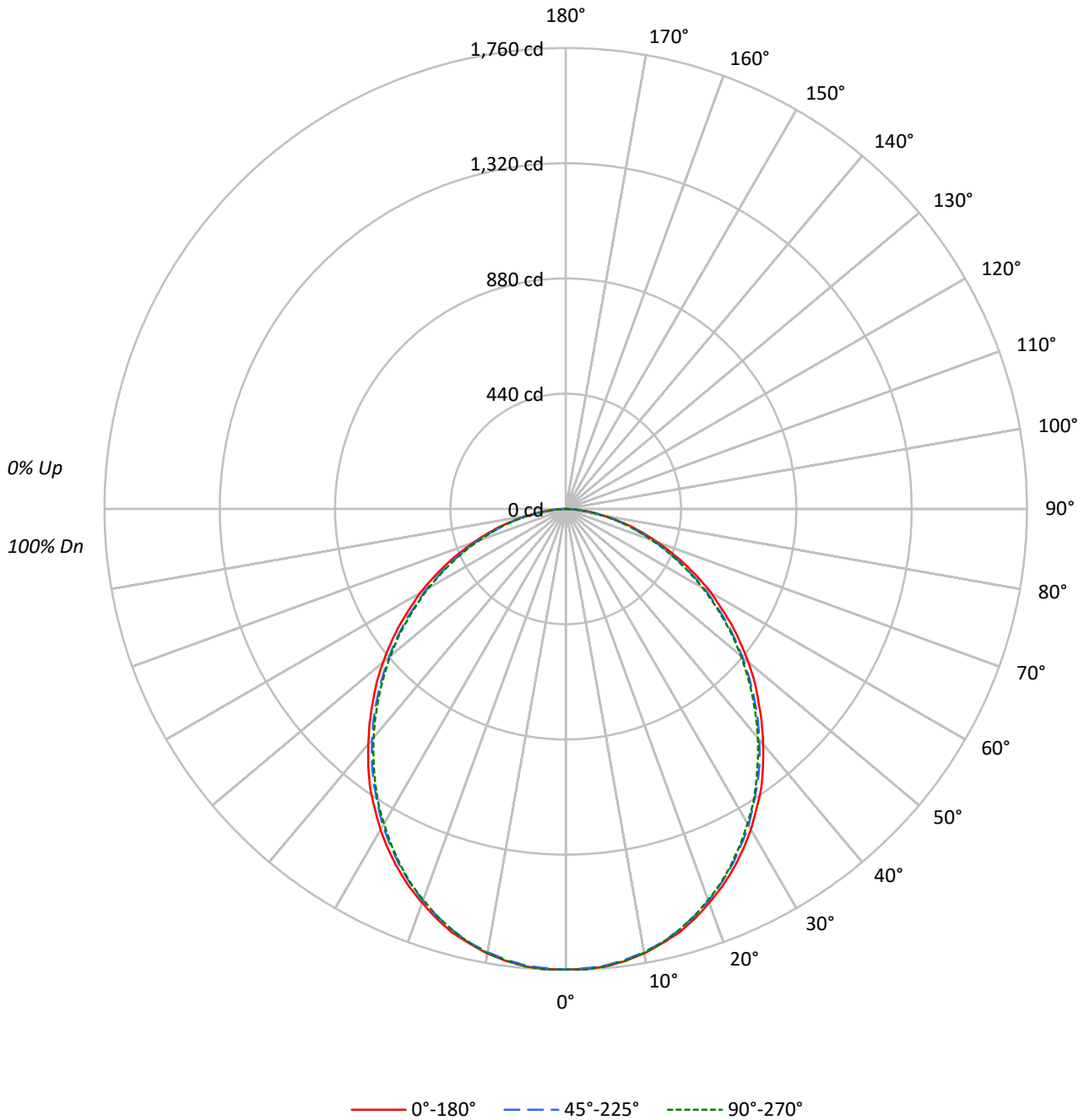
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4394.0 lumens
Efficiency: N/A
Efficacy: 115.0 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): 38.2
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°	4732	4732	4732
5°	4736	4726	4736
10°	4709	4695	4704
15°	4664	4640	4640
20°	4584	4559	4549
25°	4498	4456	4441
30°	4392	4337	4310
35°	4275	4194	4165
40°	4116	4036	4005
45°	3959	3866	3832
50°	3805	3681	3651
55°	3632	3500	3451
60°	3450	3299	3252
65°	3212	3056	3022
70°	2935	2825	2756
75°	2677	2513	2531
80°	2307	2171	2199
85°	1785	1729	1621

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3959 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	3.8
10°-20°	469.6	10.7
20°-30°	691.7	15.7
30°-40°	800.2	18.2
40°-50°	786.7	17.9
50°-60°	670.4	15.3
60°-70°	480.4	10.9
70°-80°	260.9	5.9
80°-90°	68.1	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°	1327.4	30.2
0°-40°	2127.6	48.4
0°-60°	3584.7	81.6
0°-90°	4394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1753	1750	1750	1750	1753	166
15°	1674	1667	1666	1664	1666	471
25°	1515	1508	1501	1497	1496	697
35°	1301	1291	1277	1270	1268	812
45°	1040	1033	1016	1007	1007	804
55°	774	760	746	737	736	691
65°	504	494	480	475	475	500
75°	258	249	242	238	243	272
85°	58	58	56	54	52	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.4	1758.4	1758.4	1758.4	1758.4
2.5°	1758.4	1756.6	1754.9	1756.6	1760.1
5°	1753.1	1749.6	1749.6	1749.6	1753.1
7.5°	1740.9	1737.4	1735.6	1737.4	1739.1
10°	1723.3	1719.8	1718.1	1719.8	1721.6
12.5°	1698.8	1697.1	1695.3	1695.3	1697.1
15°	1674.3	1667.3	1665.5	1663.8	1665.5
17.5°	1639.3	1637.5	1630.5	1630.5	1630.5
20°	1600.7	1597.2	1592.0	1588.5	1588.5
22.5°	1560.5	1557.0	1548.2	1544.7	1546.5
25°	1514.9	1507.9	1500.9	1497.4	1495.7
27.5°	1465.9	1458.9	1448.4	1443.1	1443.1
30°	1413.4	1408.1	1395.8	1388.8	1387.1
32.5°	1355.6	1352.1	1334.5	1331.0	1331.0
35°	1301.3	1290.8	1276.7	1269.7	1268.0
37.5°	1236.5	1229.5	1215.4	1206.7	1204.9
40°	1171.7	1162.9	1148.9	1141.9	1140.1
42.5°	1106.9	1098.1	1084.1	1075.3	1073.6
45°	1040.3	1033.3	1015.8	1007.0	1007.0
47.5°	977.3	963.3	947.5	940.5	938.7
50°	909.0	896.7	879.2	872.2	872.2
52.5°	840.7	831.9	812.6	809.1	805.6
55°	774.1	760.1	746.1	737.3	735.6
57.5°	702.3	690.0	676.0	669.0	669.0
60°	641.0	625.2	613.0	604.2	604.2
62.5°	570.9	556.9	544.7	539.4	537.7
65°	504.4	493.9	479.9	474.6	474.6
67.5°	437.8	429.1	416.8	411.6	413.3
70°	373.0	367.8	359.0	352.0	350.3
72.5°	313.5	306.5	297.7	296.0	296.0
75°	257.5	248.7	241.7	238.2	243.4
77.5°	199.7	194.4	190.9	189.1	190.9
80°	148.9	141.9	140.1	141.9	141.9
82.5°	103.3	99.8	98.1	98.1	98.1
85°	57.8	57.8	56.0	54.3	52.5
87.5°	22.8	22.8	24.5	24.5	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)