

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: P601474

Luminaire Tested: 22CGSB-45-L930

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601474
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-L930
Description: 2x2 CGSB AT 4500lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

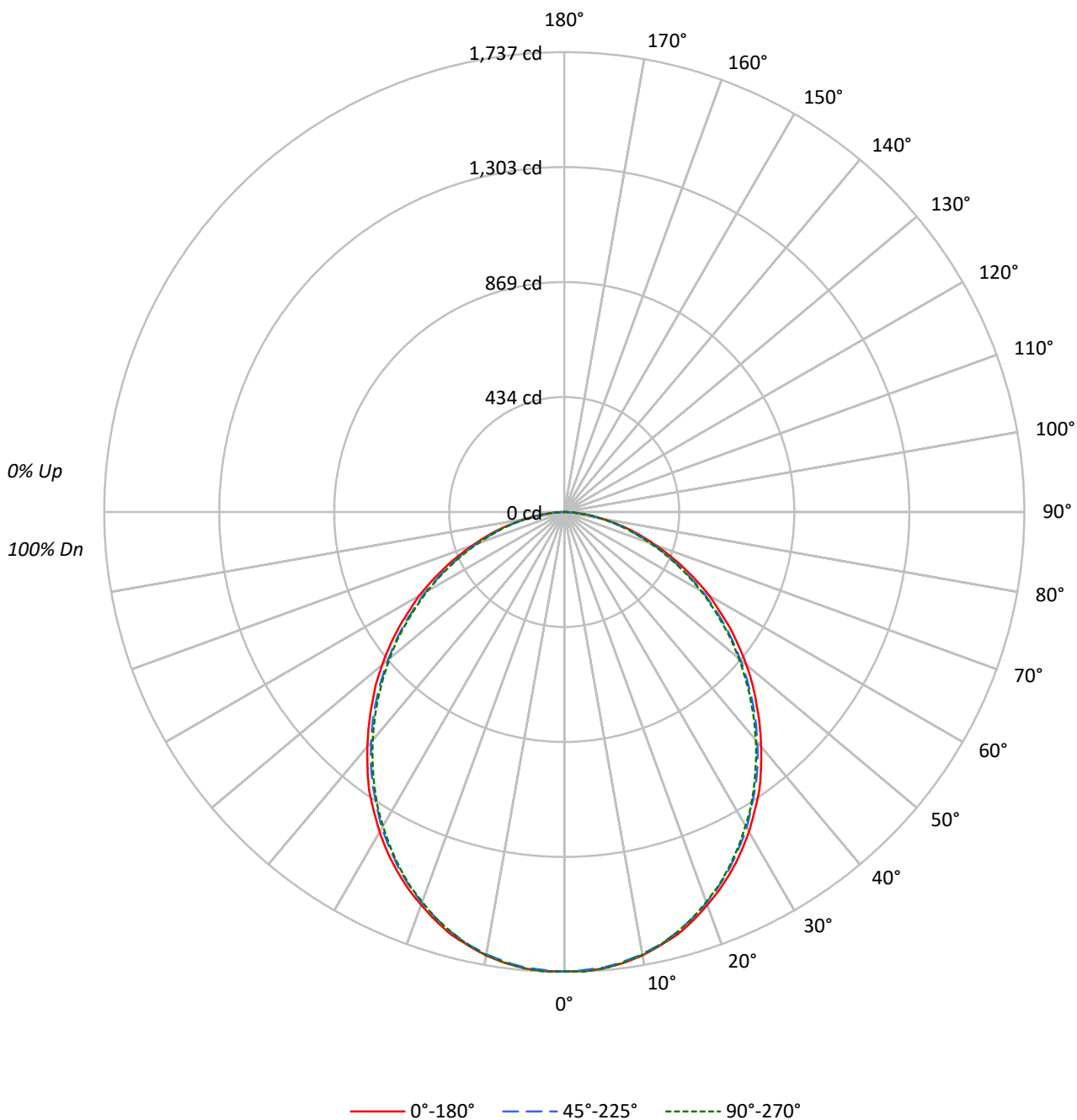
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4336.0 lumens
Efficiency: N/A
Efficacy: 113.5 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): 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

TEST NUMBER: P601474
CATALOG NUMBER: 22CGSB-45-L930

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°	4669	4669	4669
5°	4673	4664	4673
10°	4647	4633	4642
15°	4603	4579	4579
20°	4523	4499	4489
25°	4439	4398	4382
30°	4334	4280	4253
35°	4218	4139	4111
40°	4062	3982	3952
45°	3907	3815	3782
50°	3755	3632	3603
55°	3584	3454	3406
60°	3404	3256	3209
65°	3169	3015	2982
70°	2896	2788	2719
75°	2642	2480	2497
80°	2276	2143	2170
85°	1760	1707	1599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3907 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.8
10°-20°	463.4	10.7
20°-30°	682.6	15.7
30°-40°	789.6	18.2
40°-50°	776.3	17.9
50°-60°	661.6	15.3
60°-70°	474.0	10.9
70°-80°	257.5	5.9
80°-90°	67.2	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°	1309.9	30.2
0°-40°	2099.5	48.4
0°-60°	3537.4	81.6
0°-90°	4336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1730	1726	1726	1726	1730	164
15°	1652	1645	1644	1642	1644	465
25°	1495	1488	1481	1478	1476	688
35°	1284	1274	1260	1253	1251	801
45°	1027	1020	1002	994	994	793
55°	764	750	736	728	726	682
65°	498	487	474	468	468	493
75°	254	245	238	235	240	268
85°	57	57	55	54	52	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735.2	1735.2	1735.2	1735.2	1735.2
2.5°	1735.2	1733.4	1731.7	1733.4	1736.9
5°	1730.0	1726.5	1726.5	1726.5	1730.0
7.5°	1717.9	1714.4	1712.7	1714.4	1716.1
10°	1700.6	1697.1	1695.4	1697.1	1698.9
12.5°	1676.4	1674.7	1672.9	1672.9	1674.7
15°	1652.2	1645.3	1643.6	1641.8	1643.6
17.5°	1617.6	1615.9	1609.0	1609.0	1609.0
20°	1579.6	1576.2	1571.0	1567.5	1567.5
22.5°	1539.9	1536.4	1527.8	1524.3	1526.0
25°	1494.9	1488.0	1481.1	1477.7	1475.9
27.5°	1446.5	1439.6	1429.3	1424.1	1424.1
30°	1394.7	1389.5	1377.4	1370.5	1368.8
32.5°	1337.7	1334.2	1316.9	1313.5	1313.5
35°	1284.1	1273.7	1259.9	1253.0	1251.3
37.5°	1220.1	1213.2	1199.4	1190.8	1189.0
40°	1156.2	1147.6	1133.7	1126.8	1125.1
42.5°	1092.3	1083.6	1069.8	1061.1	1059.4
45°	1026.6	1019.7	1002.4	993.7	993.7
47.5°	964.4	950.5	935.0	928.1	926.3
50°	897.0	884.9	867.6	860.7	860.7
52.5°	829.6	820.9	801.9	798.4	795.0
55°	763.9	750.1	736.2	727.6	725.9
57.5°	693.0	680.9	667.1	660.2	660.2
60°	632.5	617.0	604.9	596.2	596.2
62.5°	563.4	549.6	537.5	532.3	530.6
65°	497.7	487.4	473.5	468.4	468.4
67.5°	432.1	423.4	411.3	406.1	407.9
70°	368.1	362.9	354.3	347.4	345.6
72.5°	309.4	302.4	293.8	292.1	292.1
75°	254.1	245.4	238.5	235.0	240.2
77.5°	197.0	191.8	188.4	186.7	188.4
80°	146.9	140.0	138.3	140.0	140.0
82.5°	102.0	98.5	96.8	96.8	96.8
85°	57.0	57.0	55.3	53.6	51.8
87.5°	22.5	22.5	24.2	24.2	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)