

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: P601477

Luminaire Tested: 22CGSB-45-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601477
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-L950
Description: 2x2 CGSB AT 4500lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

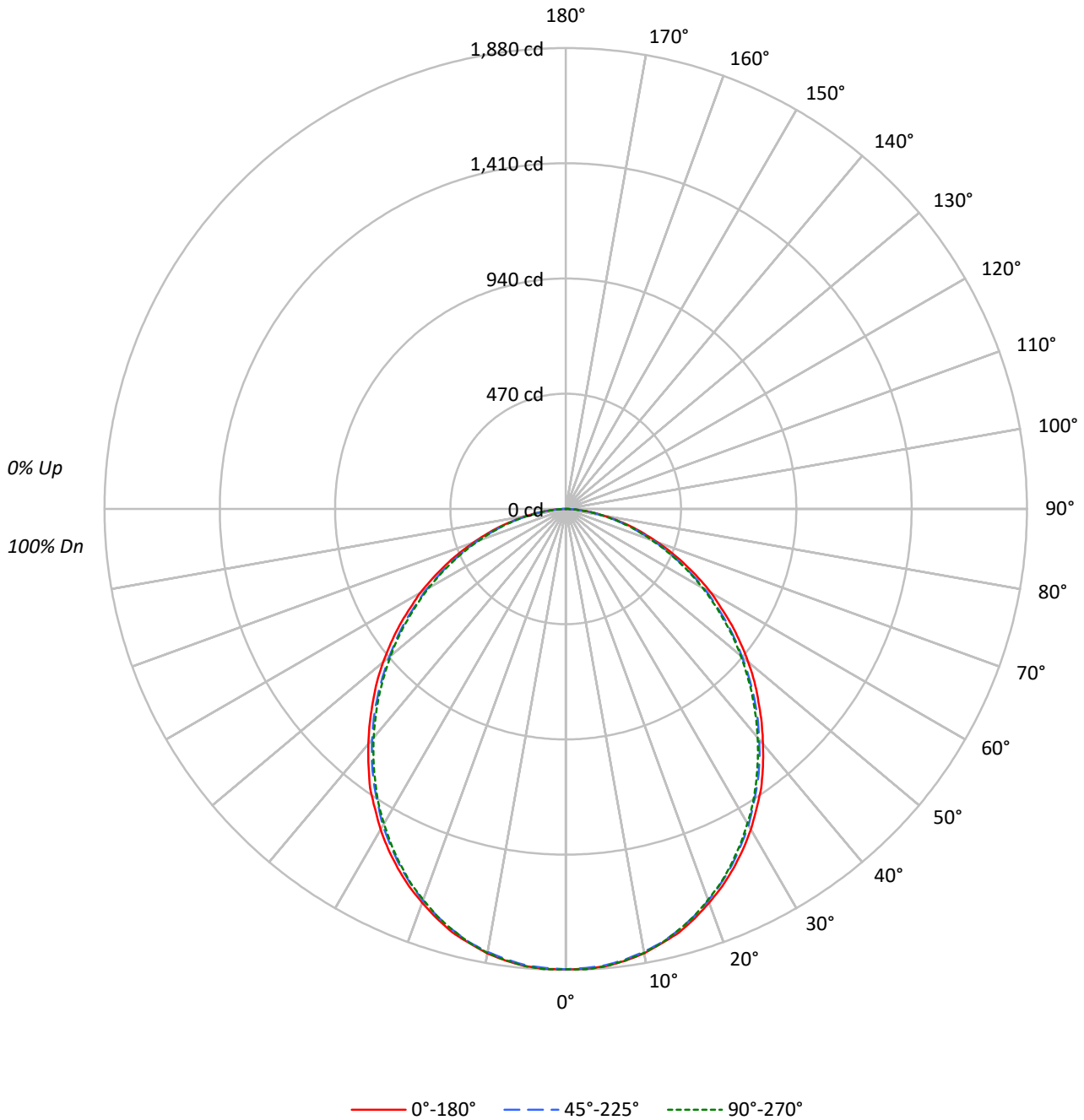
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4692.0 lumens
Efficiency: N/A
Efficacy: 122.8 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: P601477
CATALOG NUMBER: 22CGSB-45-L950

Luminous Intensity Polar Plot





TEST NUMBER: P601477
 CATALOG NUMBER: 22CGSB-45-L950

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°	5053	5053	5053
5°	5057	5047	5057
10°	5028	5013	5023
15°	4981	4955	4955
20°	4895	4868	4857
25°	4803	4759	4742
30°	4689	4631	4602
35°	4565	4479	4448
40°	4395	4310	4277
45°	4228	4128	4092
50°	4063	3930	3899
55°	3878	3738	3685
60°	3684	3522	3472
65°	3429	3263	3227
70°	3134	3017	2943
75°	2858	2684	2702
80°	2464	2318	2348
85°	1905	1846	1732

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4228 cd/sqm



TEST NUMBER: P601477
 CATALOG NUMBER: 22CGSB-45-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	3.8
10°-20°	501.5	10.7
20°-30°	738.6	15.7
30°-40°	854.4	18.2
40°-50°	840.0	17.9
50°-60°	715.9	15.3
60°-70°	512.9	10.9
70°-80°	278.6	5.9
80°-90°	72.7	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°	1417.5	30.2
0°-40°	2271.9	48.4
0°-60°	3827.8	81.6
0°-90°	4692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1872	1868	1868	1868	1872	178
15°	1788	1780	1778	1777	1778	503
25°	1618	1610	1603	1599	1597	745
35°	1390	1378	1363	1356	1354	867
45°	1111	1103	1085	1075	1075	858
55°	827	812	797	787	786	738
65°	539	527	512	507	507	534
75°	275	266	258	254	260	290
85°	62	62	60	58	56	75
90°	0	0	0	0	0	



TEST NUMBER: P601477
 CATALOG NUMBER: 22CGSB-45-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1877.6	1877.6	1877.6	1877.6	1877.6
2.5°	1877.6	1875.8	1873.9	1875.8	1879.5
5°	1872.0	1868.3	1868.3	1868.3	1872.0
7.5°	1858.9	1855.2	1853.3	1855.2	1857.1
10°	1840.2	1836.5	1834.6	1836.5	1838.3
12.5°	1814.0	1812.2	1810.3	1810.3	1812.2
15°	1787.9	1780.4	1778.5	1776.6	1778.5
17.5°	1750.5	1748.6	1741.1	1741.1	1741.1
20°	1709.3	1705.6	1700.0	1696.2	1696.2
22.5°	1666.3	1662.6	1653.2	1649.5	1651.3
25°	1617.7	1610.2	1602.7	1599.0	1597.1
27.5°	1565.3	1557.8	1546.6	1541.0	1541.0
30°	1509.2	1503.6	1490.5	1483.0	1481.2
32.5°	1447.5	1443.7	1425.0	1421.3	1421.3
35°	1389.5	1378.3	1363.3	1355.9	1354.0
37.5°	1320.3	1312.8	1297.9	1288.5	1286.7
40°	1251.1	1241.8	1226.8	1219.3	1217.5
42.5°	1181.9	1172.6	1157.6	1148.3	1146.4
45°	1110.9	1103.4	1084.7	1075.3	1075.3
47.5°	1043.5	1028.6	1011.7	1004.3	1002.4
50°	970.6	957.5	938.8	931.3	931.3
52.5°	897.7	888.3	867.7	864.0	860.3
55°	826.6	811.6	796.7	787.3	785.5
57.5°	749.9	736.8	721.9	714.4	714.4
60°	684.5	667.6	654.5	645.2	645.2
62.5°	609.7	594.7	581.6	576.0	574.1
65°	538.6	527.4	512.4	506.8	506.8
67.5°	467.5	458.2	445.1	439.5	441.4
70°	398.3	392.7	383.4	375.9	374.0
72.5°	334.8	327.3	317.9	316.1	316.1
75°	274.9	265.6	258.1	254.3	259.9
77.5°	213.2	207.6	203.8	202.0	203.8
80°	159.0	151.5	149.6	151.5	151.5
82.5°	110.3	106.6	104.7	104.7	104.7
85°	61.7	61.7	59.8	58.0	56.1
87.5°	24.3	24.3	26.2	26.2	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)