

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: P601473

Luminaire Tested: 22CGSB-45-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601473
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-L850
Description: 2x2 CGSB AT 4500lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

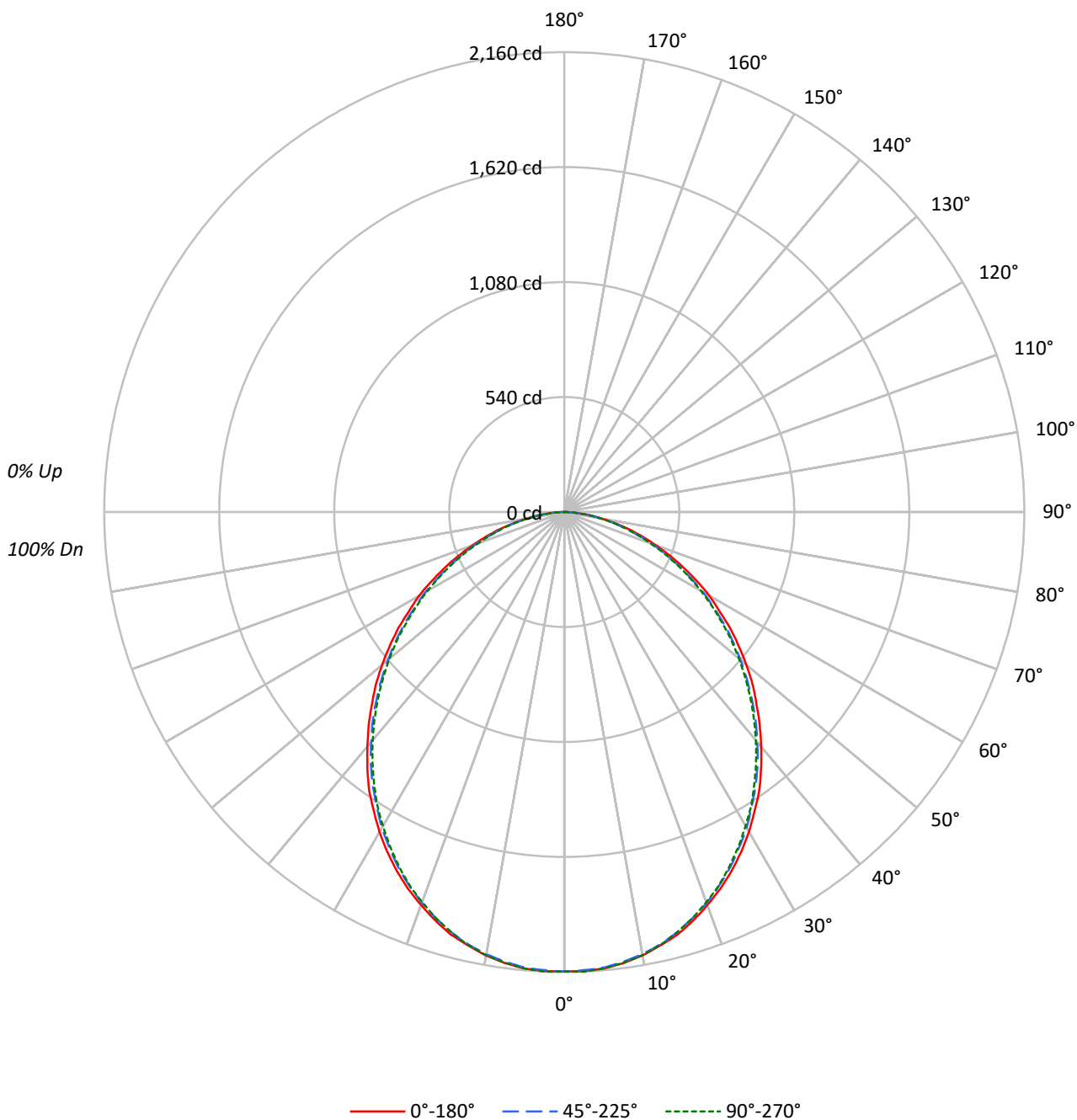
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5393.0 lumens
Efficiency: N/A
Efficacy: 141.2 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: P601473
CATALOG NUMBER: 22CGSB-45-L850

Luminous Intensity Polar Plot





TEST NUMBER: P601473
 CATALOG NUMBER: 22CGSB-45-L850

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°	5807	5807	5807
5°	5812	5801	5812
10°	5780	5762	5774
15°	5725	5695	5695
20°	5626	5595	5583
25°	5521	5470	5450
30°	5390	5323	5290
35°	5247	5148	5113
40°	5051	4953	4916
45°	4859	4744	4704
50°	4670	4518	4482
55°	4457	4296	4236
60°	4234	4049	3991
65°	3942	3750	3709
70°	3603	3467	3382
75°	3285	3084	3107
80°	2831	2665	2698
85°	2189	2124	1991

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4859 cd/sqm



TEST NUMBER: P601473
 CATALOG NUMBER: 22CGSB-45-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	3.8
10°-20°	576.4	10.7
20°-30°	849.0	15.7
30°-40°	982.1	18.2
40°-50°	965.5	17.9
50°-60°	822.8	15.3
60°-70°	589.6	10.9
70°-80°	320.2	5.9
80°-90°	83.5	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°	1629.3	30.2
0°-40°	2611.3	48.4
0°-60°	4399.7	81.6
0°-90°	5393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2152	2147	2147	2147	2152	204
15°	2055	2046	2044	2042	2044	578
25°	1859	1851	1842	1838	1836	856
35°	1597	1584	1567	1558	1556	996
45°	1277	1268	1247	1236	1236	986
55°	950	933	916	905	903	848
65°	619	606	589	582	582	613
75°	316	305	297	292	299	334
85°	71	71	69	67	64	86
90°	0	0	0	0	0	



TEST NUMBER: P601473
 CATALOG NUMBER: 22CGSB-45-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2158.1	2158.1	2158.1	2158.1	2158.1
2.5°	2158.1	2156.0	2153.8	2156.0	2160.3
5°	2151.7	2147.4	2147.4	2147.4	2151.7
7.5°	2136.6	2132.3	2130.2	2132.3	2134.5
10°	2115.2	2110.9	2108.7	2110.9	2113.0
12.5°	2085.1	2082.9	2080.8	2080.8	2082.9
15°	2055.0	2046.4	2044.2	2042.1	2044.2
17.5°	2012.0	2009.8	2001.2	2001.2	2001.2
20°	1964.7	1960.4	1953.9	1949.6	1949.6
22.5°	1915.2	1910.9	1900.2	1895.9	1898.0
25°	1859.4	1850.8	1842.2	1837.9	1835.7
27.5°	1799.2	1790.6	1777.7	1771.2	1771.2
30°	1734.7	1728.2	1713.2	1704.6	1702.4
32.5°	1663.7	1659.4	1638.0	1633.7	1633.7
35°	1597.1	1584.2	1567.0	1558.4	1556.3
37.5°	1517.6	1509.0	1491.8	1481.0	1478.9
40°	1438.0	1427.3	1410.1	1401.5	1399.4
42.5°	1358.5	1347.8	1330.6	1319.8	1317.7
45°	1276.8	1268.2	1246.7	1236.0	1236.0
47.5°	1199.4	1182.3	1162.9	1154.3	1152.2
50°	1115.6	1100.6	1079.1	1070.5	1070.5
52.5°	1031.8	1021.0	997.4	993.1	988.8
55°	950.1	932.9	915.7	905.0	902.8
57.5°	862.0	846.9	829.7	821.1	821.1
60°	786.7	767.4	752.3	741.6	741.6
62.5°	700.8	683.6	668.5	662.1	659.9
65°	619.1	606.2	589.0	582.5	582.5
67.5°	537.4	526.6	511.6	505.1	507.3
70°	457.9	451.4	440.7	432.1	429.9
72.5°	384.8	376.2	365.4	363.3	363.3
75°	316.0	305.2	296.6	292.3	298.8
77.5°	245.0	238.6	234.3	232.2	234.3
80°	182.7	174.1	172.0	174.1	174.1
82.5°	126.8	122.5	120.4	120.4	120.4
85°	70.9	70.9	68.8	66.6	64.5
87.5°	27.9	27.9	30.1	30.1	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)