

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: P601483

Luminaire Tested: 22CGSB-50-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601483
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-50-L935
Description: 2x2 CGSB AT 5000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

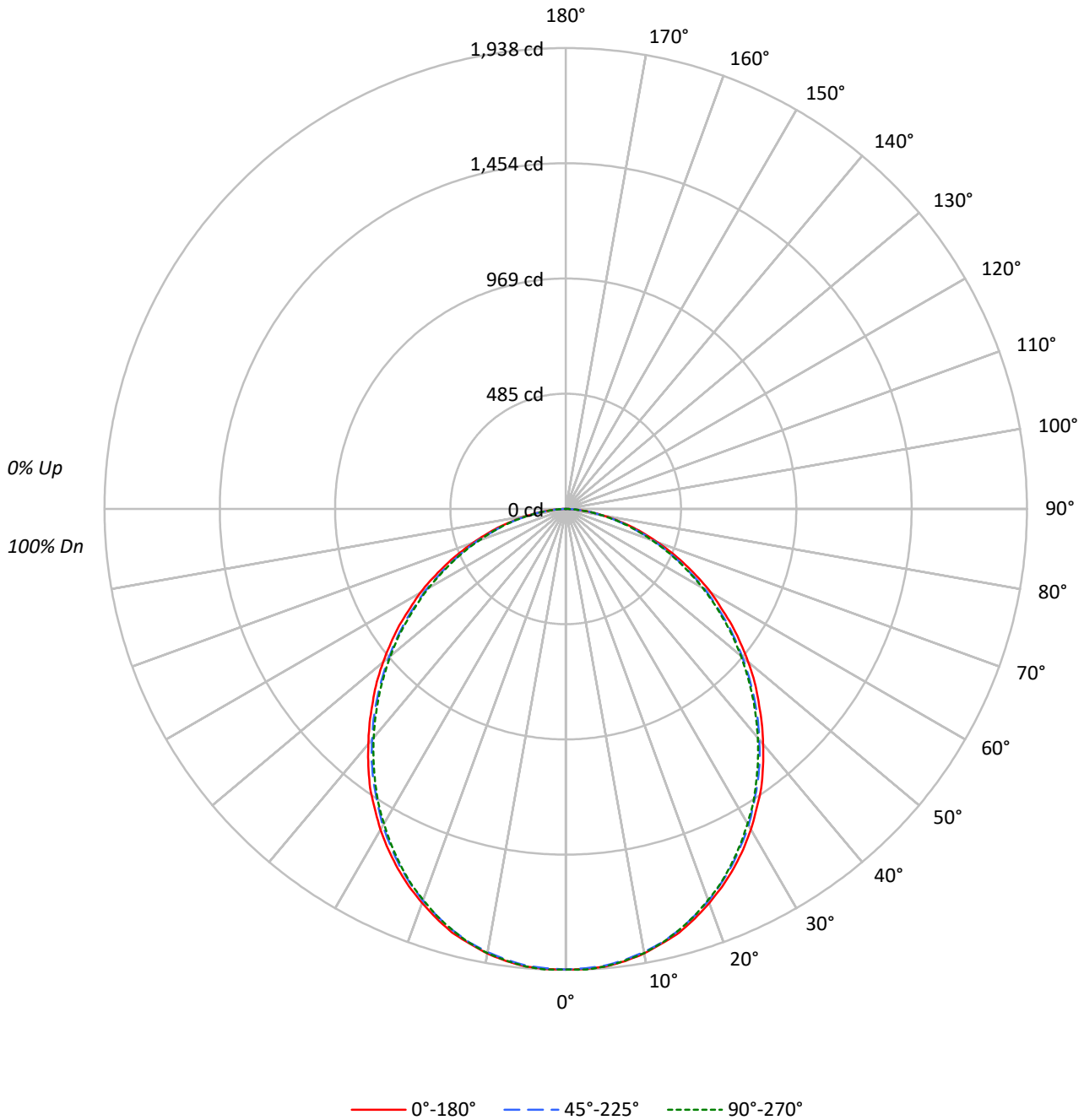
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4839.0 lumens
Efficiency: N/A
Efficacy: 113.9 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): 42.5
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°	5211	5211	5211
5°	5215	5205	5215
10°	5186	5170	5181
15°	5137	5110	5110
20°	5048	5021	5010
25°	4954	4908	4891
30°	4836	4777	4747
35°	4708	4619	4587
40°	4533	4444	4411
45°	4360	4257	4220
50°	4191	4053	4021
55°	4000	3855	3801
60°	3799	3633	3581
65°	3537	3365	3328
70°	3232	3111	3035
75°	2948	2768	2787
80°	2540	2391	2421
85°	1964	1905	1788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4360 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	3.8
10°-20°	517.2	10.7
20°-30°	761.8	15.7
30°-40°	881.2	18.2
40°-50°	866.3	17.9
50°-60°	738.3	15.3
60°-70°	529.0	10.9
70°-80°	287.3	5.9
80°-90°	74.9	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°	1461.9	30.2
0°-40°	2343.1	48.4
0°-60°	3947.7	81.6
0°-90°	4839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1931	1927	1927	1927	1931	183
15°	1844	1836	1834	1832	1834	519
25°	1668	1661	1653	1649	1647	768
35°	1433	1422	1406	1398	1396	894
45°	1146	1138	1119	1109	1109	885
55°	852	837	822	812	810	761
65°	556	544	528	523	523	550
75°	284	274	266	262	268	299
85°	64	64	62	60	58	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.4	1936.4	1936.4	1936.4	1936.4
2.5°	1936.4	1934.5	1932.6	1934.5	1938.4
5°	1930.7	1926.8	1926.8	1926.8	1930.7
7.5°	1917.2	1913.3	1911.4	1913.3	1915.2
10°	1897.9	1894.0	1892.1	1894.0	1895.9
12.5°	1870.9	1868.9	1867.0	1867.0	1868.9
15°	1843.9	1836.2	1834.2	1832.3	1834.2
17.5°	1805.3	1803.4	1795.6	1795.6	1795.6
20°	1762.9	1759.0	1753.2	1749.4	1749.4
22.5°	1718.5	1714.6	1705.0	1701.1	1703.1
25°	1668.4	1660.6	1652.9	1649.1	1647.1
27.5°	1614.3	1606.6	1595.1	1589.3	1589.3
30°	1556.5	1550.7	1537.2	1529.5	1527.6
32.5°	1492.8	1489.0	1469.7	1465.8	1465.8
35°	1433.0	1421.5	1406.0	1398.3	1396.4
37.5°	1361.7	1354.0	1338.5	1328.9	1327.0
40°	1290.3	1280.7	1265.2	1257.5	1255.6
42.5°	1219.0	1209.3	1193.9	1184.2	1182.3
45°	1145.7	1138.0	1118.7	1109.0	1109.0
47.5°	1076.2	1060.8	1043.4	1035.7	1033.8
50°	1001.0	987.5	968.2	960.5	960.5
52.5°	925.8	916.1	894.9	891.1	887.2
55°	852.5	837.1	821.6	812.0	810.1
57.5°	773.4	759.9	744.5	736.8	736.8
60°	705.9	688.6	675.1	665.4	665.4
62.5°	628.8	613.3	599.8	594.0	592.1
65°	555.5	543.9	528.5	522.7	522.7
67.5°	482.2	472.5	459.0	453.3	455.2
70°	410.8	405.0	395.4	387.7	385.7
72.5°	345.2	337.5	327.9	326.0	326.0
75°	283.5	273.9	266.2	262.3	268.1
77.5°	219.9	214.1	210.2	208.3	210.2
80°	163.9	156.2	154.3	156.2	156.2
82.5°	113.8	109.9	108.0	108.0	108.0
85°	63.6	63.6	61.7	59.8	57.9
87.5°	25.1	25.1	27.0	27.0	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)