

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: P601471

Luminaire Tested: 22CGSB-45-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601471
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-L835
Description: 2x2 CGSB AT 4500lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

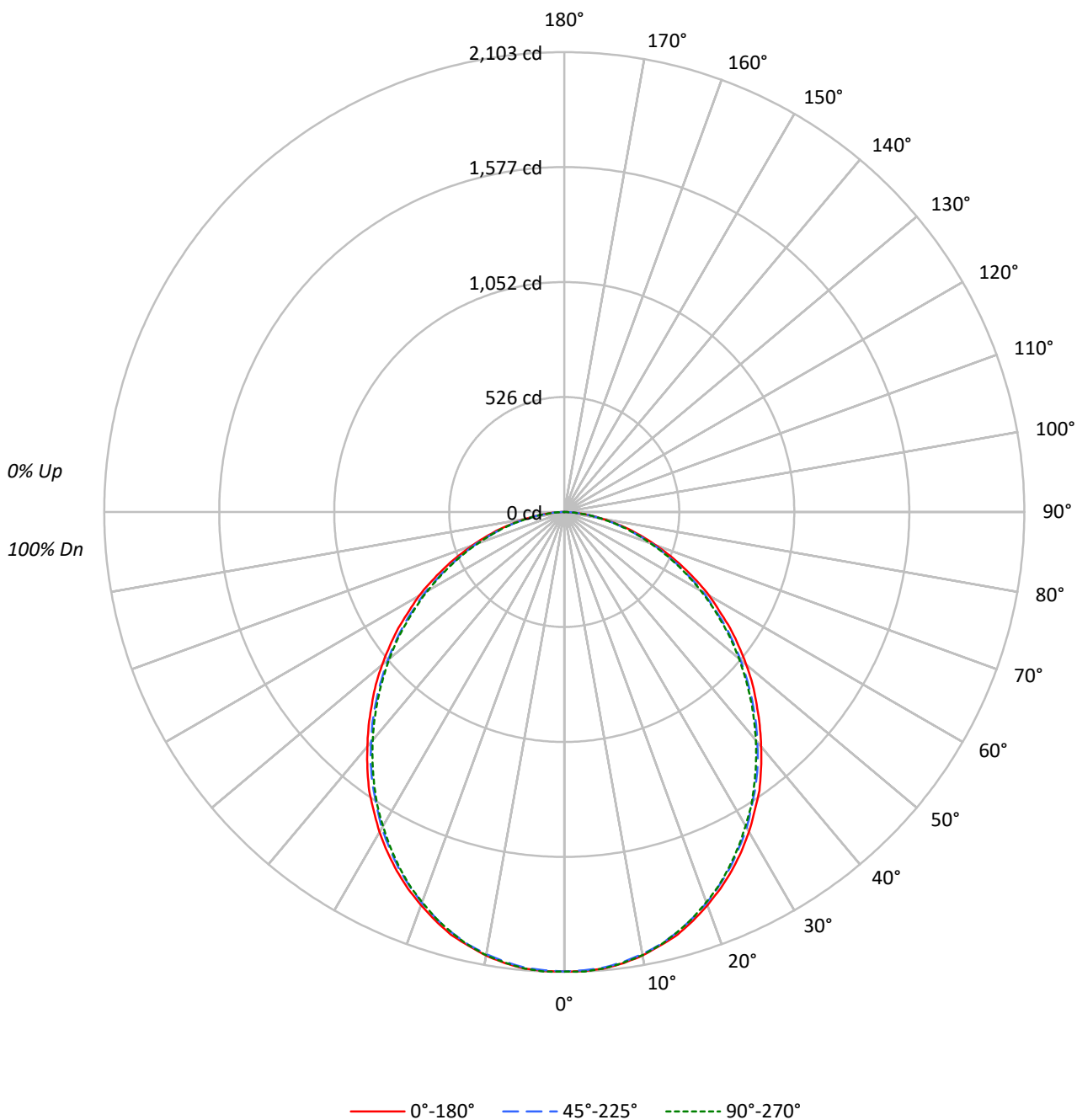
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5251.0 lumens
Efficiency: N/A
Efficacy: 137.5 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

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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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	5655	5655	5655
5°	5659	5648	5659
10°	5628	5610	5622
15°	5574	5545	5545
20°	5478	5448	5436
25°	5375	5326	5307
30°	5248	5183	5151
35°	5109	5012	4978
40°	4919	4823	4786
45°	4731	4620	4580
50°	4547	4399	4364
55°	4340	4183	4124
60°	4123	3942	3886
65°	3838	3652	3612
70°	3508	3376	3294
75°	3199	3003	3025
80°	2757	2594	2627
85°	2133	2069	1939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4731 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	3.8
10°-20°	561.3	10.7
20°-30°	826.6	15.7
30°-40°	956.2	18.2
40°-50°	940.1	17.9
50°-60°	801.2	15.3
60°-70°	574.1	10.9
70°-80°	311.8	5.9
80°-90°	81.3	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°	1586.4	30.2
0°-40°	2542.6	48.4
0°-60°	4283.8	81.6
0°-90°	5251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2101	2101	2101	2101	2101	
5°	2095	2091	2091	2091	2095	199
15°	2001	1992	1990	1988	1990	563
25°	1810	1802	1794	1790	1787	833
35°	1555	1542	1526	1517	1515	970
45°	1243	1235	1214	1203	1203	960
55°	925	908	892	881	879	826
65°	603	590	574	567	567	597
75°	308	297	289	285	291	325
85°	69	69	67	65	63	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.3	2101.3	2101.3	2101.3	2101.3
2.5°	2101.3	2099.2	2097.1	2099.2	2103.4
5°	2095.0	2090.9	2090.9	2090.9	2095.0
7.5°	2080.4	2076.2	2074.1	2076.2	2078.3
10°	2059.5	2055.3	2053.2	2055.3	2057.4
12.5°	2030.2	2028.1	2026.0	2026.0	2028.1
15°	2000.9	1992.5	1990.4	1988.3	1990.4
17.5°	1959.0	1956.9	1948.5	1948.5	1948.5
20°	1913.0	1908.8	1902.5	1898.3	1898.3
22.5°	1864.8	1860.6	1850.2	1846.0	1848.1
25°	1810.4	1802.0	1793.7	1789.5	1787.4
27.5°	1751.8	1743.4	1730.9	1724.6	1724.6
30°	1689.0	1682.7	1668.1	1659.7	1657.6
32.5°	1619.9	1615.8	1594.8	1590.6	1590.6
35°	1555.1	1542.5	1525.8	1517.4	1515.3
37.5°	1477.6	1469.2	1452.5	1442.0	1439.9
40°	1400.2	1389.7	1373.0	1364.6	1362.5
42.5°	1322.7	1312.3	1295.5	1285.1	1283.0
45°	1243.2	1234.8	1213.9	1203.4	1203.4
47.5°	1167.9	1151.1	1132.3	1123.9	1121.8
50°	1086.2	1071.6	1050.7	1042.3	1042.3
52.5°	1004.6	994.2	971.1	966.9	962.8
55°	925.1	908.3	891.6	881.1	879.0
57.5°	839.3	824.6	807.9	799.5	799.5
60°	766.0	747.2	732.5	722.1	722.1
62.5°	682.3	665.6	650.9	644.6	642.5
65°	602.8	590.2	573.5	567.2	567.2
67.5°	523.2	512.8	498.1	491.8	493.9
70°	445.8	439.5	429.1	420.7	418.6
72.5°	374.6	366.3	355.8	353.7	353.7
75°	307.7	297.2	288.8	284.6	290.9
77.5°	238.6	232.3	228.1	226.0	228.1
80°	177.9	169.5	167.4	169.5	169.5
82.5°	123.5	119.3	117.2	117.2	117.2
85°	69.1	69.1	67.0	64.9	62.8
87.5°	27.2	27.2	29.3	29.3	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)