

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: P601493

Luminaire Tested: 22CGSB-55-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601493
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-55-L950
Description: 2x2 CGSB AT 5500lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

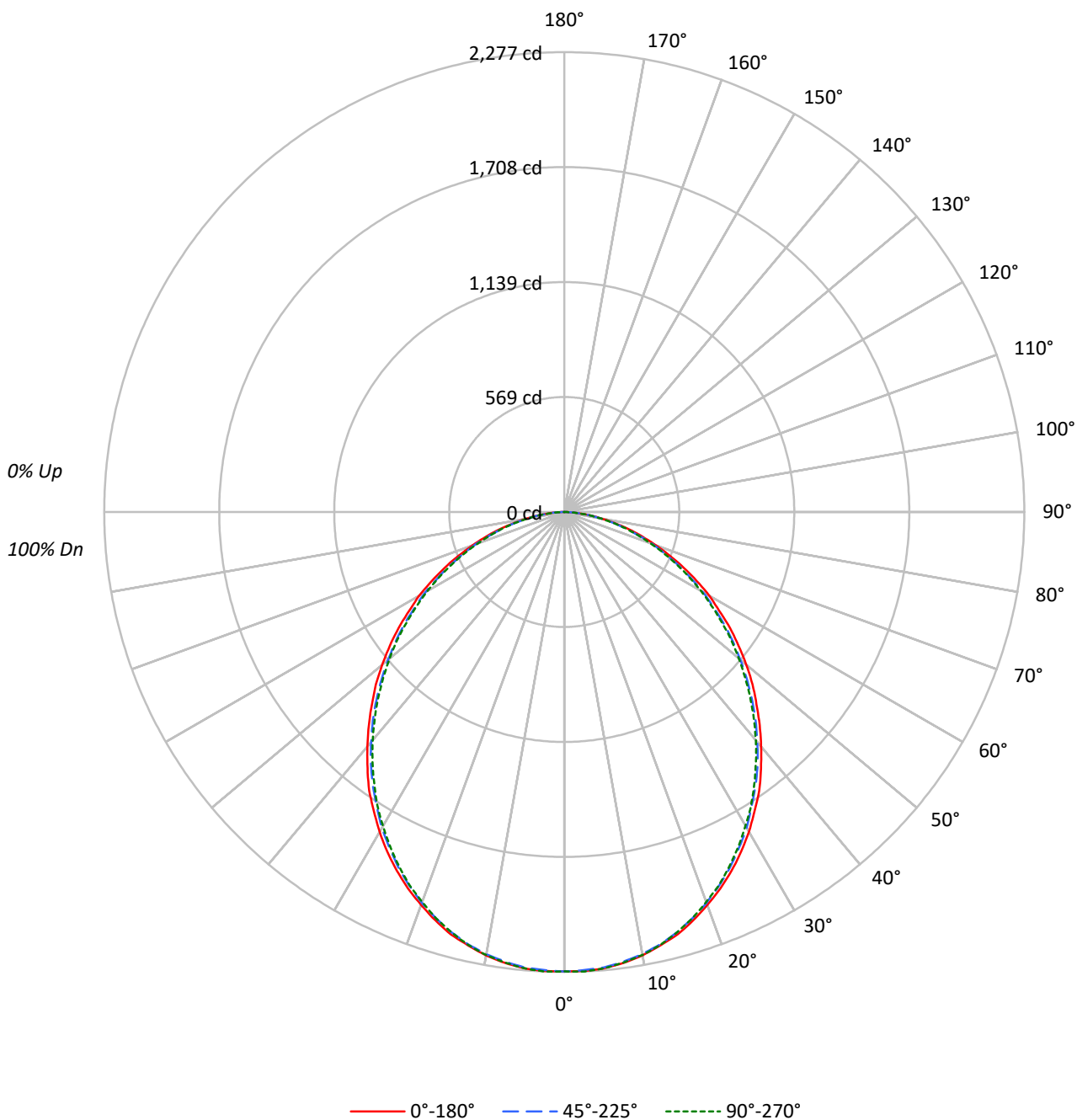
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5684.0 lumens
Efficiency: N/A
Efficacy: 123.0 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): 46.2
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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CATALOG NUMBER: 22CGSB-55-L950

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°	6121	6121	6121
5°	6126	6114	6126
10°	6092	6073	6085
15°	6034	6002	6002
20°	5930	5897	5884
25°	5819	5765	5745
30°	5681	5610	5575
35°	5530	5426	5388
40°	5324	5221	5181
45°	5121	5001	4958
50°	4922	4761	4723
55°	4698	4528	4464
60°	4463	4267	4207
65°	4155	3953	3910
70°	3797	3654	3565
75°	3462	3250	3274
80°	2985	2808	2844
85°	2309	2238	2100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5121 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.9	3.8
10°-20°	607.5	10.7
20°-30°	894.8	15.7
30°-40°	1035.1	18.2
40°-50°	1017.6	17.9
50°-60°	867.2	15.3
60°-70°	621.4	10.9
70°-80°	337.5	5.9
80°-90°	88.0	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°	1717.2	30.2
0°-40°	2752.3	48.4
0°-60°	4637.1	81.6
0°-90°	5684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2268	2263	2263	2263	2268	215
15°	2166	2157	2154	2152	2154	610
25°	1960	1951	1942	1937	1935	902
35°	1683	1670	1652	1642	1640	1050
45°	1346	1337	1314	1303	1303	1039
55°	1001	983	965	954	952	894
65°	652	639	621	614	614	646
75°	333	322	313	308	315	352
85°	75	75	72	70	68	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2274.6	2274.6	2274.6	2274.6	2274.6
2.5°	2274.6	2272.3	2270.1	2272.3	2276.9
5°	2267.8	2263.3	2263.3	2263.3	2267.8
7.5°	2251.9	2247.4	2245.1	2247.4	2249.7
10°	2229.3	2224.8	2222.5	2224.8	2227.0
12.5°	2197.6	2195.3	2193.0	2193.0	2195.3
15°	2165.8	2156.8	2154.5	2152.3	2154.5
17.5°	2120.5	2118.3	2109.2	2109.2	2109.2
20°	2070.7	2066.2	2059.4	2054.8	2054.8
22.5°	2018.6	2014.1	2002.7	1998.2	2000.5
25°	1959.7	1950.6	1941.6	1937.0	1934.8
27.5°	1896.3	1887.2	1873.6	1866.8	1866.8
30°	1828.3	1821.5	1805.6	1796.6	1794.3
32.5°	1753.5	1749.0	1726.3	1721.8	1721.8
35°	1683.3	1669.7	1651.6	1642.5	1640.2
37.5°	1599.5	1590.4	1572.3	1561.0	1558.7
40°	1515.6	1504.3	1486.2	1477.1	1474.9
42.5°	1431.8	1420.5	1402.4	1391.0	1388.8
45°	1345.7	1336.7	1314.0	1302.7	1302.7
47.5°	1264.2	1246.0	1225.7	1216.6	1214.3
50°	1175.8	1160.0	1137.3	1128.2	1128.2
52.5°	1087.5	1076.1	1051.2	1046.7	1042.1
55°	1001.4	983.2	965.1	953.8	951.5
57.5°	908.5	892.6	874.5	865.4	865.4
60°	829.2	808.8	792.9	781.6	781.6
62.5°	738.6	720.4	704.6	697.8	695.5
65°	652.5	638.9	620.8	614.0	614.0
67.5°	566.4	555.1	539.2	532.4	534.7
70°	482.6	475.8	464.4	455.4	453.1
72.5°	405.5	396.5	385.1	382.9	382.9
75°	333.0	321.7	312.6	308.1	314.9
77.5°	258.3	251.5	246.9	244.7	246.9
80°	192.6	183.5	181.2	183.5	183.5
82.5°	133.7	129.1	126.9	126.9	126.9
85°	74.8	74.8	72.5	70.2	68.0
87.5°	29.5	29.5	31.7	31.7	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)