

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: P601492

Luminaire Tested: 22CGSB-55-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601492
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-L940
Description: 2x2 CGSB AT 5500lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

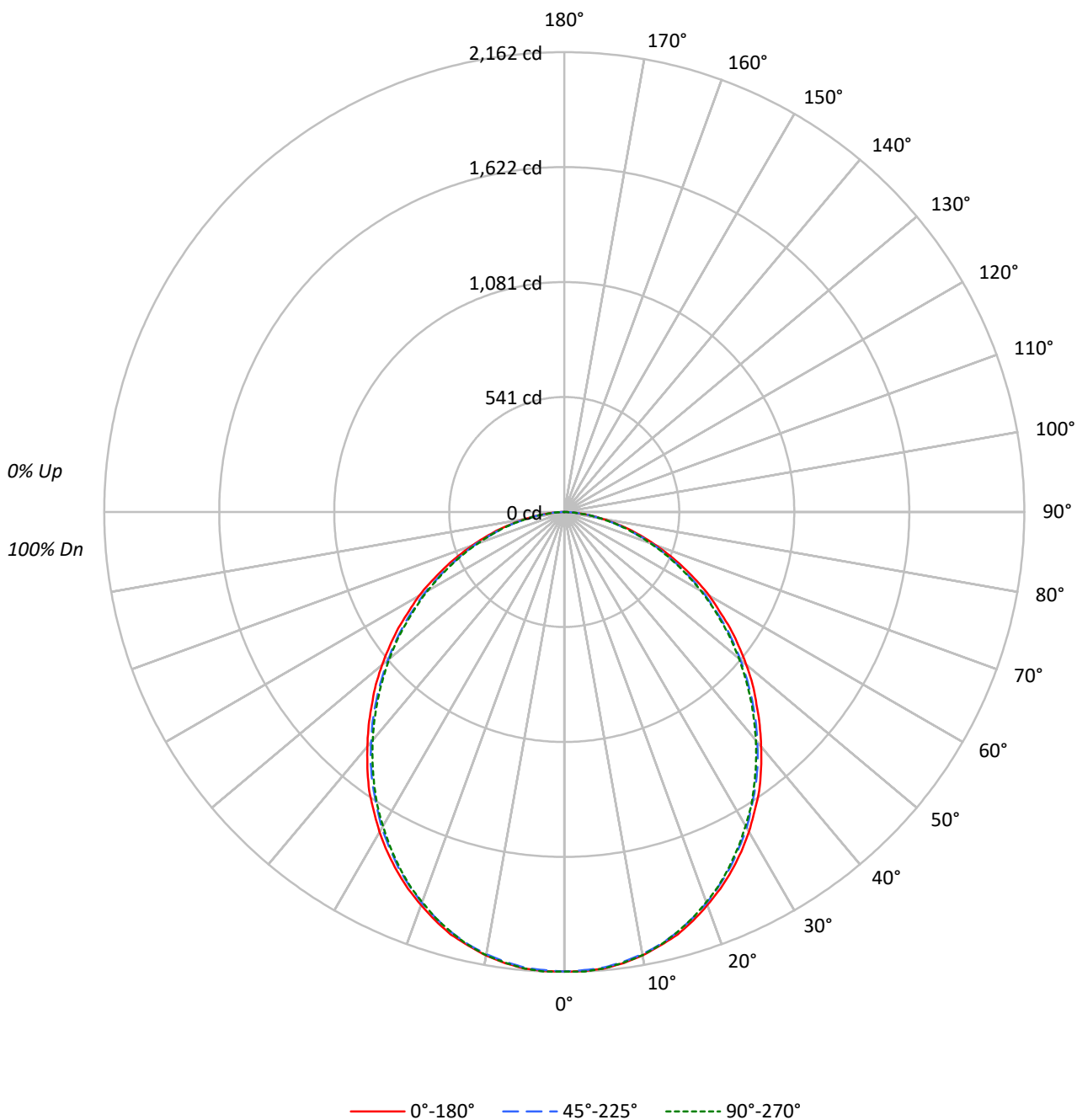
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5398.0 lumens
Efficiency: N/A
Efficacy: 116.8 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): 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-L940

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°	5813	5813	5813
5°	5818	5806	5818
10°	5785	5767	5779
15°	5730	5700	5700
20°	5631	5600	5588
25°	5526	5475	5456
30°	5395	5328	5295
35°	5252	5153	5117
40°	5056	4958	4920
45°	4864	4749	4708
50°	4675	4522	4486
55°	4462	4300	4239
60°	4238	4053	3995
65°	3945	3754	3713
70°	3606	3471	3386
75°	3289	3087	3110
80°	2834	2667	2701
85°	2192	2124	1991

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4864 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	3.8
10°-20°	577.0	10.7
20°-30°	849.8	15.7
30°-40°	983.0	18.2
40°-50°	966.4	17.9
50°-60°	823.6	15.3
60°-70°	590.1	10.9
70°-80°	320.5	5.9
80°-90°	83.6	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°	1630.8	30.2
0°-40°	2613.8	48.4
0°-60°	4403.8	81.6
0°-90°	5398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2154	2149	2149	2149	2154	204
15°	2057	2048	2046	2044	2046	579
25°	1861	1852	1844	1840	1837	857
35°	1599	1586	1568	1560	1558	997
45°	1278	1269	1248	1237	1237	987
55°	951	934	917	906	904	849
65°	620	607	590	583	583	614
75°	316	306	297	293	299	334
85°	71	71	69	67	64	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2160.1	2160.1	2160.1	2160.1	2160.1
2.5°	2160.1	2158.0	2155.8	2158.0	2162.3
5°	2153.7	2149.4	2149.4	2149.4	2153.7
7.5°	2138.6	2134.3	2132.2	2134.3	2136.5
10°	2117.1	2112.8	2110.7	2112.8	2115.0
12.5°	2087.0	2084.8	2082.7	2082.7	2084.8
15°	2056.9	2048.3	2046.1	2044.0	2046.1
17.5°	2013.8	2011.7	2003.1	2003.1	2003.1
20°	1966.5	1962.2	1955.7	1951.4	1951.4
22.5°	1917.0	1912.7	1902.0	1897.7	1899.8
25°	1861.1	1852.5	1843.9	1839.6	1837.4
27.5°	1800.8	1792.2	1779.3	1772.9	1772.9
30°	1736.3	1729.8	1714.8	1706.2	1704.0
32.5°	1665.3	1661.0	1639.5	1635.2	1635.2
35°	1598.6	1585.7	1568.5	1559.9	1557.7
37.5°	1519.0	1510.4	1493.2	1482.4	1480.3
40°	1439.4	1428.6	1411.4	1402.8	1400.7
42.5°	1359.8	1349.0	1331.8	1321.0	1318.9
45°	1278.0	1269.4	1247.9	1237.1	1237.1
47.5°	1200.6	1183.3	1164.0	1155.4	1153.2
50°	1116.6	1101.6	1080.1	1071.5	1071.5
52.5°	1032.7	1022.0	998.3	994.0	989.7
55°	951.0	933.8	916.6	905.8	903.6
57.5°	862.8	847.7	830.5	821.9	821.9
60°	787.5	768.1	753.0	742.3	742.3
62.5°	701.4	684.2	669.1	662.7	660.5
65°	619.6	606.7	589.5	583.1	583.1
67.5°	537.9	527.1	512.1	505.6	507.8
70°	458.3	451.8	441.1	432.5	430.3
72.5°	385.1	376.5	365.8	363.6	363.6
75°	316.3	305.5	296.9	292.6	299.1
77.5°	245.3	238.8	234.5	232.4	234.5
80°	182.9	174.3	172.1	174.3	174.3
82.5°	126.9	122.6	120.5	120.5	120.5
85°	71.0	71.0	68.8	66.7	64.5
87.5°	28.0	28.0	30.1	30.1	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)