

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: P601465

Luminaire Tested: 22CGSB-40-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601465
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-40-L850
Description: 2x2 CGSB AT 4000lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

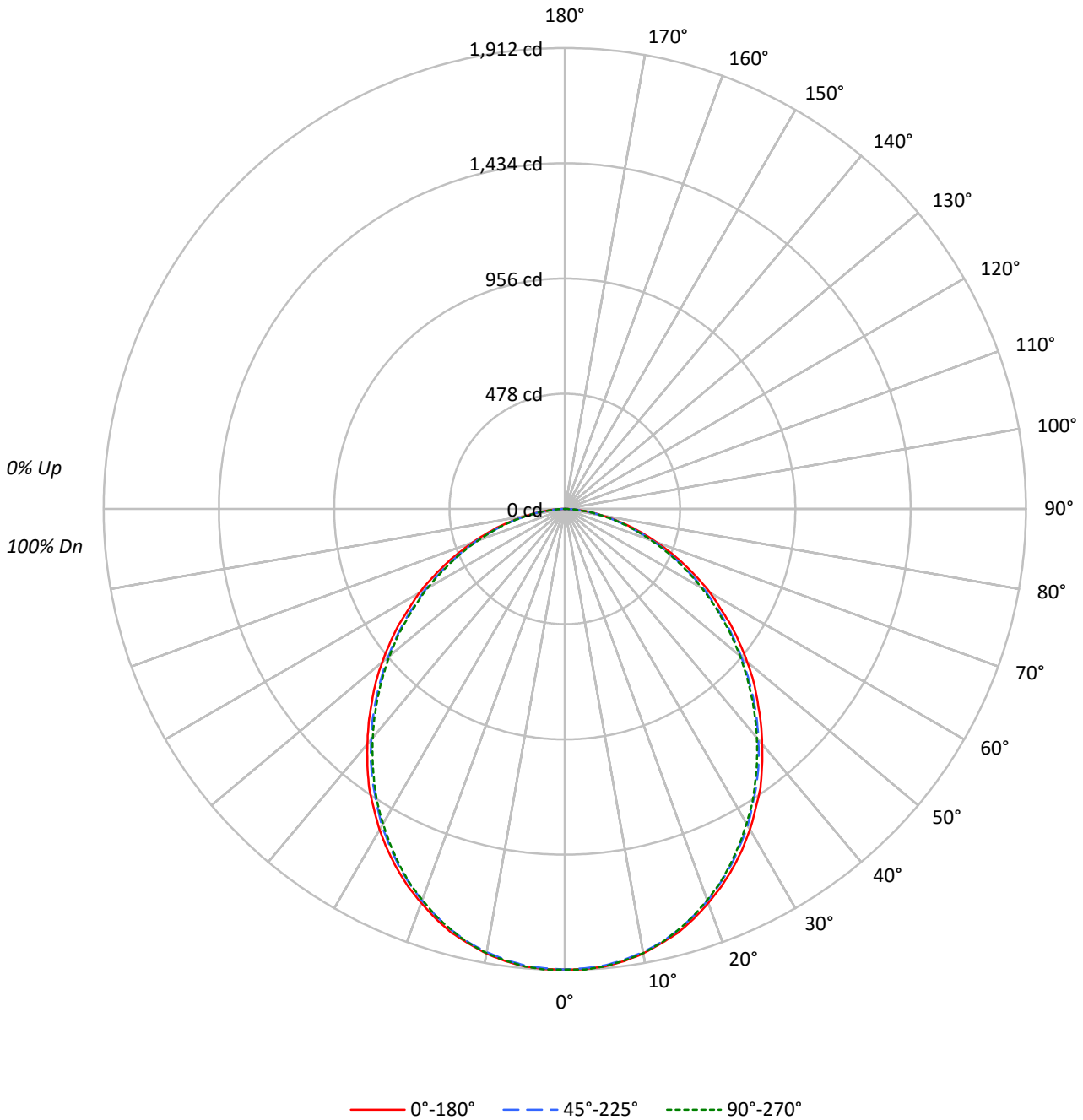
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4774.0 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): 33.8
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-40-L850

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°	5141	5141	5141
5°	5145	5135	5145
10°	5116	5101	5111
15°	5068	5041	5041
20°	4981	4953	4942
25°	4887	4842	4825
30°	4772	4712	4683
35°	4644	4557	4526
40°	4472	4385	4351
45°	4301	4200	4164
50°	4135	3999	3967
55°	3946	3803	3750
60°	3748	3584	3533
65°	3489	3320	3284
70°	3189	3069	2995
75°	2908	2730	2750
80°	2506	2359	2388
85°	1939	1880	1763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4301 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	3.8
10°-20°	510.3	10.7
20°-30°	751.5	15.7
30°-40°	869.4	18.2
40°-50°	854.7	17.9
50°-60°	728.4	15.3
60°-70°	521.9	10.9
70°-80°	283.5	5.9
80°-90°	73.9	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°	1442.2	30.2
0°-40°	2311.6	48.4
0°-60°	3894.7	81.6
0°-90°	4774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1905	1901	1901	1901	1905	181
15°	1819	1812	1810	1808	1810	512
25°	1646	1638	1631	1627	1625	758
35°	1414	1402	1387	1380	1378	882
45°	1130	1123	1104	1094	1094	873
55°	841	826	811	801	799	751
65°	548	537	521	516	516	543
75°	280	270	263	259	264	295
85°	63	63	61	59	57	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.4	1910.4	1910.4	1910.4	1910.4
2.5°	1910.4	1908.5	1906.6	1908.5	1912.3
5°	1904.7	1900.9	1900.9	1900.9	1904.7
7.5°	1891.4	1887.6	1885.7	1887.6	1889.5
10°	1872.4	1868.6	1866.7	1868.6	1870.5
12.5°	1845.7	1843.8	1841.9	1841.9	1843.8
15°	1819.1	1811.5	1809.6	1807.7	1809.6
17.5°	1781.0	1779.1	1771.5	1771.5	1771.5
20°	1739.2	1735.4	1729.7	1725.9	1725.9
22.5°	1695.4	1691.6	1682.1	1678.3	1680.2
25°	1645.9	1638.3	1630.7	1626.9	1625.0
27.5°	1592.7	1585.1	1573.6	1567.9	1567.9
30°	1535.6	1529.9	1516.6	1508.9	1507.0
32.5°	1472.8	1469.0	1450.0	1446.1	1446.1
35°	1413.8	1402.4	1387.2	1379.5	1377.6
37.5°	1343.4	1335.8	1320.6	1311.0	1309.1
40°	1273.0	1263.5	1248.3	1240.6	1238.7
42.5°	1202.6	1193.1	1177.8	1168.3	1166.4
45°	1130.3	1122.7	1103.6	1094.1	1094.1
47.5°	1061.8	1046.6	1029.4	1021.8	1019.9
50°	987.6	974.2	955.2	947.6	947.6
52.5°	913.4	903.8	882.9	879.1	875.3
55°	841.0	825.8	810.6	801.1	799.2
57.5°	763.0	749.7	734.5	726.9	726.9
60°	696.4	679.3	666.0	656.5	656.5
62.5°	620.3	605.1	591.8	586.1	584.2
65°	548.0	536.6	521.4	515.7	515.7
67.5°	475.7	466.2	452.9	447.2	449.1
70°	405.3	399.6	390.1	382.5	380.6
72.5°	340.6	333.0	323.5	321.6	321.6
75°	279.7	270.2	262.6	258.8	264.5
77.5°	216.9	211.2	207.4	205.5	207.4
80°	161.7	154.1	152.2	154.1	154.1
82.5°	112.3	108.5	106.6	106.6	106.6
85°	62.8	62.8	60.9	59.0	57.1
87.5°	24.7	24.7	26.6	26.6	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)