

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: P601468

Luminaire Tested: 22CGSB-40-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601468
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-L940
Description: 2x2 CGSB AT 4000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

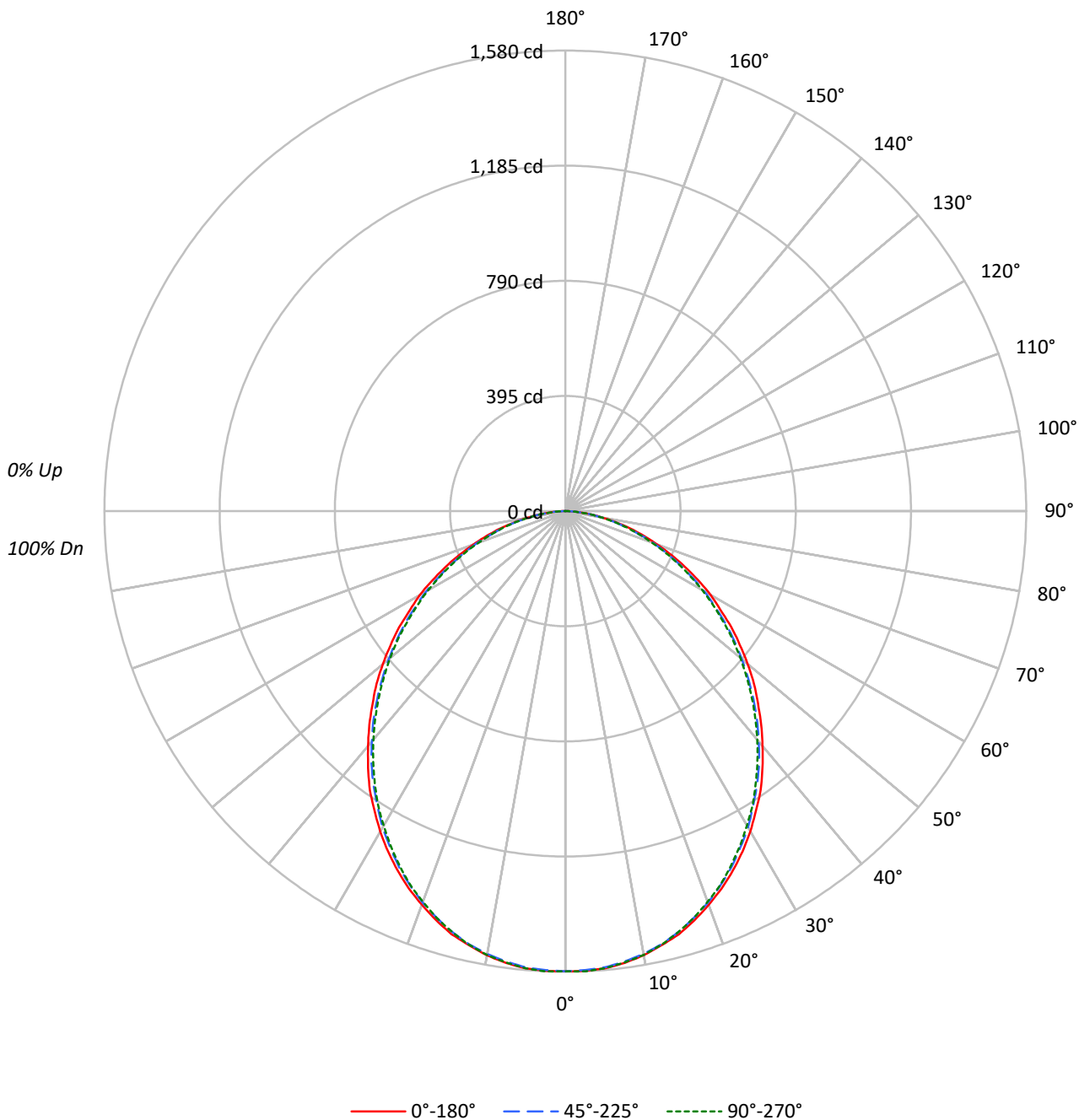
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3945.0 lumens
Efficiency: N/A
Efficacy: 116.7 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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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°	4248	4248	4248
5°	4252	4243	4252
10°	4228	4215	4224
15°	4188	4166	4166
20°	4116	4093	4084
25°	4038	4001	3987
30°	3943	3894	3869
35°	3838	3766	3740
40°	3695	3623	3596
45°	3554	3471	3441
50°	3417	3304	3278
55°	3261	3142	3098
60°	3097	2962	2920
65°	2884	2743	2713
70°	2635	2536	2474
75°	2403	2256	2273
80°	2072	1949	1974
85°	1602	1553	1457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3554 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.8
10°-20°	421.7	10.7
20°-30°	621.0	15.7
30°-40°	718.4	18.2
40°-50°	706.3	17.9
50°-60°	601.9	15.3
60°-70°	431.3	10.9
70°-80°	234.2	5.9
80°-90°	61.1	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°	1191.8	30.2
0°-40°	1910.2	48.4
0°-60°	3218.4	81.6
0°-90°	3945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1579	1579	1579	1579	1579	
5°	1574	1571	1571	1571	1574	149
15°	1503	1497	1495	1494	1495	423
25°	1360	1354	1348	1344	1343	626
35°	1168	1159	1146	1140	1138	729
45°	934	928	912	904	904	721
55°	695	682	670	662	660	621
65°	453	443	431	426	426	449
75°	231	223	217	214	219	244
85°	52	52	50	49	47	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1578.7	1578.7	1578.7	1578.7	1578.7
2.5°	1578.7	1577.1	1575.5	1577.1	1580.3
5°	1574.0	1570.8	1570.8	1570.8	1574.0
7.5°	1563.0	1559.8	1558.2	1559.8	1561.4
10°	1547.2	1544.1	1542.5	1544.1	1545.7
12.5°	1525.2	1523.7	1522.1	1522.1	1523.7
15°	1503.2	1496.9	1495.4	1493.8	1495.4
17.5°	1471.8	1470.2	1463.9	1463.9	1463.9
20°	1437.2	1434.0	1429.3	1426.2	1426.2
22.5°	1401.0	1397.9	1390.0	1386.9	1388.4
25°	1360.1	1353.8	1347.5	1344.4	1342.8
27.5°	1316.1	1309.8	1300.4	1295.7	1295.7
30°	1268.9	1264.2	1253.2	1246.9	1245.3
32.5°	1217.0	1213.9	1198.2	1195.0	1195.0
35°	1168.3	1158.9	1146.3	1140.0	1138.4
37.5°	1110.1	1103.8	1091.2	1083.4	1081.8
40°	1051.9	1044.1	1031.5	1025.2	1023.6
42.5°	993.8	985.9	973.3	965.5	963.9
45°	934.0	927.7	912.0	904.1	904.1
47.5°	877.4	864.8	850.7	844.4	842.8
50°	816.1	805.1	789.3	783.1	783.1
52.5°	754.8	746.9	729.6	726.4	723.3
55°	695.0	682.4	669.8	662.0	660.4
57.5°	630.5	619.5	606.9	600.7	600.7
60°	575.5	561.3	550.3	542.5	542.5
62.5°	512.6	500.0	489.0	484.3	482.7
65°	452.9	443.4	430.8	426.1	426.1
67.5°	393.1	385.2	374.2	369.5	371.1
70°	334.9	330.2	322.3	316.1	314.5
72.5°	281.5	275.2	267.3	265.7	265.7
75°	231.1	223.3	217.0	213.8	218.6
77.5°	179.3	174.5	171.4	169.8	171.4
80°	133.7	127.4	125.8	127.4	127.4
82.5°	92.8	89.6	88.1	88.1	88.1
85°	51.9	51.9	50.3	48.7	47.2
87.5°	20.4	20.4	22.0	22.0	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)