

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: P601467

Luminaire Tested: 22CGSB-40-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601467
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-L935
Description: 2x2 CGSB AT 4000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

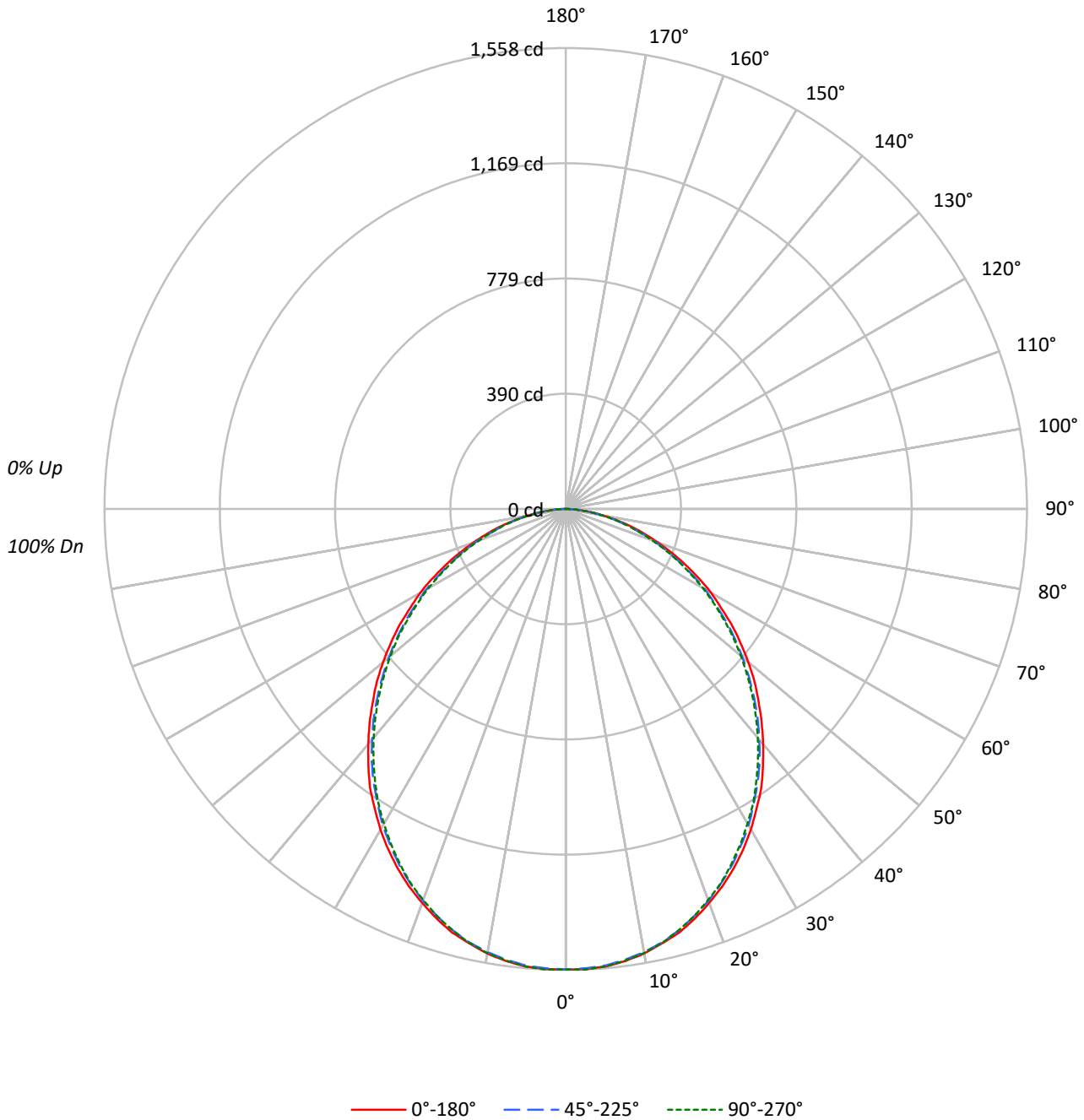
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3890.0 lumens
Efficiency: N/A
Efficacy: 115.1 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-L935

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°	4189	4189	4189
5°	4192	4184	4192
10°	4169	4156	4165
15°	4130	4108	4108
20°	4058	4036	4027
25°	3982	3945	3931
30°	3888	3840	3816
35°	3784	3713	3688
40°	3644	3573	3546
45°	3505	3422	3393
50°	3369	3258	3232
55°	3215	3099	3055
60°	3054	2921	2879
65°	2843	2705	2676
70°	2599	2500	2440
75°	2370	2225	2241
80°	2042	1922	1946
85°	1581	1531	1436

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3505 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.8
10°-20°	415.8	10.7
20°-30°	612.4	15.7
30°-40°	708.4	18.2
40°-50°	696.4	17.9
50°-60°	593.5	15.3
60°-70°	425.3	10.9
70°-80°	231.0	5.9
80°-90°	60.3	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°	1175.2	30.2
0°-40°	1883.6	48.4
0°-60°	3173.5	81.6
0°-90°	3890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1552	1549	1549	1549	1552	147
15°	1482	1476	1474	1473	1474	417
25°	1341	1335	1329	1326	1324	617
35°	1152	1143	1130	1124	1122	718
45°	921	915	899	892	892	711
55°	685	673	660	653	651	612
65°	446	437	425	420	420	442
75°	228	220	214	211	216	241
85°	51	51	50	48	46	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.7	1556.7	1556.7	1556.7	1556.7
2.5°	1556.7	1555.1	1553.6	1555.1	1558.2
5°	1552.0	1548.9	1548.9	1548.9	1552.0
7.5°	1541.2	1538.1	1536.5	1538.1	1539.6
10°	1525.7	1522.6	1521.0	1522.6	1524.1
12.5°	1504.0	1502.4	1500.9	1500.9	1502.4
15°	1482.3	1476.1	1474.5	1473.0	1474.5
17.5°	1451.2	1449.7	1443.5	1443.5	1443.5
20°	1417.1	1414.0	1409.4	1406.3	1406.3
22.5°	1381.5	1378.4	1370.6	1367.5	1369.1
25°	1341.2	1335.0	1328.8	1325.7	1324.1
27.5°	1297.8	1291.5	1282.2	1277.6	1277.6
30°	1251.2	1246.6	1235.7	1229.5	1228.0
32.5°	1200.1	1197.0	1181.5	1178.4	1178.4
35°	1152.0	1142.7	1130.3	1124.1	1122.5
37.5°	1094.6	1088.4	1076.0	1068.3	1066.7
40°	1037.3	1029.5	1017.1	1010.9	1009.4
42.5°	979.9	972.2	959.7	952.0	950.4
45°	921.0	914.8	899.3	891.5	891.5
47.5°	865.2	852.8	838.8	832.6	831.1
50°	804.7	793.8	778.3	772.1	772.1
52.5°	744.2	736.5	719.4	716.3	713.2
55°	685.3	672.9	660.5	652.8	651.2
57.5°	621.7	610.9	598.5	592.3	592.3
60°	567.5	553.5	542.7	534.9	534.9
62.5°	505.5	493.1	482.2	477.5	476.0
65°	446.5	437.2	424.8	420.2	420.2
67.5°	387.6	379.9	369.0	364.4	365.9
70°	330.3	325.6	317.8	311.6	310.1
72.5°	277.5	271.3	263.6	262.0	262.0
75°	227.9	220.2	214.0	210.9	215.5
77.5°	176.8	172.1	169.0	167.5	169.0
80°	131.8	125.6	124.0	125.6	125.6
82.5°	91.5	88.4	86.8	86.8	86.8
85°	51.2	51.2	49.6	48.1	46.5
87.5°	20.2	20.2	21.7	21.7	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)