

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: P601466

Luminaire Tested: 22CGSB-40-L930

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601466
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-L930
Description: 2x2 CGSB AT 4000lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

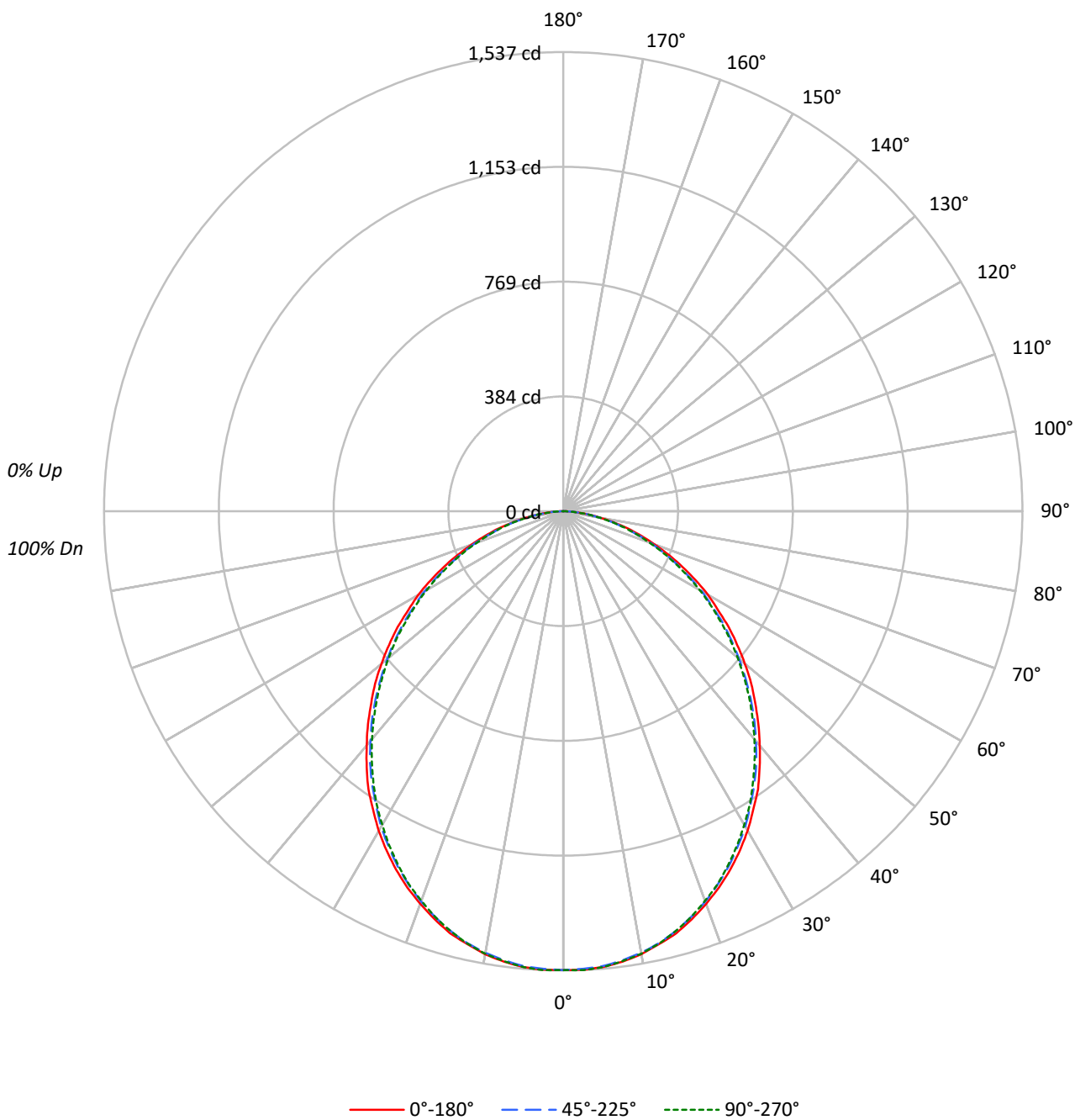
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3838.0 lumens
Efficiency: N/A
Efficacy: 113.6 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-L930

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°	4133	4133	4133
5°	4136	4128	4136
10°	4113	4101	4109
15°	4074	4053	4053
20°	4004	3982	3973
25°	3929	3893	3879
30°	3836	3788	3765
35°	3734	3664	3638
40°	3595	3525	3498
45°	3458	3377	3347
50°	3324	3215	3189
55°	3172	3058	3014
60°	3013	2882	2841
65°	2805	2669	2640
70°	2563	2467	2408
75°	2338	2195	2210
80°	2015	1897	1920
85°	1559	1513	1417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3458 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	3.8
10°-20°	410.2	10.7
20°-30°	604.2	15.7
30°-40°	698.9	18.2
40°-50°	687.1	17.9
50°-60°	585.6	15.3
60°-70°	419.6	10.9
70°-80°	227.9	5.9
80°-90°	59.5	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°	1159.5	30.2
0°-40°	1858.4	48.4
0°-60°	3131.1	81.6
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1531	1528	1528	1528	1531	145
15°	1462	1456	1455	1453	1455	412
25°	1323	1317	1311	1308	1306	609
35°	1137	1127	1115	1109	1108	709
45°	909	903	887	880	880	702
55°	676	664	652	644	642	604
65°	441	431	419	415	415	436
75°	225	217	211	208	213	238
85°	50	50	49	47	46	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.9	1535.9	1535.9	1535.9	1535.9
2.5°	1535.9	1534.3	1532.8	1534.3	1537.4
5°	1531.3	1528.2	1528.2	1528.2	1531.3
7.5°	1520.6	1517.5	1516.0	1517.5	1519.0
10°	1505.3	1502.2	1500.7	1502.2	1503.7
12.5°	1483.9	1482.3	1480.8	1480.8	1482.3
15°	1462.4	1456.3	1454.8	1453.3	1454.8
17.5°	1431.8	1430.3	1424.2	1424.2	1424.2
20°	1398.2	1395.1	1390.5	1387.5	1387.5
22.5°	1363.0	1360.0	1352.3	1349.2	1350.8
25°	1323.2	1317.1	1311.0	1307.9	1306.4
27.5°	1280.4	1274.3	1265.1	1260.5	1260.5
30°	1234.5	1229.9	1219.2	1213.1	1211.6
32.5°	1184.0	1181.0	1165.7	1162.6	1162.6
35°	1136.6	1127.4	1115.2	1109.1	1107.5
37.5°	1080.0	1073.9	1061.6	1054.0	1052.5
40°	1023.4	1015.8	1003.5	997.4	995.9
42.5°	966.8	959.2	946.9	939.3	937.7
45°	908.7	902.6	887.3	879.6	879.6
47.5°	853.6	841.4	827.6	821.5	819.9
50°	793.9	783.2	767.9	761.8	761.8
52.5°	734.3	726.6	709.8	706.7	703.7
55°	676.2	663.9	651.7	644.0	642.5
57.5°	613.4	602.7	590.5	584.4	584.4
60°	559.9	546.1	535.4	527.8	527.8
62.5°	498.7	486.5	475.8	471.2	469.6
65°	440.6	431.4	419.2	414.6	414.6
67.5°	382.4	374.8	364.1	359.5	361.0
70°	325.8	321.2	313.6	307.5	306.0
72.5°	273.8	267.7	260.1	258.5	258.5
75°	224.9	217.2	211.1	208.0	212.6
77.5°	174.4	169.8	166.7	165.2	166.7
80°	130.0	123.9	122.4	123.9	123.9
82.5°	90.3	87.2	85.7	85.7	85.7
85°	50.5	50.5	49.0	47.4	45.9
87.5°	19.9	19.9	21.4	21.4	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)