

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: P601460

Luminaire Tested: 22CGSB-35-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601460
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-35-L940
Description: 2x2 CGSB AT 3500lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

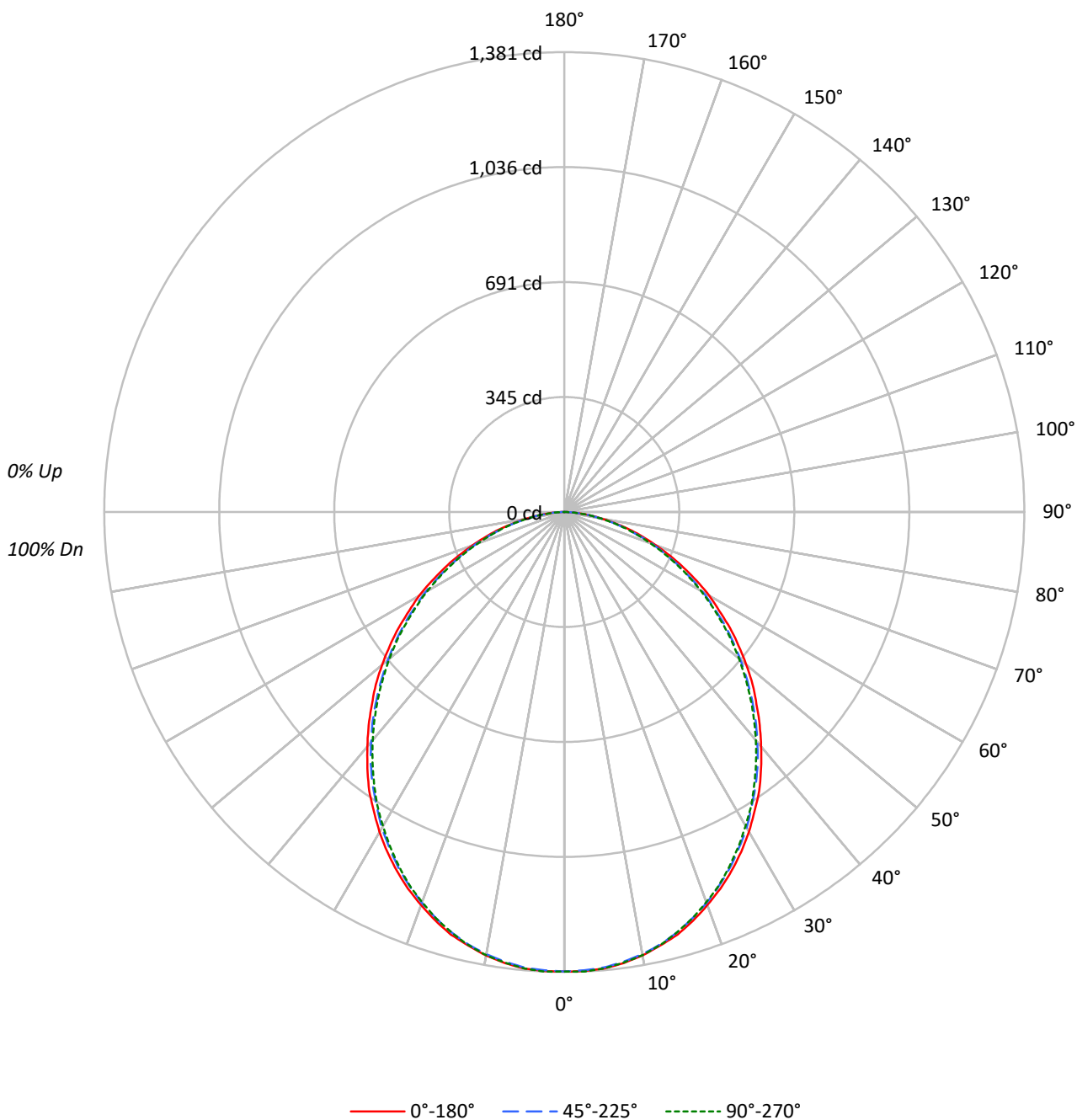
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3448.0 lumens
Efficiency: N/A
Efficacy: 118.1 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): 29.2
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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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°	3713	3713	3713
5°	3716	3709	3716
10°	3695	3684	3691
15°	3660	3641	3641
20°	3597	3577	3570
25°	3530	3497	3485
30°	3446	3403	3382
35°	3354	3291	3269
40°	3230	3167	3143
45°	3107	3033	3007
50°	2986	2888	2865
55°	2850	2747	2708
60°	2707	2589	2552
65°	2520	2398	2371
70°	2303	2216	2163
75°	2100	1972	1986
80°	1810	1703	1725
85°	1402	1359	1272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3107 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.8
10°-20°	368.5	10.7
20°-30°	542.8	15.7
30°-40°	627.9	18.2
40°-50°	617.3	17.9
50°-60°	526.1	15.3
60°-70°	376.9	10.9
70°-80°	204.7	5.9
80°-90°	53.4	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°	1041.7	30.2
0°-40°	1669.6	48.4
0°-60°	2812.9	81.6
0°-90°	3448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1376	1373	1373	1373	1376	131
15°	1314	1308	1307	1306	1307	370
25°	1189	1183	1178	1175	1174	547
35°	1021	1013	1002	996	995	637
45°	816	811	797	790	790	631
55°	607	596	586	579	577	542
65°	396	388	377	372	372	392
75°	202	195	190	187	191	213
85°	45	45	44	43	41	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1379.8	1378.4	1377.1	1378.4	1381.2
5°	1375.7	1372.9	1372.9	1372.9	1375.7
7.5°	1366.1	1363.3	1361.9	1363.3	1364.7
10°	1352.3	1349.6	1348.2	1349.6	1350.9
12.5°	1333.1	1331.7	1330.3	1330.3	1331.7
15°	1313.8	1308.3	1307.0	1305.6	1307.0
17.5°	1286.4	1285.0	1279.5	1279.5	1279.5
20°	1256.1	1253.4	1249.2	1246.5	1246.5
22.5°	1224.5	1221.8	1214.9	1212.1	1213.5
25°	1188.8	1183.3	1177.8	1175.0	1173.7
27.5°	1150.3	1144.8	1136.6	1132.4	1132.4
30°	1109.1	1104.9	1095.3	1089.8	1088.5
32.5°	1063.7	1061.0	1047.2	1044.5	1044.5
35°	1021.1	1012.9	1001.9	996.4	995.0
37.5°	970.3	964.8	953.8	946.9	945.5
40°	919.4	912.5	901.5	896.0	894.7
42.5°	868.6	861.7	850.7	843.8	842.4
45°	816.3	810.8	797.1	790.2	790.2
47.5°	766.9	755.9	743.5	738.0	736.6
50°	713.3	703.6	689.9	684.4	684.4
52.5°	659.7	652.8	637.7	634.9	632.2
55°	607.4	596.4	585.5	578.6	577.2
57.5°	551.1	541.5	530.5	525.0	525.0
60°	503.0	490.6	481.0	474.1	474.1
62.5°	448.0	437.0	427.4	423.3	421.9
65°	395.8	387.6	376.6	372.4	372.4
67.5°	343.6	336.7	327.1	323.0	324.3
70°	292.7	288.6	281.7	276.2	274.9
72.5°	246.0	240.5	233.6	232.3	232.3
75°	202.0	195.2	189.7	186.9	191.0
77.5°	156.7	152.5	149.8	148.4	149.8
80°	116.8	111.3	109.9	111.3	111.3
82.5°	81.1	78.3	77.0	77.0	77.0
85°	45.4	45.4	44.0	42.6	41.2
87.5°	17.9	17.9	19.2	19.2	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)