

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: P601469

Luminaire Tested: 22CGSB-40-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601469
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-L950
Description: 2x2 CGSB AT 4000lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

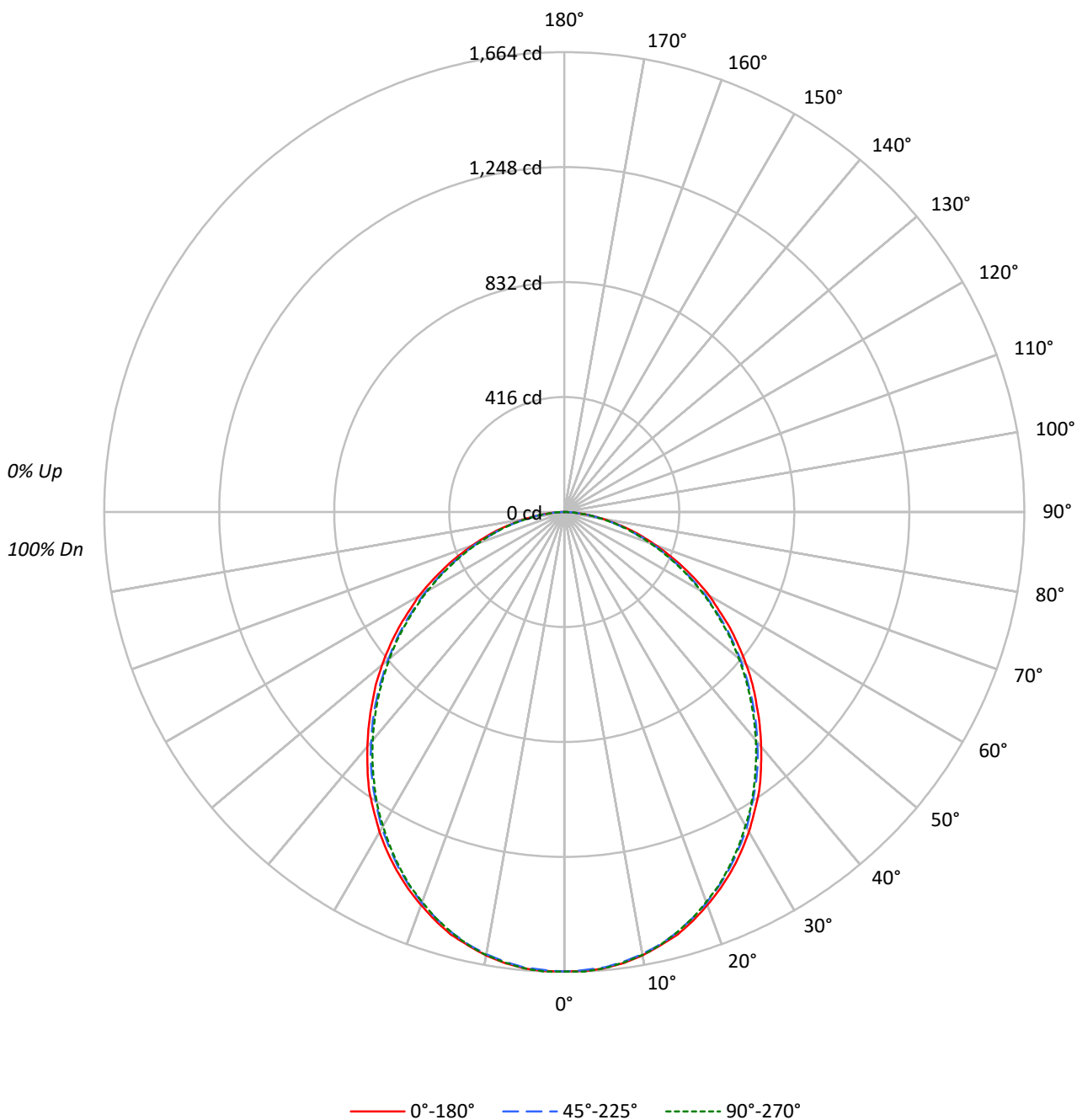
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4154.0 lumens
Efficiency: N/A
Efficacy: 122.9 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	4473	4473	4473
5°	4477	4468	4477
10°	4452	4438	4447
15°	4410	4387	4387
20°	4334	4310	4300
25°	4252	4213	4198
30°	4152	4100	4075
35°	4041	3965	3938
40°	3891	3815	3786
45°	3743	3655	3623
50°	3597	3480	3452
55°	3433	3309	3263
60°	3261	3119	3074
65°	3036	2889	2857
70°	2775	2670	2605
75°	2531	2376	2392
80°	2180	2053	2078
85°	1686	1636	1535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3743 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	3.8
10°-20°	444.0	10.7
20°-30°	653.9	15.7
30°-40°	756.5	18.2
40°-50°	743.7	17.9
50°-60°	633.8	15.3
60°-70°	454.1	10.9
70°-80°	246.6	5.9
80°-90°	64.3	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°	1254.9	30.2
0°-40°	2011.4	48.4
0°-60°	3388.9	81.6
0°-90°	4154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1657	1654	1654	1654	1657	157
15°	1583	1576	1575	1573	1575	446
25°	1432	1426	1419	1416	1414	659
35°	1230	1220	1207	1200	1199	767
45°	984	977	960	952	952	760
55°	732	719	705	697	695	653
65°	477	467	454	449	449	472
75°	243	235	228	225	230	257
85°	55	55	53	51	50	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.3	1662.3	1662.3	1662.3	1662.3
2.5°	1662.3	1660.7	1659.0	1660.7	1664.0
5°	1657.4	1654.0	1654.0	1654.0	1657.4
7.5°	1645.8	1642.5	1640.8	1642.5	1644.1
10°	1629.2	1625.9	1624.2	1625.9	1627.6
12.5°	1606.0	1604.4	1602.7	1602.7	1604.4
15°	1582.9	1576.2	1574.6	1572.9	1574.6
17.5°	1549.7	1548.1	1541.5	1541.5	1541.5
20°	1513.3	1510.0	1505.0	1501.7	1501.7
22.5°	1475.2	1471.9	1463.6	1460.3	1462.0
25°	1432.2	1425.6	1418.9	1415.6	1414.0
27.5°	1385.8	1379.2	1369.3	1364.3	1364.3
30°	1336.2	1331.2	1319.6	1313.0	1311.3
32.5°	1281.5	1278.2	1261.6	1258.3	1258.3
35°	1230.2	1220.3	1207.0	1200.4	1198.7
37.5°	1168.9	1162.3	1149.1	1140.8	1139.1
40°	1107.7	1099.4	1086.1	1079.5	1077.9
42.5°	1046.4	1038.1	1024.9	1016.6	1014.9
45°	983.5	976.9	960.3	952.0	952.0
47.5°	923.9	910.6	895.7	889.1	887.5
50°	859.3	847.7	831.2	824.5	824.5
52.5°	794.7	786.5	768.2	764.9	761.6
55°	731.8	718.6	705.3	697.1	695.4
57.5°	663.9	652.3	639.1	632.5	632.5
60°	606.0	591.1	579.5	571.2	571.2
62.5°	539.8	526.5	514.9	510.0	508.3
65°	476.8	466.9	453.7	448.7	448.7
67.5°	413.9	405.6	394.1	389.1	390.7
70°	352.7	347.7	339.4	332.8	331.1
72.5°	296.4	289.7	281.5	279.8	279.8
75°	243.4	235.1	228.5	225.2	230.1
77.5°	188.8	183.8	180.5	178.8	180.5
80°	140.7	134.1	132.5	134.1	134.1
82.5°	97.7	94.4	92.7	92.7	92.7
85°	54.6	54.6	53.0	51.3	49.7
87.5°	21.5	21.5	23.2	23.2	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)