

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: P601456

Luminaire Tested: 22CGSB-35-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601456
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-L840
Description: 2x2 CGSB AT 3500lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

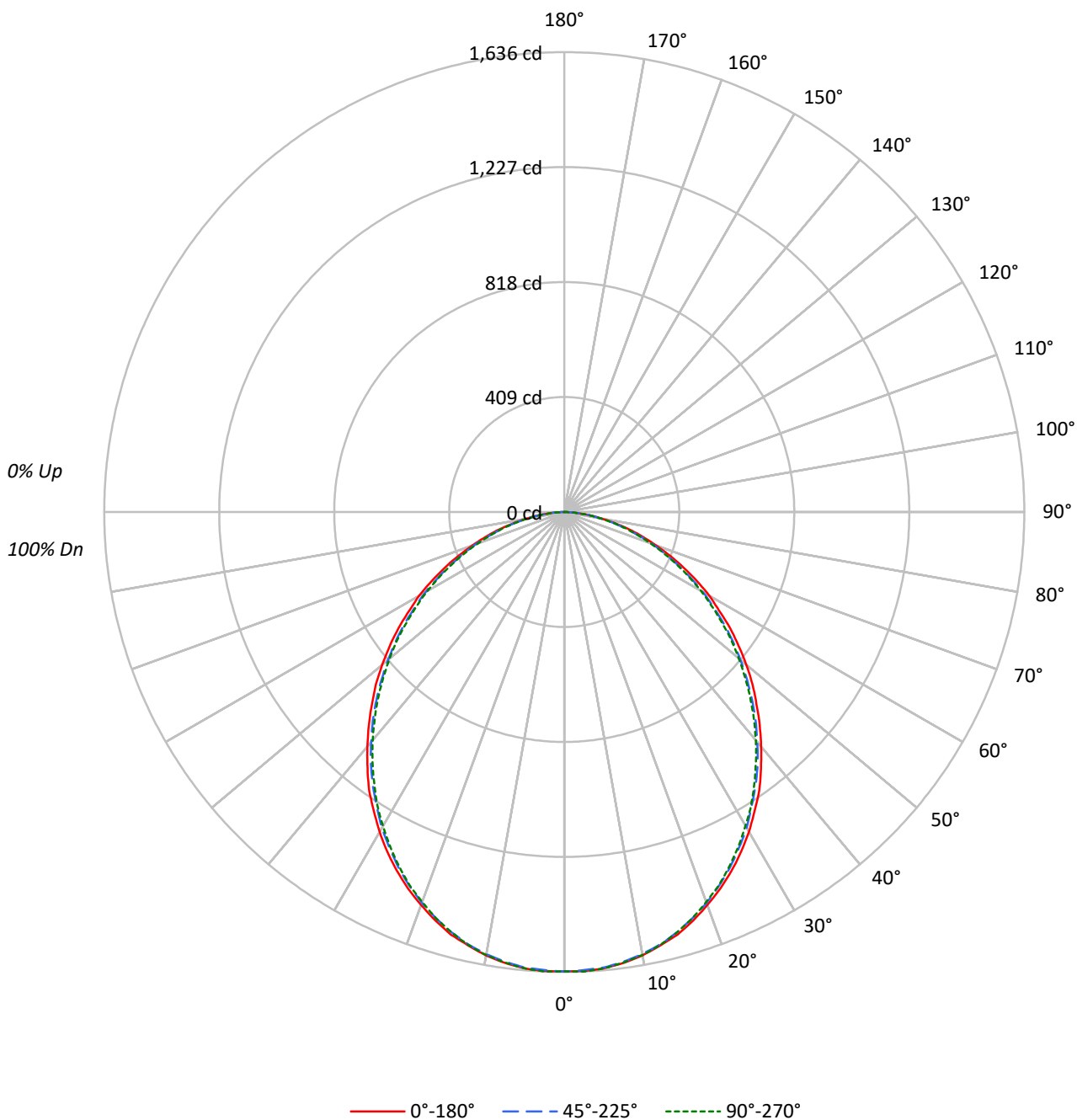
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4084.0 lumens
Efficiency: N/A
Efficacy: 139.9 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): 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°	4398	4398	4398
5°	4401	4393	4401
10°	4377	4364	4372
15°	4335	4313	4313
20°	4261	4237	4228
25°	4181	4142	4127
30°	4082	4031	4006
35°	3973	3898	3871
40°	3825	3751	3723
45°	3680	3593	3562
50°	3537	3421	3394
55°	3376	3253	3208
60°	3207	3066	3023
65°	2985	2840	2809
70°	2728	2626	2562
75°	2488	2335	2353
80°	2145	2018	2044
85°	1658	1609	1507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3680 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	3.8
10°-20°	436.5	10.7
20°-30°	642.9	15.7
30°-40°	743.7	18.2
40°-50°	731.2	17.9
50°-60°	623.1	15.3
60°-70°	446.5	10.9
70°-80°	242.5	5.9
80°-90°	63.3	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°	1233.8	30.2
0°-40°	1977.5	48.4
0°-60°	3331.8	81.6
0°-90°	4084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1629	1626	1626	1626	1629	155
15°	1556	1550	1548	1546	1548	438
25°	1408	1402	1395	1392	1390	648
35°	1210	1200	1187	1180	1178	754
45°	967	960	944	936	936	747
55°	720	706	693	685	684	642
65°	469	459	446	441	441	464
75°	239	231	225	221	226	253
85°	54	54	52	50	49	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.3	1634.3	1634.3	1634.3	1634.3
2.5°	1634.3	1632.7	1631.1	1632.7	1635.9
5°	1629.4	1626.2	1626.2	1626.2	1629.4
7.5°	1618.0	1614.8	1613.2	1614.8	1616.4
10°	1601.8	1598.5	1596.9	1598.5	1600.1
12.5°	1579.0	1577.3	1575.7	1575.7	1577.3
15°	1556.2	1549.7	1548.0	1546.4	1548.0
17.5°	1523.6	1522.0	1515.5	1515.5	1515.5
20°	1487.8	1484.6	1479.7	1476.4	1476.4
22.5°	1450.4	1447.1	1439.0	1435.7	1437.4
25°	1408.1	1401.5	1395.0	1391.8	1390.1
27.5°	1362.5	1356.0	1346.2	1341.3	1341.3
30°	1313.6	1308.8	1297.4	1290.8	1289.2
32.5°	1259.9	1256.7	1240.4	1237.1	1237.1
35°	1209.5	1199.7	1186.7	1180.2	1178.5
37.5°	1149.2	1142.7	1129.7	1121.6	1119.9
40°	1089.0	1080.9	1067.8	1061.3	1059.7
42.5°	1028.8	1020.6	1007.6	999.5	997.8
45°	966.9	960.4	944.1	936.0	936.0
47.5°	908.3	895.3	880.6	874.1	872.5
50°	844.8	833.4	817.2	810.6	810.6
52.5°	781.3	773.2	755.3	752.0	748.8
55°	719.5	706.5	693.4	685.3	683.7
57.5°	652.7	641.4	628.3	621.8	621.8
60°	595.8	581.1	569.7	561.6	561.6
62.5°	530.7	517.6	506.2	501.4	499.7
65°	468.8	459.0	446.0	441.1	441.1
67.5°	407.0	398.8	387.4	382.5	384.2
70°	346.7	341.8	333.7	327.2	325.6
72.5°	291.4	284.9	276.7	275.1	275.1
75°	239.3	231.1	224.6	221.4	226.3
77.5°	185.6	180.7	177.4	175.8	177.4
80°	138.4	131.9	130.2	131.9	131.9
82.5°	96.0	92.8	91.2	91.2	91.2
85°	53.7	53.7	52.1	50.5	48.8
87.5°	21.2	21.2	22.8	22.8	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)