

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: P601323

Luminaire Tested: 14CGSB-50-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-233-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-50-L935
Description: 1x4 CGSB AT 5000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

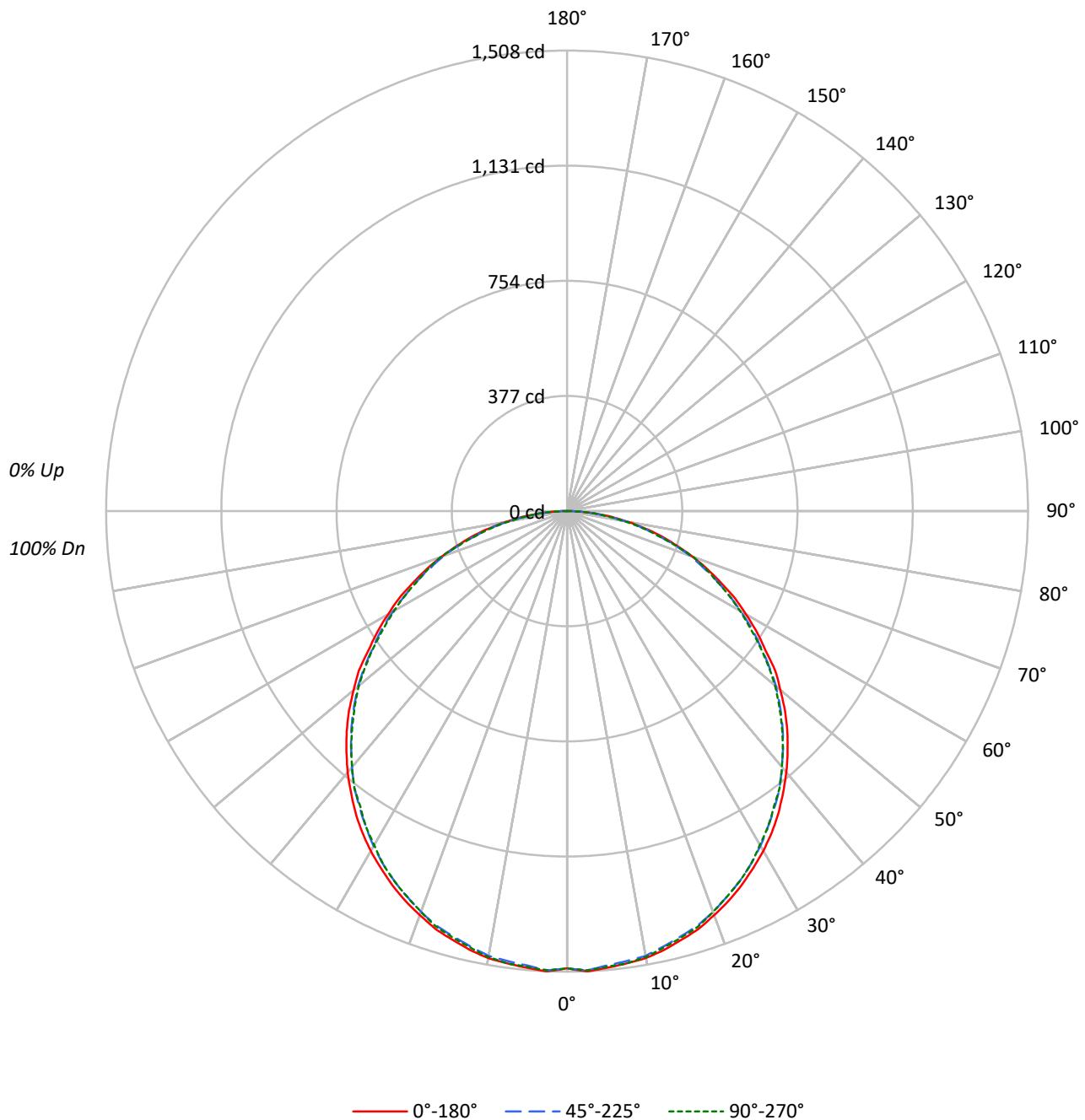
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4346.8 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
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

TEST NUMBER: P601323
CATALOG NUMBER: 14CGSB-50-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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83	83	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69	69	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58	58	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49	49	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4029	4029	4029
5°	4055	4034	4044
10°	4060	4040	4050
15°	4046	4015	4026
20°	4031	3999	3999
25°	4013	3969	3969
30°	3991	3933	3921
35°	3962	3888	3876
40°	3922	3843	3843
45°	3879	3794	3780
50°	3814	3736	3720
55°	3714	3626	3609
60°	3637	3536	3517
65°	3542	3447	3424
70°	3437	3378	3467
75°	3339	3184	3184
80°	3124	3067	2951
85°	2881	2766	2766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3879 cd/sqm

TEST NUMBER: P601323
 CATALOG NUMBER: 14CGSB-50-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.3
10°-20°	408.1	9.4
20°-30°	617.5	14.2
30°-40°	744.1	17.1
40°-50°	772.6	17.8
50°-60°	695.8	16.0
60°-70°	537.6	12.4
70°-80°	327.6	7.5
80°-90°	101.3	2.3
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°	1167.9	26.9
0°-40°	1912.0	44.0
0°-60°	3380.4	77.8
0°-90°	4346.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4346.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1501	1497	1494	1494	1497	143
15°	1452	1449	1441	1441	1445	410
25°	1352	1348	1337	1333	1337	623
35°	1206	1198	1184	1180	1180	754
45°	1019	1012	997	993	993	785
55°	792	784	773	769	769	711
65°	556	545	541	534	538	552
75°	321	310	306	302	306	337
85°	93	93	90	86	90	106
90°	0	0	0	0	0	

TEST NUMBER: P601323

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1497.2	1497.2	1497.2	1497.2	1497.2
2.5°	1508.4	1508.4	1504.7	1504.7	1504.7
5°	1501.0	1497.2	1493.5	1493.5	1497.2
7.5°	1493.5	1493.5	1486.0	1486.0	1493.5
10°	1486.0	1482.3	1478.6	1478.6	1482.3
12.5°	1471.1	1467.4	1459.9	1459.9	1463.6
15°	1452.4	1448.7	1441.2	1441.2	1445.0
17.5°	1433.8	1430.0	1422.6	1422.6	1426.3
20°	1407.6	1403.9	1396.4	1392.7	1396.4
22.5°	1381.5	1377.8	1366.6	1362.8	1366.6
25°	1351.6	1347.9	1336.7	1332.9	1336.7
27.5°	1318.0	1314.3	1303.1	1299.3	1303.1
30°	1284.4	1276.9	1265.7	1258.3	1262.0
32.5°	1247.1	1239.6	1224.7	1220.9	1224.7
35°	1206.0	1198.5	1183.6	1179.9	1179.9
37.5°	1161.2	1157.5	1142.5	1138.8	1142.5
40°	1116.4	1108.9	1094.0	1090.3	1094.0
42.5°	1067.9	1060.4	1045.4	1045.4	1045.4
45°	1019.3	1011.8	996.9	993.2	993.2
47.5°	967.0	959.6	944.6	940.9	940.9
50°	911.0	903.6	892.4	888.6	888.6
52.5°	858.8	847.6	832.6	828.9	828.9
55°	791.6	784.1	772.9	769.2	769.2
57.5°	735.5	724.3	716.9	709.4	709.4
60°	675.8	664.6	657.1	653.4	653.4
62.5°	619.8	604.9	597.4	593.7	597.4
65°	556.3	545.1	541.4	533.9	537.7
67.5°	496.6	485.4	481.7	481.7	489.1
70°	436.8	425.6	429.4	418.2	440.6
72.5°	377.1	369.6	369.6	358.4	369.6
75°	321.1	309.9	306.2	302.4	306.2
77.5°	261.4	257.6	253.9	246.4	250.2
80°	201.6	209.1	197.9	186.7	190.4
82.5°	149.3	145.6	138.1	134.4	138.1
85°	93.3	93.3	89.6	85.9	89.6
87.5°	44.8	44.8	41.1	41.1	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)