

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: P601322

Luminaire Tested: 14CGSB-50-L930

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601322
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-L930
Description: 1x4 CGSB AT 5000lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

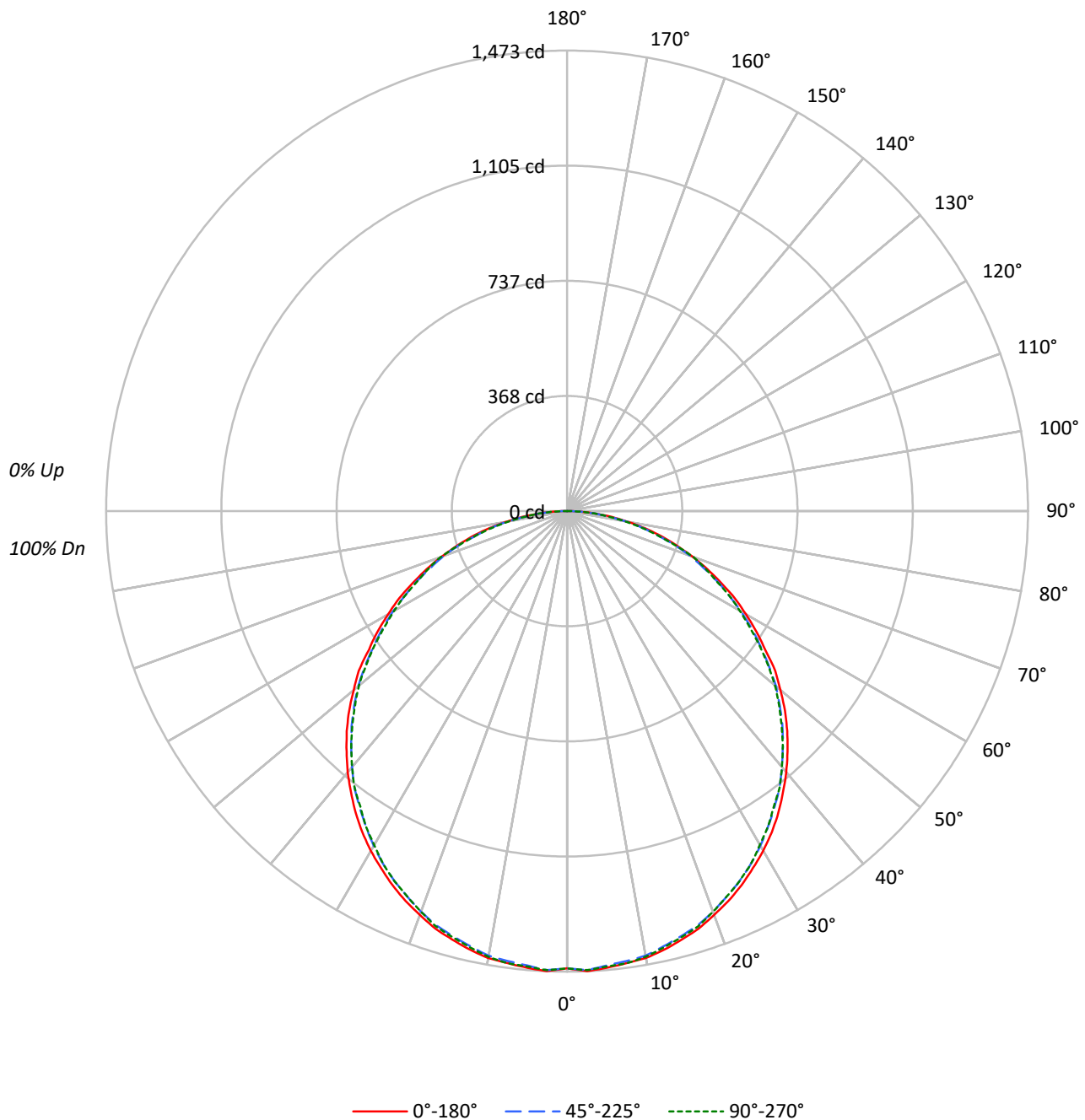
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4244.5 lumens
Efficiency: N/A
Efficacy: 72.9 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: P601322
CATALOG NUMBER: 14CGSB-50-L930

Luminous Intensity Polar Plot



TEST NUMBER: P601322

CATALOG NUMBER: 14CGSB-50-L930

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3934	3934	3934
5°	3959	3940	3949
10°	3965	3945	3955
15°	3951	3921	3931
20°	3936	3905	3905
25°	3919	3875	3875
30°	3897	3841	3829
35°	3869	3797	3785
40°	3829	3752	3752
45°	3788	3705	3691
50°	3724	3648	3633
55°	3626	3541	3524
60°	3552	3454	3434
65°	3459	3366	3343
70°	3356	3299	3385
75°	3260	3109	3109
80°	3051	2994	2881
85°	2813	2702	2702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3788 cd/sqm

TEST NUMBER: P601322
 CATALOG NUMBER: 14CGSB-50-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	3.3
10°-20°	398.5	9.4
20°-30°	602.9	14.2
30°-40°	726.5	17.1
40°-50°	754.4	17.8
50°-60°	679.4	16.0
60°-70°	525.0	12.4
70°-80°	319.9	7.5
80°-90°	98.9	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°	1140.5	26.9
0°-40°	1867.0	44.0
0°-60°	3300.8	77.8
0°-90°	4244.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4244.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1466	1462	1458	1458	1462	139
15°	1418	1415	1407	1407	1411	401
25°	1320	1316	1305	1302	1305	608
35°	1178	1170	1156	1152	1152	736
45°	995	988	974	970	970	767
55°	773	766	755	751	751	694
65°	543	532	529	521	525	539
75°	314	303	299	295	299	329
85°	91	91	88	84	88	103
90°	0	0	0	0	0	

TEST NUMBER: P601322

CATALOG NUMBER: 14CGSB-50-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.0	1462.0	1462.0	1462.0	1462.0
2.5°	1472.9	1472.9	1469.3	1469.3	1469.3
5°	1465.6	1462.0	1458.4	1458.4	1462.0
7.5°	1458.4	1458.4	1451.1	1451.1	1458.4
10°	1451.1	1447.4	1443.8	1443.8	1447.4
12.5°	1436.5	1432.8	1425.5	1425.5	1429.2
15°	1418.3	1414.6	1407.3	1407.3	1411.0
17.5°	1400.0	1396.4	1389.1	1389.1	1392.7
20°	1374.5	1370.9	1363.6	1359.9	1363.6
22.5°	1349.0	1345.3	1334.4	1330.8	1334.4
25°	1319.8	1316.2	1305.2	1301.6	1305.2
27.5°	1287.0	1283.4	1272.4	1268.8	1272.4
30°	1254.2	1246.9	1236.0	1228.7	1232.3
32.5°	1217.7	1210.4	1195.9	1192.2	1195.9
35°	1177.6	1170.3	1155.7	1152.1	1152.1
37.5°	1133.9	1130.2	1115.6	1112.0	1115.6
40°	1090.1	1082.8	1068.2	1064.6	1068.2
42.5°	1042.7	1035.4	1020.8	1020.8	1020.8
45°	995.3	988.0	973.5	969.8	969.8
47.5°	944.3	937.0	922.4	918.8	918.8
50°	889.6	882.3	871.4	867.7	867.7
52.5°	838.6	827.6	813.0	809.4	809.4
55°	772.9	765.6	754.7	751.1	751.1
57.5°	718.2	707.3	700.0	692.7	692.7
60°	659.9	649.0	641.7	638.0	638.0
62.5°	605.2	590.6	583.3	579.7	583.3
65°	543.2	532.3	528.7	521.4	525.0
67.5°	484.9	474.0	470.3	470.3	477.6
70°	426.6	415.6	419.3	408.3	430.2
72.5°	368.2	360.9	360.9	350.0	360.9
75°	313.5	302.6	299.0	295.3	299.0
77.5°	255.2	251.6	247.9	240.6	244.3
80°	196.9	204.2	193.2	182.3	185.9
82.5°	145.8	142.2	134.9	131.3	134.9
85°	91.1	91.1	87.5	83.9	87.5
87.5°	43.8	43.8	40.1	40.1	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)