

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: P601347

Luminaire Tested: 14CGSB-70-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601347
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-70-L935
Description: 1x4 CGSB AT 7000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

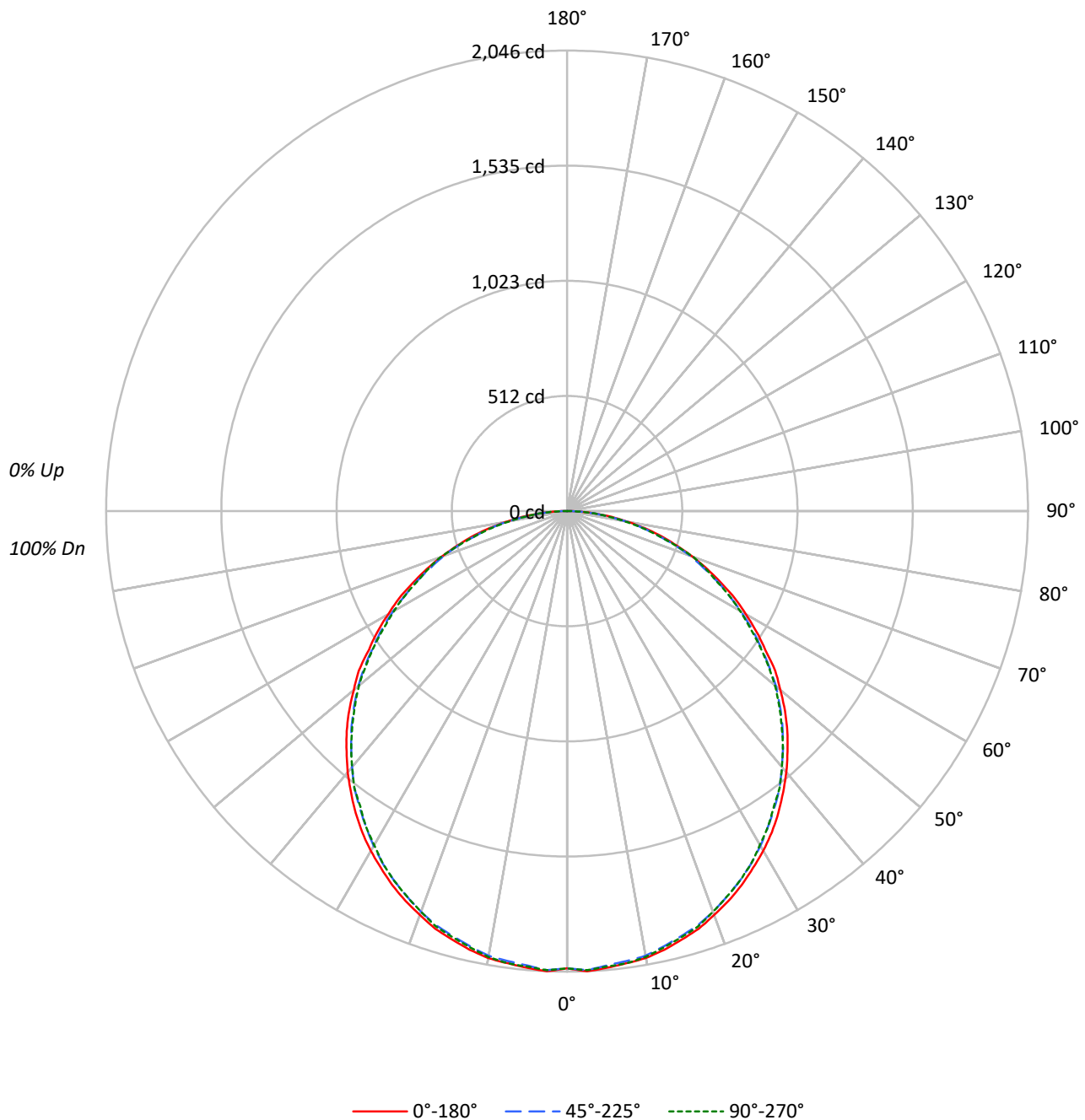
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5896.5 lumens
Efficiency: N/A
Efficacy: 78.8 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): 74.8
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

TEST NUMBER: P601347
CATALOG NUMBER: 14CGSB-70-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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	33	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5465	5465	5465
5°	5500	5472	5486
10°	5508	5481	5494
15°	5489	5446	5461
20°	5468	5425	5425
25°	5444	5384	5384
30°	5414	5335	5319
35°	5374	5275	5258
40°	5320	5213	5213
45°	5262	5146	5127
50°	5174	5068	5046
55°	5037	4919	4895
60°	4934	4797	4770
65°	4805	4676	4644
70°	4663	4583	4703
75°	4529	4318	4318
80°	4238	4159	4003
85°	3909	3754	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5262 cd/sqm

TEST NUMBER: P601347
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	3.3
10°-20°	553.6	9.4
20°-30°	837.6	14.2
30°-40°	1009.3	17.1
40°-50°	1048.0	17.8
50°-60°	943.8	16.0
60°-70°	729.3	12.4
70°-80°	444.4	7.5
80°-90°	137.4	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°	1584.3	26.9
0°-40°	2593.6	44.0
0°-60°	4585.5	77.8
0°-90°	5896.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5896.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2031	2031	2031	2031	2031	
5°	2036	2031	2026	2026	2031	194
15°	1970	1965	1955	1955	1960	556
25°	1834	1828	1813	1808	1813	845
35°	1636	1626	1606	1600	1600	1023
45°	1383	1373	1352	1347	1347	1065
55°	1074	1064	1048	1043	1043	964
65°	755	740	734	724	729	748
75°	436	420	415	410	415	458
85°	127	127	122	116	122	143
90°	0	0	0	0	0	

TEST NUMBER: P601347

CATALOG NUMBER: 14CGSB-70-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2031.0	2031.0	2031.0	2031.0	2031.0
2.5°	2046.2	2046.2	2041.1	2041.1	2041.1
5°	2036.1	2031.0	2025.9	2025.9	2031.0
7.5°	2025.9	2025.9	2015.8	2015.8	2025.9
10°	2015.8	2010.7	2005.7	2005.7	2010.7
12.5°	1995.6	1990.5	1980.4	1980.4	1985.4
15°	1970.2	1965.2	1955.0	1955.0	1960.1
17.5°	1944.9	1939.8	1929.7	1929.7	1934.8
20°	1909.4	1904.4	1894.3	1889.2	1894.3
22.5°	1874.0	1868.9	1853.7	1848.7	1853.7
25°	1833.5	1828.4	1813.2	1808.2	1813.2
27.5°	1787.9	1782.8	1767.6	1762.6	1767.6
30°	1742.3	1732.2	1717.0	1706.9	1711.9
32.5°	1691.7	1681.5	1661.3	1656.2	1661.3
35°	1635.9	1625.8	1605.6	1600.5	1600.5
37.5°	1575.2	1570.1	1549.8	1544.8	1549.8
40°	1514.4	1504.3	1484.0	1478.9	1484.0
42.5°	1448.5	1438.4	1418.2	1418.2	1418.2
45°	1382.7	1372.6	1352.3	1347.2	1347.2
47.5°	1311.8	1301.7	1281.4	1276.3	1276.3
50°	1235.8	1225.7	1210.5	1205.4	1205.4
52.5°	1164.9	1149.7	1129.5	1124.4	1124.4
55°	1073.7	1063.6	1048.4	1043.4	1043.4
57.5°	997.8	982.6	972.5	962.3	962.3
60°	916.7	901.5	891.4	886.3	886.3
62.5°	840.8	820.5	810.4	805.3	810.4
65°	754.7	739.5	734.4	724.3	729.3
67.5°	673.6	658.4	653.4	653.4	663.5
70°	592.6	577.4	582.5	567.3	597.7
72.5°	511.5	501.4	501.4	486.2	501.4
75°	435.6	420.4	415.3	410.3	415.3
77.5°	354.5	349.5	344.4	334.3	339.3
80°	273.5	283.6	268.4	253.2	258.3
82.5°	202.6	197.5	187.4	182.3	187.4
85°	126.6	126.6	121.6	116.5	121.6
87.5°	60.8	60.8	55.7	55.7	60.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)