

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: P601348

Luminaire Tested: 14CGSB-70-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601348
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-L940
Description: 1x4 CGSB AT 7000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

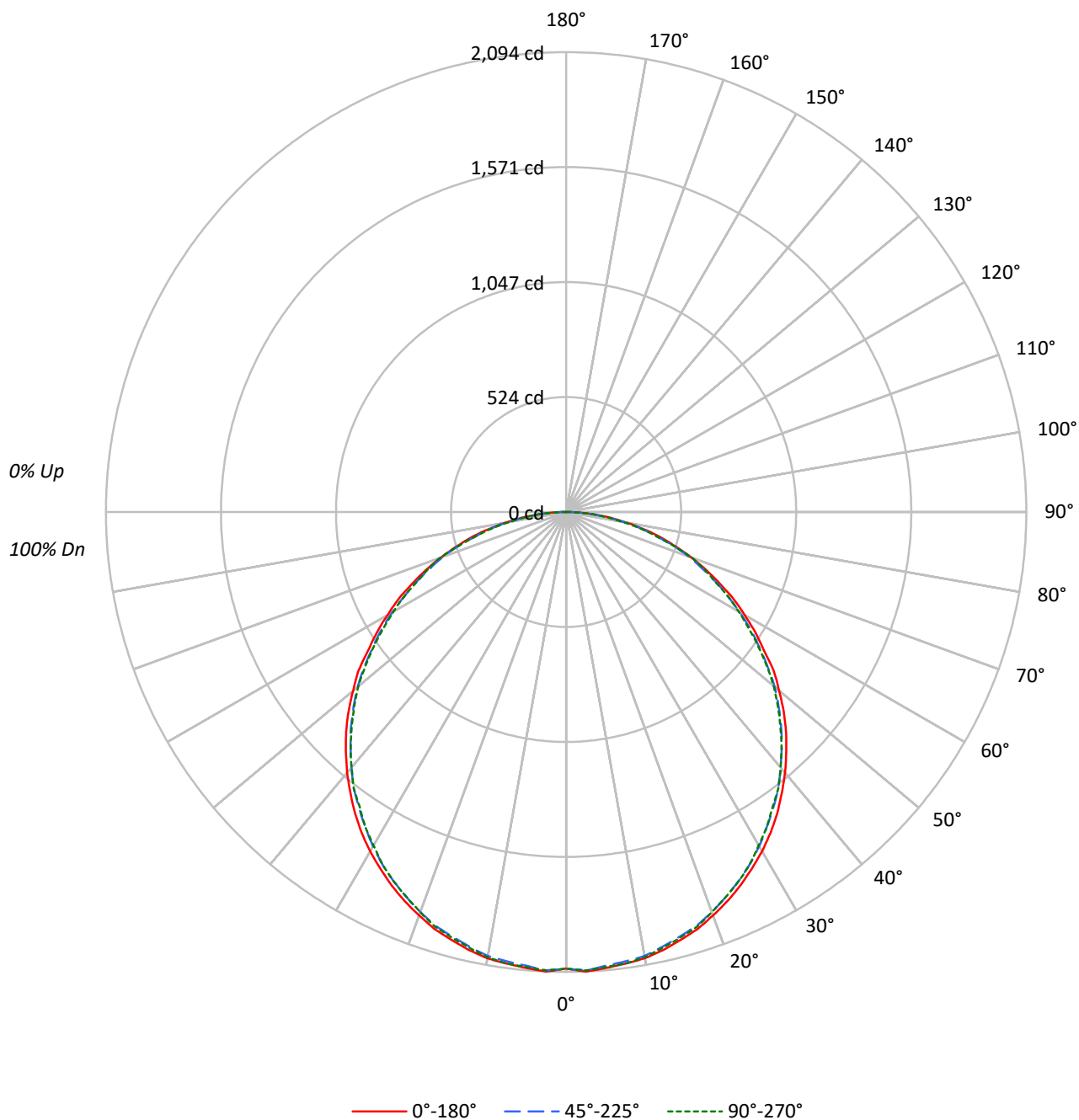
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6035.2 lumens
Efficiency: N/A
Efficacy: 80.7 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): 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

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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				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°	5594	5594	5594
5°	5629	5601	5615
10°	5638	5610	5624
15°	5618	5575	5589
20°	5597	5552	5552
25°	5572	5510	5510
30°	5541	5461	5445
35°	5501	5398	5382
40°	5445	5336	5336
45°	5386	5267	5248
50°	5295	5187	5165
55°	5156	5035	5010
60°	5050	4910	4883
65°	4918	4786	4753
70°	4772	4691	4813
75°	4635	4420	4420
80°	4338	4259	4097
85°	4001	3841	3841

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5386 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	3.3
10°-20°	566.6	9.4
20°-30°	857.3	14.2
30°-40°	1033.1	17.1
40°-50°	1072.7	17.8
50°-60°	966.0	16.0
60°-70°	746.4	12.4
70°-80°	454.8	7.5
80°-90°	140.6	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°	1621.6	26.9
0°-40°	2654.7	44.0
0°-60°	4693.4	77.8
0°-90°	6035.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6035.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2079	2079	2079	2079	2079	
5°	2084	2079	2074	2074	2079	198
15°	2017	2011	2001	2001	2006	570
25°	1877	1871	1856	1851	1856	865
35°	1674	1664	1643	1638	1638	1047
45°	1415	1405	1384	1379	1379	1091
55°	1099	1089	1073	1068	1068	987
65°	772	757	752	741	746	766
75°	446	430	425	420	425	468
85°	130	130	124	119	124	147
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2078.8	2078.8	2078.8	2078.8	2078.8
2.5°	2094.3	2094.3	2089.2	2089.2	2089.2
5°	2084.0	2078.8	2073.6	2073.6	2078.8
7.5°	2073.6	2073.6	2063.2	2063.2	2073.6
10°	2063.2	2058.1	2052.9	2052.9	2058.1
12.5°	2042.5	2037.3	2027.0	2027.0	2032.1
15°	2016.6	2011.4	2001.0	2001.0	2006.2
17.5°	1990.7	1985.5	1975.1	1975.1	1980.3
20°	1954.4	1949.2	1938.8	1933.6	1938.8
22.5°	1918.1	1912.9	1897.4	1892.2	1897.4
25°	1876.6	1871.4	1855.9	1850.7	1855.9
27.5°	1830.0	1824.8	1809.2	1804.0	1809.2
30°	1783.3	1772.9	1757.4	1747.0	1752.2
32.5°	1731.5	1721.1	1700.4	1695.2	1700.4
35°	1674.4	1664.1	1643.3	1638.2	1638.2
37.5°	1612.2	1607.0	1586.3	1581.1	1586.3
40°	1550.0	1539.7	1518.9	1513.7	1518.9
42.5°	1482.6	1472.3	1451.5	1451.5	1451.5
45°	1415.2	1404.9	1384.1	1378.9	1378.9
47.5°	1342.7	1332.3	1311.6	1306.4	1306.4
50°	1264.9	1254.5	1239.0	1233.8	1233.8
52.5°	1192.3	1176.8	1156.0	1150.9	1150.9
55°	1099.0	1088.6	1073.1	1067.9	1067.9
57.5°	1021.3	1005.7	995.3	985.0	985.0
60°	938.3	922.8	912.4	907.2	907.2
62.5°	860.5	839.8	829.4	824.3	829.4
65°	772.4	756.9	751.7	741.3	746.5
67.5°	689.5	673.9	668.7	668.7	679.1
70°	606.5	591.0	596.2	580.6	611.7
72.5°	523.6	513.2	513.2	497.7	513.2
75°	445.8	430.3	425.1	419.9	425.1
77.5°	362.9	357.7	352.5	342.1	347.3
80°	279.9	290.3	274.8	259.2	264.4
82.5°	207.4	202.2	191.8	186.6	191.8
85°	129.6	129.6	124.4	119.2	124.4
87.5°	62.2	62.2	57.0	57.0	62.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)