

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: P601349

Luminaire Tested: 14CGSB-70-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601349
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-L950
Description: 1x4 CGSB AT 7000lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

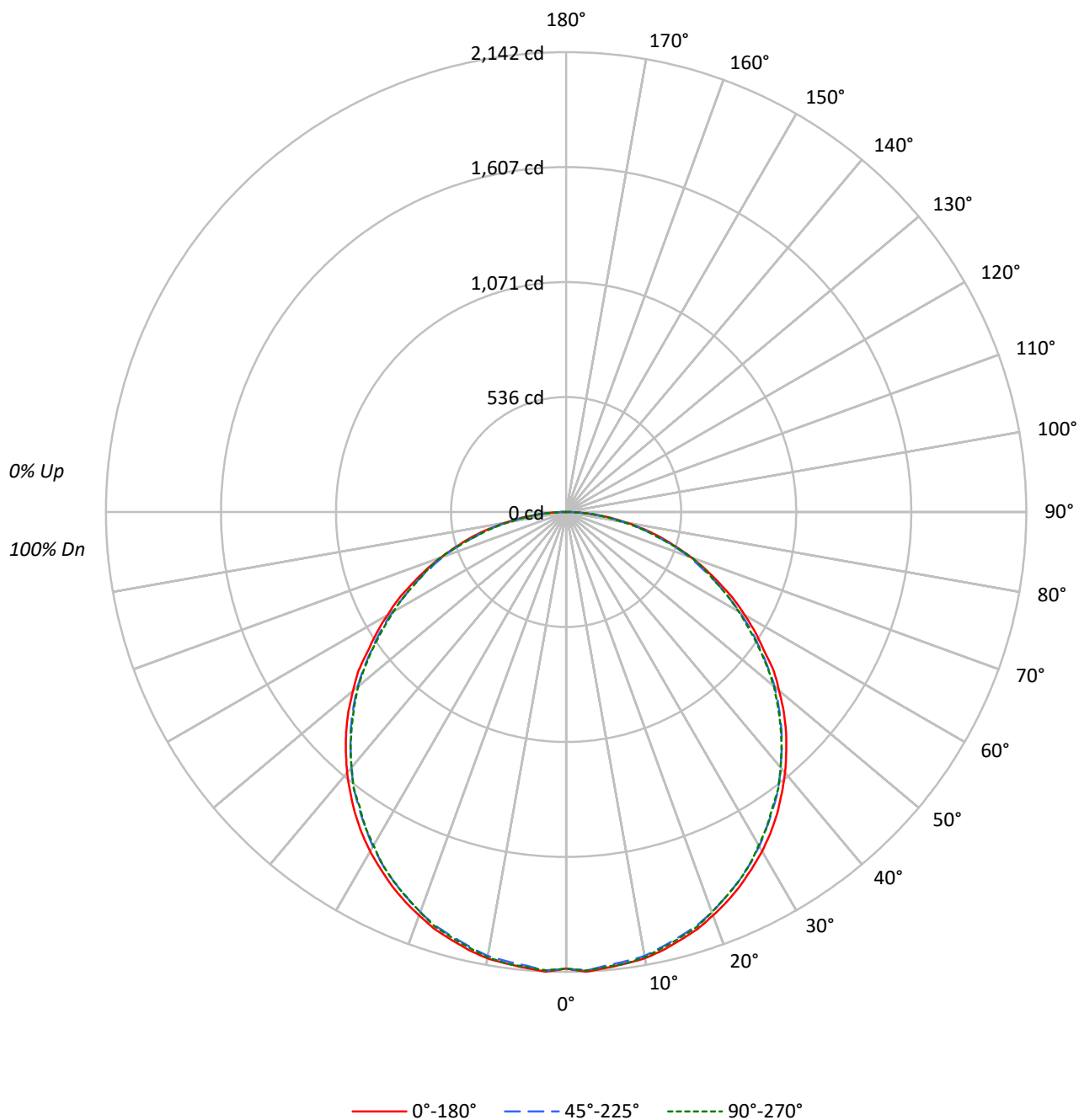
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6174.0 lumens
Efficiency: N/A
Efficacy: 82.5 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		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°	5723	5723	5723
5°	5759	5730	5744
10°	5767	5739	5753
15°	5747	5703	5718
20°	5725	5680	5680
25°	5700	5637	5637
30°	5669	5586	5570
35°	5627	5523	5505
40°	5570	5458	5458
45°	5510	5389	5368
50°	5417	5306	5284
55°	5275	5150	5126
60°	5166	5024	4995
65°	5032	4897	4863
70°	4882	4799	4924
75°	4742	4522	4522
80°	4438	4356	4192
85°	4094	3930	3930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	3.3
10°-20°	579.6	9.4
20°-30°	877.0	14.2
30°-40°	1056.8	17.1
40°-50°	1097.4	17.8
50°-60°	988.2	16.0
60°-70°	763.6	12.4
70°-80°	465.3	7.5
80°-90°	143.8	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°	1658.9	26.9
0°-40°	2715.7	44.0
0°-60°	4801.3	77.8
0°-90°	6174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2127	2127	2127	2127	2127	
5°	2132	2127	2121	2121	2127	203
15°	2063	2058	2047	2047	2052	583
25°	1920	1914	1898	1893	1898	885
35°	1713	1702	1681	1676	1676	1071
45°	1448	1437	1416	1411	1411	1116
55°	1124	1114	1098	1092	1092	1010
65°	790	774	769	758	764	783
75°	456	440	435	430	435	479
85°	133	133	127	122	127	150
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2126.6	2126.6	2126.6	2126.6	2126.6
2.5°	2142.5	2142.5	2137.2	2137.2	2137.2
5°	2131.9	2126.6	2121.3	2121.3	2126.6
7.5°	2121.3	2121.3	2110.7	2110.7	2121.3
10°	2110.7	2105.4	2100.1	2100.1	2105.4
12.5°	2089.5	2084.2	2073.5	2073.5	2078.9
15°	2062.9	2057.6	2047.0	2047.0	2052.3
17.5°	2036.4	2031.1	2020.5	2020.5	2025.8
20°	1999.3	1994.0	1983.4	1978.1	1983.4
22.5°	1962.2	1956.9	1941.0	1935.7	1941.0
25°	1919.8	1914.5	1898.5	1893.2	1898.5
27.5°	1872.0	1866.7	1850.8	1845.5	1850.8
30°	1824.3	1813.7	1797.8	1787.2	1792.5
32.5°	1771.3	1760.7	1739.4	1734.1	1739.4
35°	1712.9	1702.3	1681.1	1675.8	1675.8
37.5°	1649.3	1644.0	1622.8	1617.5	1622.8
40°	1585.7	1575.0	1553.8	1548.5	1553.8
42.5°	1516.7	1506.1	1484.9	1484.9	1484.9
45°	1447.8	1437.2	1416.0	1410.6	1410.6
47.5°	1373.5	1362.9	1341.7	1336.4	1336.4
50°	1294.0	1283.4	1267.5	1262.2	1262.2
52.5°	1219.7	1203.8	1182.6	1177.3	1177.3
55°	1124.3	1113.7	1097.8	1092.5	1092.5
57.5°	1044.7	1028.8	1018.2	1007.6	1007.6
60°	959.9	944.0	933.4	928.1	928.1
62.5°	880.3	859.1	848.5	843.2	848.5
65°	790.2	774.3	769.0	758.4	763.7
67.5°	705.3	689.4	684.1	684.1	694.7
70°	620.5	604.6	609.9	594.0	625.8
72.5°	535.6	525.0	525.0	509.1	525.0
75°	456.1	440.2	434.9	429.6	434.9
77.5°	371.2	365.9	360.6	350.0	355.3
80°	286.4	297.0	281.1	265.2	270.5
82.5°	212.1	206.8	196.2	190.9	196.2
85°	132.6	132.6	127.3	122.0	127.3
87.5°	63.6	63.6	58.3	58.3	63.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)