

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: P601346

Luminaire Tested: 14CGSB-70-L930

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601346
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-L930
Description: 1x4 CGSB AT 7000lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

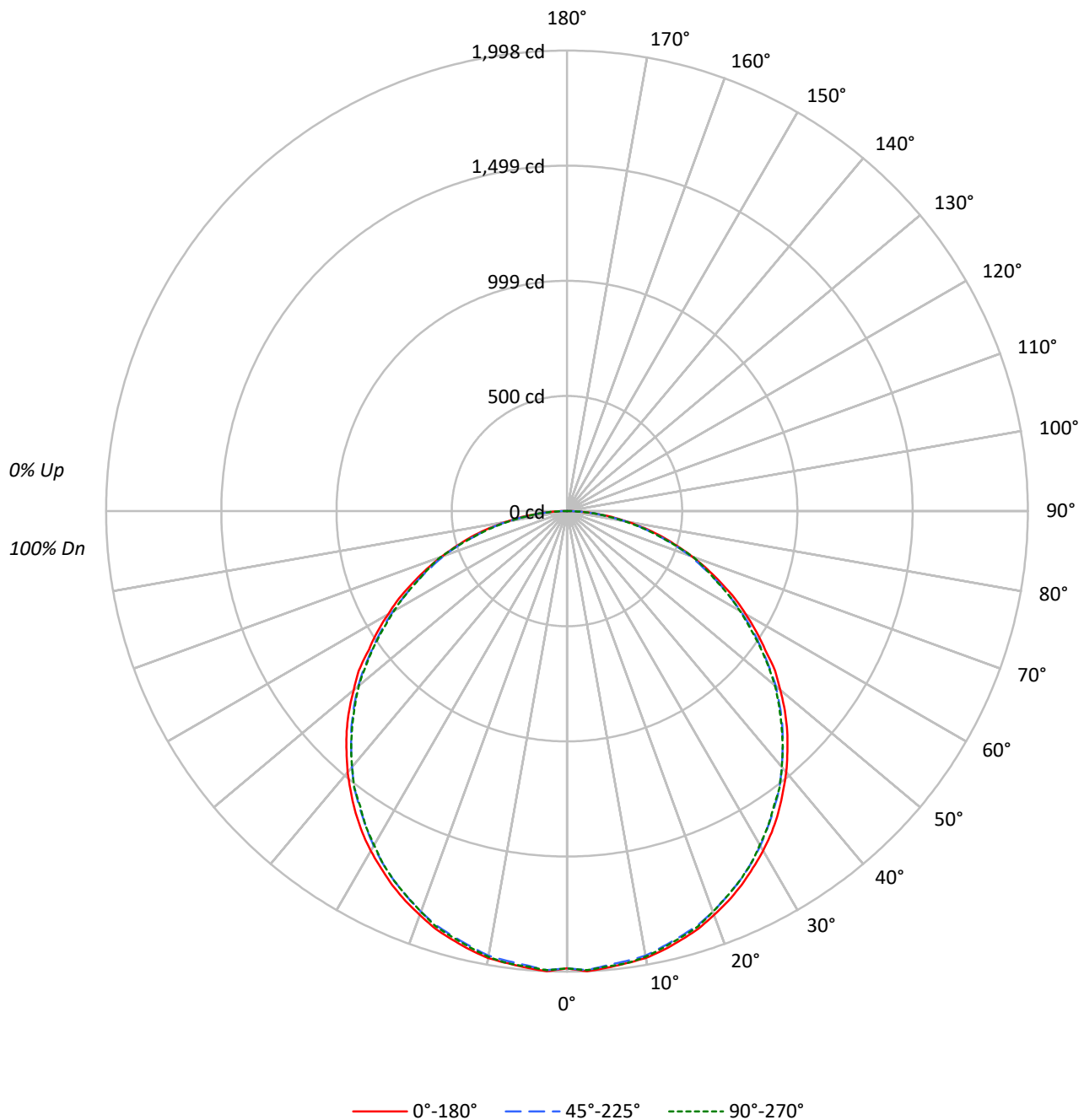
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5757.8 lumens
Efficiency: N/A
Efficacy: 77.0 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°	5337	5337	5337
5°	5371	5344	5357
10°	5379	5352	5365
15°	5360	5318	5332
20°	5339	5297	5297
25°	5316	5257	5257
30°	5286	5210	5194
35°	5248	5150	5134
40°	5195	5090	5090
45°	5138	5025	5006
50°	5052	4948	4928
55°	4919	4803	4780
60°	4818	4684	4658
65°	4692	4566	4535
70°	4552	4475	4592
75°	4422	4216	4216
80°	4139	4062	3908
85°	3816	3665	3665

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	3.3
10°-20°	540.6	9.4
20°-30°	817.9	14.2
30°-40°	985.6	17.1
40°-50°	1023.4	17.8
50°-60°	921.6	16.0
60°-70°	712.1	12.4
70°-80°	433.9	7.5
80°-90°	134.1	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°	1547.1	26.9
0°-40°	2532.6	44.0
0°-60°	4477.6	77.8
0°-90°	5757.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5757.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1983	1983	1983	1983	1983	
5°	1988	1983	1978	1978	1983	189
15°	1924	1919	1909	1909	1914	543
25°	1790	1785	1771	1766	1771	825
35°	1598	1588	1568	1563	1563	999
45°	1350	1340	1320	1316	1316	1040
55°	1048	1039	1024	1019	1019	942
65°	737	722	717	707	712	731
75°	425	410	406	401	406	447
85°	124	124	119	114	119	140
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1998.1	1998.1	1993.1	1993.1	1993.1
5°	1988.2	1983.2	1978.3	1978.3	1983.2
7.5°	1978.3	1978.3	1968.4	1968.4	1978.3
10°	1968.4	1963.4	1958.5	1958.5	1963.4
12.5°	1948.6	1943.7	1933.8	1933.8	1938.7
15°	1923.9	1918.9	1909.0	1909.0	1914.0
17.5°	1899.1	1894.2	1884.3	1884.3	1889.2
20°	1864.5	1859.6	1849.7	1844.7	1849.7
22.5°	1829.9	1825.0	1810.1	1805.2	1810.1
25°	1790.3	1785.4	1770.6	1765.6	1770.6
27.5°	1745.8	1740.9	1726.0	1721.1	1726.0
30°	1701.3	1691.4	1676.6	1666.7	1671.6
32.5°	1651.9	1642.0	1622.2	1617.2	1622.2
35°	1597.5	1587.6	1567.8	1562.8	1562.8
37.5°	1538.1	1533.2	1513.4	1508.4	1513.4
40°	1478.8	1468.9	1449.1	1444.1	1449.1
42.5°	1414.5	1404.6	1384.8	1384.8	1384.8
45°	1350.2	1340.3	1320.5	1315.5	1315.5
47.5°	1280.9	1271.0	1251.3	1246.3	1246.3
50°	1206.7	1196.9	1182.0	1177.1	1177.1
52.5°	1137.5	1122.7	1102.9	1097.9	1097.9
55°	1048.5	1038.6	1023.8	1018.8	1018.8
57.5°	974.3	959.5	949.6	939.7	939.7
60°	895.2	880.3	870.4	865.5	865.5
62.5°	821.0	801.2	791.3	786.4	791.3
65°	736.9	722.1	717.1	707.2	712.2
67.5°	657.8	642.9	638.0	638.0	647.9
70°	578.6	563.8	568.8	553.9	583.6
72.5°	499.5	489.6	489.6	474.8	489.6
75°	425.3	410.5	405.5	400.6	405.5
77.5°	346.2	341.3	336.3	326.4	331.4
80°	267.1	277.0	262.1	247.3	252.2
82.5°	197.8	192.9	183.0	178.0	183.0
85°	123.6	123.6	118.7	113.8	118.7
87.5°	59.3	59.3	54.4	54.4	59.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)