

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: P601340

Luminaire Tested: 14CGSB-60-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601340
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-60-L940
Description: 1x4 CGSB AT 6000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

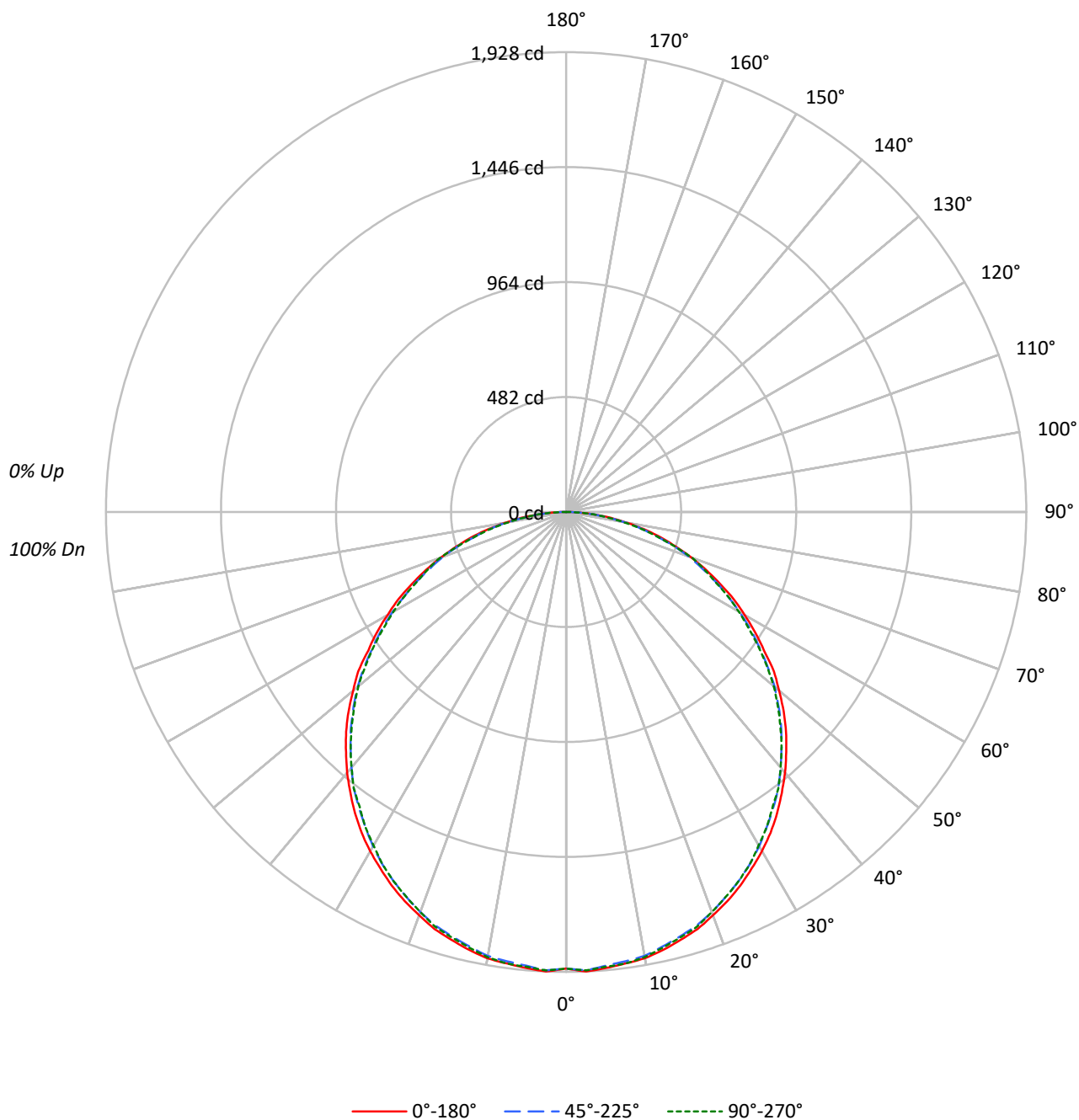
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5556.2 lumens
Efficiency: N/A
Efficacy: 81.3 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): 68.3
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°	5150	5150	5150
5°	5183	5157	5170
10°	5190	5164	5177
15°	5172	5132	5146
20°	5153	5111	5111
25°	5130	5073	5073
30°	5102	5027	5012
35°	5064	4970	4954
40°	5013	4912	4912
45°	4958	4849	4831
50°	4875	4775	4755
55°	4747	4635	4612
60°	4649	4521	4495
65°	4528	4406	4376
70°	4393	4318	4431
75°	4267	4068	4068
80°	3994	3919	3772
85°	3683	3535	3535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4958 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	3.3
10°-20°	521.6	9.4
20°-30°	789.3	14.2
30°-40°	951.1	17.1
40°-50°	987.6	17.8
50°-60°	889.3	16.0
60°-70°	687.2	12.4
70°-80°	418.7	7.5
80°-90°	129.4	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°	1492.9	26.9
0°-40°	2444.0	44.0
0°-60°	4320.9	77.8
0°-90°	5556.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5556.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1914	1914	1914	1914	1914	
5°	1919	1914	1909	1909	1914	182
15°	1856	1852	1842	1842	1847	524
25°	1728	1723	1709	1704	1709	796
35°	1542	1532	1513	1508	1508	964
45°	1303	1293	1274	1270	1270	1004
55°	1012	1002	988	983	983	909
65°	711	697	692	682	687	705
75°	410	396	391	387	391	431
85°	119	119	114	110	114	135
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1913.8	1913.8	1913.8	1913.8	1913.8
2.5°	1928.1	1928.1	1923.3	1923.3	1923.3
5°	1918.6	1913.8	1909.0	1909.0	1913.8
7.5°	1909.0	1909.0	1899.5	1899.5	1909.0
10°	1899.5	1894.7	1889.9	1889.9	1894.7
12.5°	1880.4	1875.6	1866.1	1866.1	1870.8
15°	1856.5	1851.7	1842.2	1842.2	1847.0
17.5°	1832.7	1827.9	1818.3	1818.3	1823.1
20°	1799.3	1794.5	1784.9	1780.2	1784.9
22.5°	1765.8	1761.1	1746.8	1742.0	1746.8
25°	1727.7	1722.9	1708.6	1703.8	1708.6
27.5°	1684.7	1679.9	1665.6	1660.8	1665.6
30°	1641.8	1632.2	1617.9	1608.3	1613.1
32.5°	1594.0	1584.5	1565.4	1560.6	1565.4
35°	1541.5	1532.0	1512.9	1508.1	1508.1
37.5°	1484.3	1479.5	1460.4	1455.6	1460.4
40°	1427.0	1417.4	1398.4	1393.6	1398.4
42.5°	1364.9	1355.4	1336.3	1336.3	1336.3
45°	1302.9	1293.4	1274.3	1269.5	1269.5
47.5°	1236.1	1226.5	1207.5	1202.7	1202.7
50°	1164.5	1155.0	1140.6	1135.9	1135.9
52.5°	1097.7	1083.4	1064.3	1059.5	1059.5
55°	1011.8	1002.2	987.9	983.1	983.1
57.5°	940.2	925.9	916.3	906.8	906.8
60°	863.8	849.5	840.0	835.2	835.2
62.5°	792.2	773.2	763.6	758.8	763.6
65°	711.1	696.8	692.0	682.5	687.2
67.5°	634.7	620.4	615.7	615.7	625.2
70°	558.4	544.1	548.8	534.5	563.2
72.5°	482.0	472.5	472.5	458.2	472.5
75°	410.4	396.1	391.3	386.6	391.3
77.5°	334.1	329.3	324.5	315.0	319.8
80°	257.7	267.3	252.9	238.6	243.4
82.5°	190.9	186.1	176.6	171.8	176.6
85°	119.3	119.3	114.5	109.8	114.5
87.5°	57.3	57.3	52.5	52.5	57.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)