

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: P601332

Luminaire Tested: 14CGSB-55-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601332
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-55-L940
Description: 1x4 CGSB AT 5500lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

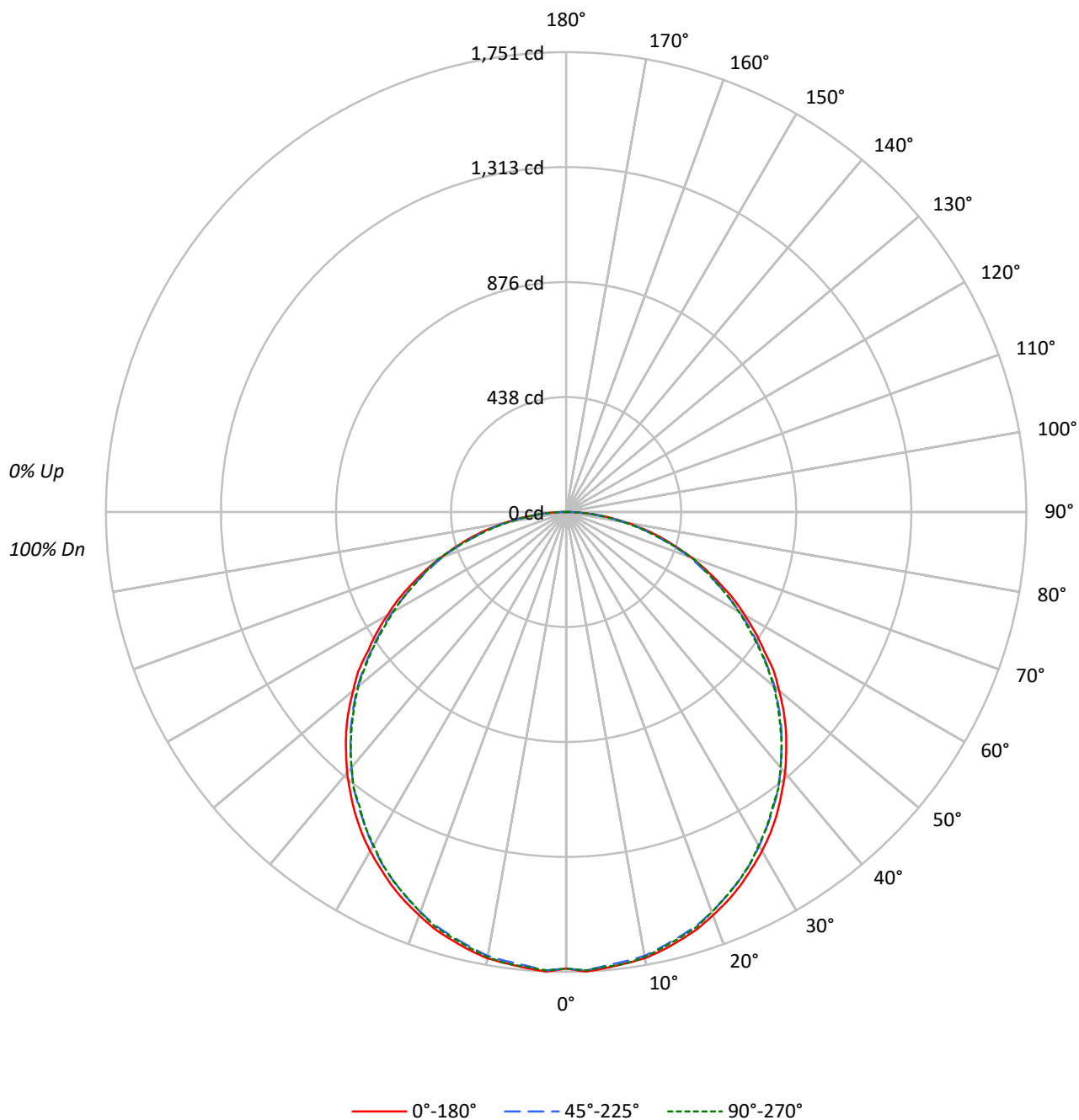
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5046.0 lumens
Efficiency: N/A
Efficacy: 75.8 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): 66.6
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°	4677	4677	4677
5°	4707	4683	4695
10°	4714	4690	4702
15°	4697	4661	4673
20°	4679	4642	4642
25°	4659	4607	4607
30°	4633	4566	4552
35°	4599	4514	4499
40°	4553	4461	4461
45°	4503	4404	4387
50°	4428	4337	4319
55°	4311	4209	4189
60°	4222	4105	4082
65°	4112	4002	3974
70°	3990	3921	4024
75°	3876	3695	3695
80°	3628	3560	3425
85°	3347	3211	3211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	3.3
10°-20°	473.7	9.4
20°-30°	716.8	14.2
30°-40°	863.7	17.1
40°-50°	896.9	17.8
50°-60°	807.7	16.0
60°-70°	624.1	12.4
70°-80°	380.3	7.5
80°-90°	117.6	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°	1355.8	26.9
0°-40°	2219.5	44.0
0°-60°	3924.1	77.8
0°-90°	5046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1742	1738	1734	1734	1738	166
15°	1686	1682	1673	1673	1677	476
25°	1569	1565	1552	1547	1552	723
35°	1400	1391	1374	1370	1370	875
45°	1183	1175	1157	1153	1153	912
55°	919	910	897	893	893	825
65°	646	633	628	620	624	640
75°	373	360	355	351	355	392
85°	108	108	104	100	104	123
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.1	1738.1	1738.1	1738.1	1738.1
2.5°	1751.1	1751.1	1746.7	1746.7	1746.7
5°	1742.4	1738.1	1733.7	1733.7	1738.1
7.5°	1733.7	1733.7	1725.1	1725.1	1733.7
10°	1725.1	1720.7	1716.4	1716.4	1720.7
12.5°	1707.7	1703.4	1694.7	1694.7	1699.0
15°	1686.0	1681.7	1673.0	1673.0	1677.4
17.5°	1664.4	1660.0	1651.4	1651.4	1655.7
20°	1634.0	1629.7	1621.0	1616.7	1621.0
22.5°	1603.7	1599.4	1586.4	1582.0	1586.4
25°	1569.0	1564.7	1551.7	1547.3	1551.7
27.5°	1530.0	1525.7	1512.7	1508.3	1512.7
30°	1491.0	1482.3	1469.3	1460.7	1465.0
32.5°	1447.7	1439.0	1421.7	1417.3	1421.7
35°	1400.0	1391.3	1374.0	1369.6	1369.6
37.5°	1348.0	1343.6	1326.3	1322.0	1326.3
40°	1296.0	1287.3	1270.0	1265.6	1270.0
42.5°	1239.6	1230.9	1213.6	1213.6	1213.6
45°	1183.3	1174.6	1157.3	1152.9	1152.9
47.5°	1122.6	1113.9	1096.6	1092.2	1092.2
50°	1057.6	1048.9	1035.9	1031.6	1031.6
52.5°	996.9	983.9	966.6	962.2	962.2
55°	918.9	910.2	897.2	892.9	892.9
57.5°	853.9	840.9	832.2	823.5	823.5
60°	784.5	771.5	762.8	758.5	758.5
62.5°	719.5	702.2	693.5	689.2	693.5
65°	645.8	632.8	628.5	619.8	624.1
67.5°	576.5	563.5	559.1	559.1	567.8
70°	507.1	494.1	498.4	485.4	511.4
72.5°	437.8	429.1	429.1	416.1	429.1
75°	372.8	359.7	355.4	351.1	355.4
77.5°	303.4	299.1	294.7	286.1	290.4
80°	234.1	242.7	229.7	216.7	221.0
82.5°	173.4	169.0	160.4	156.0	160.4
85°	108.4	108.4	104.0	99.7	104.0
87.5°	52.0	52.0	47.7	47.7	52.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)