

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: P601333

Luminaire Tested: 14CGSB-55-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601333
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-L950
Description: 1x4 CGSB AT 5500lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

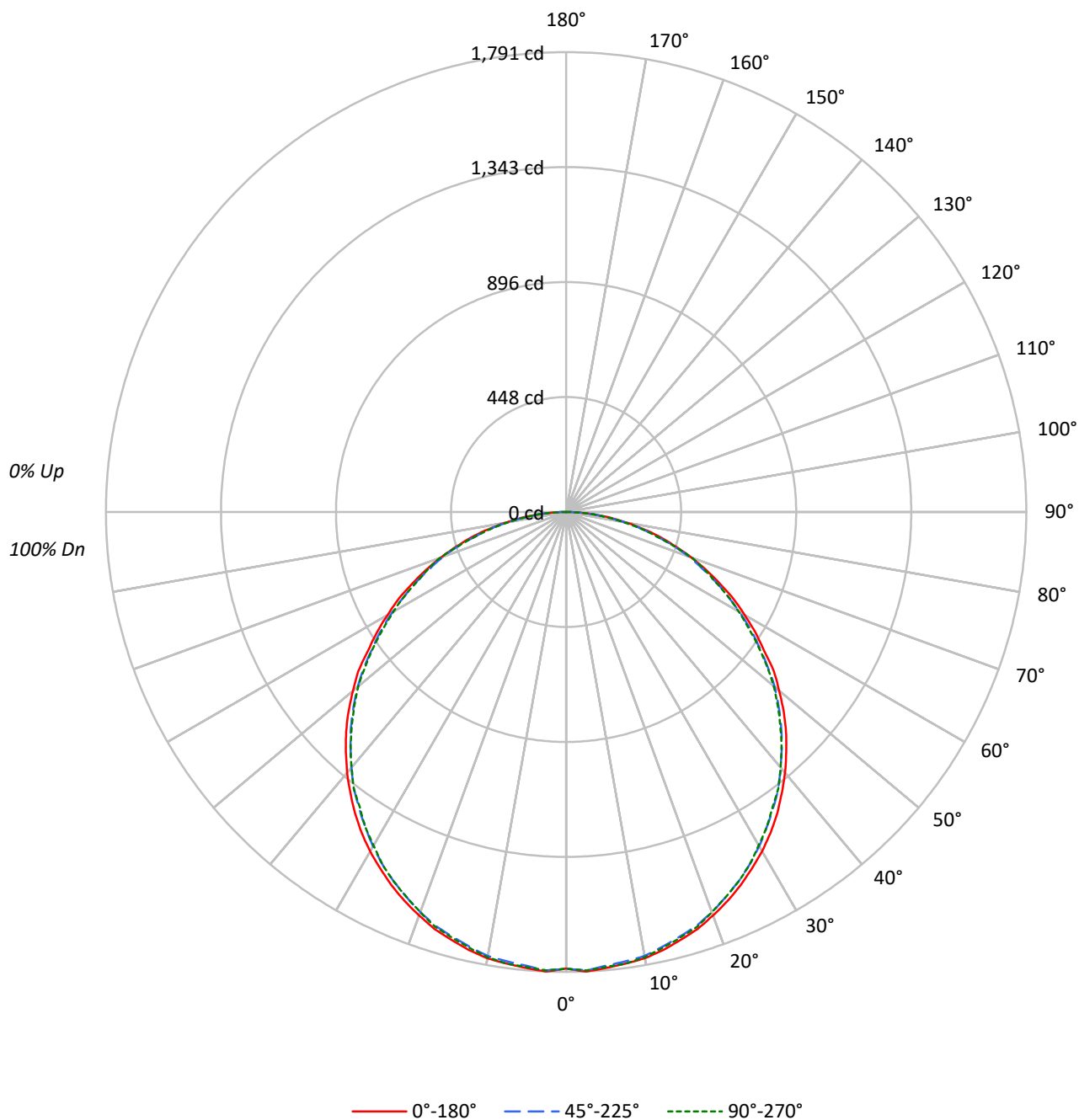
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5162.0 lumens
Efficiency: N/A
Efficacy: 77.5 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): 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°	4785	4785	4785
5°	4815	4791	4803
10°	4822	4798	4810
15°	4805	4768	4780
20°	4787	4749	4749
25°	4766	4713	4713
30°	4740	4671	4657
35°	4705	4618	4603
40°	4657	4564	4564
45°	4607	4505	4488
50°	4529	4436	4418
55°	4410	4306	4285
60°	4319	4200	4176
65°	4207	4094	4066
70°	4082	4012	4116
75°	3964	3780	3780
80°	3710	3642	3504
85°	3421	3285	3285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4607 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	3.3
10°-20°	484.6	9.4
20°-30°	733.3	14.2
30°-40°	883.6	17.1
40°-50°	917.5	17.8
50°-60°	826.2	16.0
60°-70°	638.4	12.4
70°-80°	389.0	7.5
80°-90°	120.3	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°	1387.0	26.9
0°-40°	2270.6	44.0
0°-60°	4014.3	77.8
0°-90°	5162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1782	1778	1774	1774	1778	170
15°	1725	1720	1712	1712	1716	487
25°	1605	1601	1587	1583	1587	740
35°	1432	1423	1406	1401	1401	895
45°	1210	1202	1184	1179	1179	933
55°	940	931	918	913	913	844
65°	661	647	643	634	638	655
75°	381	368	364	359	364	401
85°	111	111	106	102	106	125
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1778.0	1778.0	1778.0	1778.0	1778.0
2.5°	1791.3	1791.3	1786.9	1786.9	1786.9
5°	1782.4	1778.0	1773.6	1773.6	1778.0
7.5°	1773.6	1773.6	1764.7	1764.7	1773.6
10°	1764.7	1760.3	1755.8	1755.8	1760.3
12.5°	1747.0	1742.5	1733.7	1733.7	1738.1
15°	1724.8	1720.4	1711.5	1711.5	1715.9
17.5°	1702.6	1698.2	1689.3	1689.3	1693.8
20°	1671.6	1667.2	1658.3	1653.9	1658.3
22.5°	1640.6	1636.1	1622.8	1618.4	1622.8
25°	1605.1	1600.7	1587.4	1582.9	1587.4
27.5°	1565.2	1560.7	1547.4	1543.0	1547.4
30°	1525.3	1516.4	1503.1	1494.2	1498.7
32.5°	1480.9	1472.1	1454.3	1449.9	1454.3
35°	1432.2	1423.3	1405.6	1401.1	1401.1
37.5°	1379.0	1374.5	1356.8	1352.4	1356.8
40°	1325.8	1316.9	1299.1	1294.7	1299.1
42.5°	1268.1	1259.2	1241.5	1241.5	1241.5
45°	1210.5	1201.6	1183.9	1179.4	1179.4
47.5°	1148.4	1139.5	1121.8	1117.4	1117.4
50°	1081.9	1073.0	1059.7	1055.3	1055.3
52.5°	1019.8	1006.5	988.8	984.3	984.3
55°	940.0	931.1	917.8	913.4	913.4
57.5°	873.5	860.2	851.3	842.5	842.5
60°	802.5	789.2	780.4	775.9	775.9
62.5°	736.0	718.3	709.4	705.0	709.4
65°	660.7	647.4	642.9	634.1	638.5
67.5°	589.7	576.4	572.0	572.0	580.8
70°	518.8	505.5	509.9	496.6	523.2
72.5°	447.8	439.0	439.0	425.7	439.0
75°	381.3	368.0	363.6	359.1	363.6
77.5°	310.4	305.9	301.5	292.6	297.1
80°	239.4	248.3	235.0	221.7	226.1
82.5°	177.4	172.9	164.1	159.6	164.1
85°	110.8	110.8	106.4	102.0	106.4
87.5°	53.2	53.2	48.8	48.8	53.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)