

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: P601327

Luminaire Tested: 14CGSB-55-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601327
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-L835
Description: 1x4 CGSB AT 5500lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

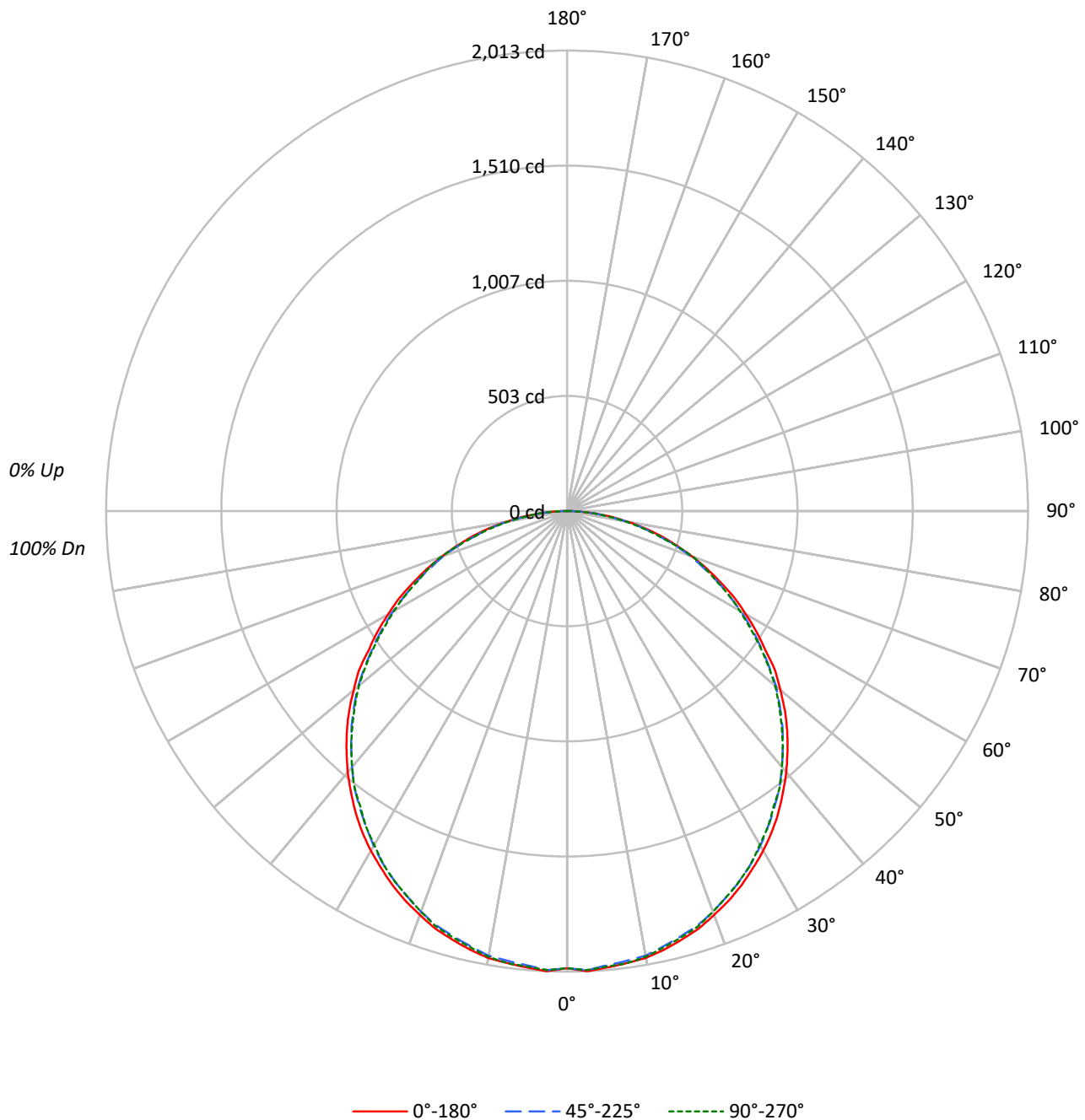
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5800.0 lumens
Efficiency: N/A
Efficacy: 87.1 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°	5376	5376	5376
5°	5410	5383	5397
10°	5418	5391	5404
15°	5399	5357	5371
20°	5379	5336	5336
25°	5355	5296	5296
30°	5325	5248	5232
35°	5286	5188	5172
40°	5233	5128	5128
45°	5176	5062	5043
50°	5089	4985	4964
55°	4955	4838	4815
60°	4853	4719	4692
65°	4727	4600	4568
70°	4586	4508	4626
75°	4454	4247	4247
80°	4169	4091	3938
85°	3844	3693	3693

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	3.3
10°-20°	544.5	9.4
20°-30°	823.9	14.2
30°-40°	992.8	17.1
40°-50°	1030.9	17.8
50°-60°	928.4	16.0
60°-70°	717.3	12.4
70°-80°	437.1	7.5
80°-90°	135.1	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°	1558.4	26.9
0°-40°	2551.2	44.0
0°-60°	4510.5	77.8
0°-90°	5800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1998	1998	1998	1998	1998	
5°	2003	1998	1993	1993	1998	191
15°	1938	1933	1923	1923	1928	547
25°	1804	1798	1784	1779	1784	831
35°	1609	1599	1579	1574	1574	1006
45°	1360	1350	1330	1325	1325	1048
55°	1056	1046	1031	1026	1026	949
65°	742	727	722	712	717	736
75°	428	414	408	404	408	450
85°	124	124	120	115	120	141
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1997.8	1997.8	1997.8	1997.8	1997.8
2.5°	2012.7	2012.7	2007.7	2007.7	2007.7
5°	2002.7	1997.8	1992.8	1992.8	1997.8
7.5°	1992.8	1992.8	1982.8	1982.8	1992.8
10°	1982.8	1977.8	1972.9	1972.9	1977.8
12.5°	1962.9	1957.9	1947.9	1947.9	1952.9
15°	1938.0	1933.0	1923.0	1923.0	1928.0
17.5°	1913.1	1908.1	1898.1	1898.1	1903.1
20°	1878.2	1873.2	1863.3	1858.3	1863.3
22.5°	1843.3	1838.3	1823.4	1818.4	1823.4
25°	1803.5	1798.5	1783.5	1778.6	1783.5
27.5°	1758.6	1753.7	1738.7	1733.7	1738.7
30°	1713.8	1703.8	1688.9	1678.9	1683.9
32.5°	1664.0	1654.0	1634.1	1629.1	1634.1
35°	1609.2	1599.2	1579.3	1574.3	1574.3
37.5°	1549.4	1544.4	1524.5	1519.5	1524.5
40°	1489.6	1479.6	1459.7	1454.7	1459.7
42.5°	1424.8	1414.9	1395.0	1395.0	1395.0
45°	1360.1	1350.1	1330.2	1325.2	1325.2
47.5°	1290.3	1280.4	1260.4	1255.5	1255.5
50°	1215.6	1205.6	1190.7	1185.7	1185.7
52.5°	1145.9	1130.9	1111.0	1106.0	1106.0
55°	1056.2	1046.2	1031.3	1026.3	1026.3
57.5°	981.4	966.5	956.5	946.6	946.6
60°	901.7	886.8	876.8	871.8	871.8
62.5°	827.0	807.1	797.1	792.1	797.1
65°	742.3	727.4	722.4	712.4	717.4
67.5°	662.6	647.7	642.7	642.7	652.6
70°	582.9	567.9	572.9	558.0	587.9
72.5°	503.2	493.2	493.2	478.3	493.2
75°	428.4	413.5	408.5	403.5	408.5
77.5°	348.7	343.8	338.8	328.8	333.8
80°	269.0	279.0	264.0	249.1	254.1
82.5°	199.3	194.3	184.3	179.4	184.3
85°	124.5	124.5	119.6	114.6	119.6
87.5°	59.8	59.8	54.8	54.8	59.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)