

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: P601319

Luminaire Tested: 14CGSB-50-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601319
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-50-L835
Description: 1x4 CGSB AT 5000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

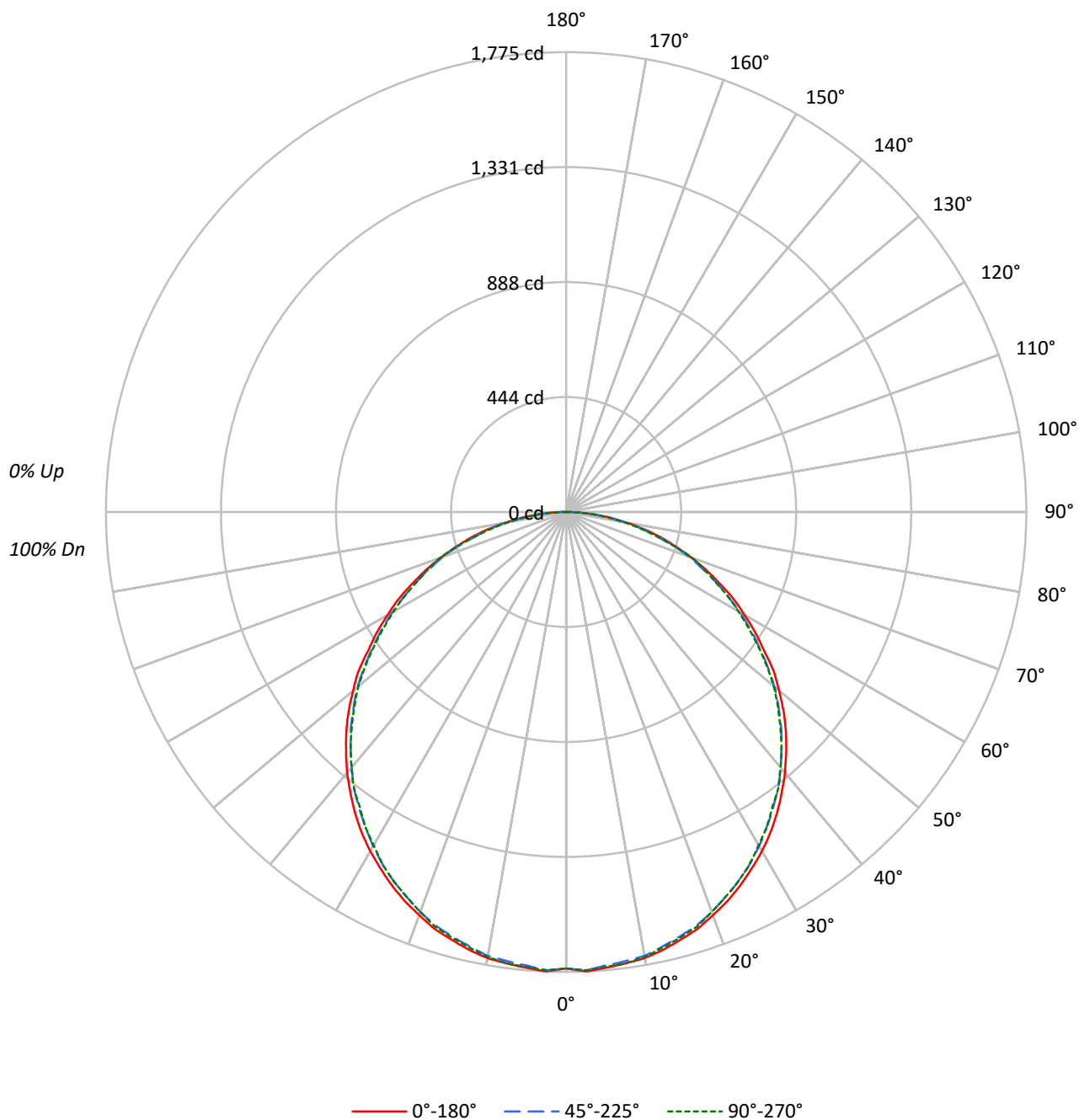
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5113.9 lumens
Efficiency: N/A
Efficacy: 87.9 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): 58.2
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°	4740	4740	4740
5°	4770	4746	4758
10°	4777	4753	4765
15°	4760	4724	4736
20°	4742	4704	4704
25°	4721	4669	4669
30°	4695	4627	4613
35°	4661	4574	4560
40°	4614	4521	4521
45°	4564	4463	4446
50°	4487	4395	4376
55°	4369	4266	4245
60°	4279	4161	4137
65°	4167	4055	4027
70°	4043	3975	4078
75°	3928	3745	3745
80°	3676	3608	3471
85°	3390	3254	3254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4564 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	3.3
10°-20°	480.1	9.4
20°-30°	726.4	14.2
30°-40°	875.4	17.1
40°-50°	908.9	17.8
50°-60°	818.6	16.0
60°-70°	632.5	12.4
70°-80°	385.4	7.5
80°-90°	119.1	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°	1374.1	26.9
0°-40°	2249.4	44.0
0°-60°	3976.9	77.8
0°-90°	5113.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5113.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1766	1761	1757	1757	1761	168
15°	1709	1704	1696	1696	1700	483
25°	1590	1586	1573	1568	1573	733
35°	1419	1410	1392	1388	1388	887
45°	1199	1190	1173	1168	1168	924
55°	931	922	909	905	905	837
65°	654	641	637	628	632	649
75°	378	365	360	356	360	397
85°	110	110	105	101	105	124
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.4	1761.4	1761.4	1761.4	1761.4
2.5°	1774.6	1774.6	1770.2	1770.2	1770.2
5°	1765.8	1761.4	1757.1	1757.1	1761.4
7.5°	1757.1	1757.1	1748.3	1748.3	1757.1
10°	1748.3	1743.9	1739.5	1739.5	1743.9
12.5°	1730.7	1726.3	1717.5	1717.5	1721.9
15°	1708.7	1704.3	1695.6	1695.6	1700.0
17.5°	1686.8	1682.4	1673.6	1673.6	1678.0
20°	1656.0	1651.6	1642.8	1638.5	1642.8
22.5°	1625.3	1620.9	1607.7	1603.3	1607.7
25°	1590.1	1585.7	1572.6	1568.2	1572.6
27.5°	1550.6	1546.2	1533.0	1528.6	1533.0
30°	1511.1	1502.3	1489.1	1480.3	1484.7
32.5°	1467.1	1458.4	1440.8	1436.4	1440.8
35°	1418.8	1410.0	1392.5	1388.1	1388.1
37.5°	1366.1	1361.7	1344.1	1339.8	1344.1
40°	1313.4	1304.6	1287.0	1282.7	1287.0
42.5°	1256.3	1247.5	1229.9	1229.9	1229.9
45°	1199.2	1190.4	1172.8	1168.4	1168.4
47.5°	1137.7	1128.9	1111.3	1106.9	1106.9
50°	1071.8	1063.0	1049.8	1045.4	1045.4
52.5°	1010.3	997.1	979.6	975.2	975.2
55°	931.2	922.5	909.3	904.9	904.9
57.5°	865.4	852.2	843.4	834.6	834.6
60°	795.1	781.9	773.1	768.7	768.7
62.5°	729.2	711.6	702.8	698.4	702.8
65°	654.5	641.3	636.9	628.1	632.5
67.5°	584.2	571.0	566.7	566.7	575.4
70°	513.9	500.8	505.2	492.0	518.3
72.5°	443.7	434.9	434.9	421.7	434.9
75°	377.8	364.6	360.2	355.8	360.2
77.5°	307.5	303.1	298.7	289.9	294.3
80°	237.2	246.0	232.8	219.6	224.0
82.5°	175.7	171.3	162.5	158.1	162.5
85°	109.8	109.8	105.4	101.0	105.4
87.5°	52.7	52.7	48.3	48.3	52.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)