

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: P601325

Luminaire Tested: 14CGSB-50-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601325
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-L950
Description: 1x4 CGSB AT 5000lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

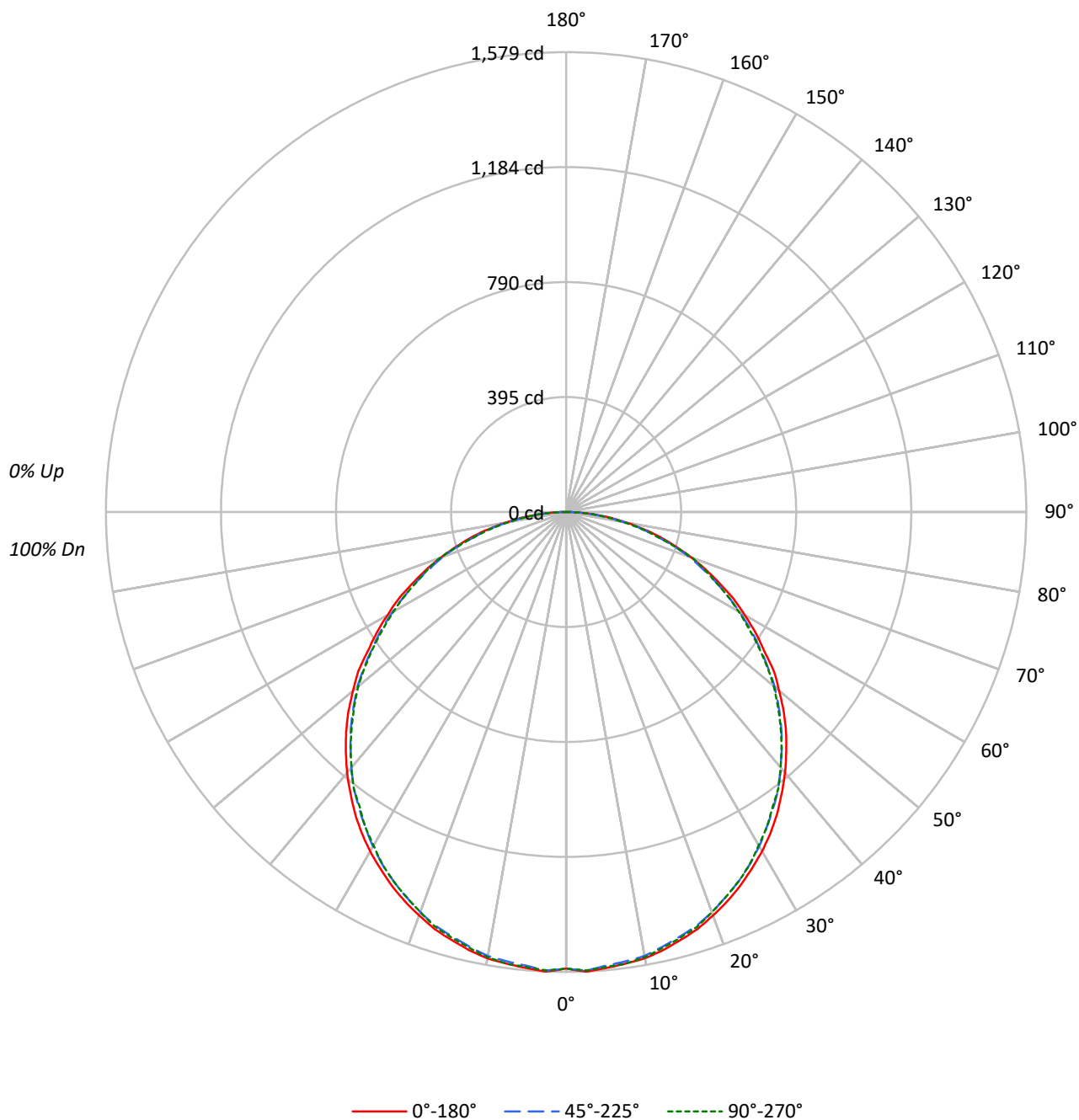
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4551.4 lumens
Efficiency: N/A
Efficacy: 78.2 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		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°	4219	4219	4219
5°	4245	4224	4235
10°	4252	4230	4241
15°	4237	4204	4215
20°	4221	4187	4187
25°	4202	4156	4156
30°	4179	4118	4106
35°	4148	4071	4058
40°	4106	4024	4024
45°	4062	3972	3957
50°	3993	3912	3895
55°	3888	3797	3778
60°	3808	3703	3682
65°	3709	3610	3585
70°	3599	3537	3629
75°	3496	3333	3333
80°	3271	3211	3090
85°	3017	2896	2896

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4062 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.3
10°-20°	427.3	9.4
20°-30°	646.5	14.2
30°-40°	779.1	17.1
40°-50°	809.0	17.8
50°-60°	728.5	16.0
60°-70°	562.9	12.4
70°-80°	343.0	7.5
80°-90°	106.0	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°	1222.9	26.9
0°-40°	2002.0	44.0
0°-60°	3539.4	77.8
0°-90°	4551.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4551.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1572	1568	1564	1564	1568	149
15°	1521	1517	1509	1509	1513	430
25°	1415	1411	1400	1396	1400	652
35°	1263	1255	1239	1235	1235	790
45°	1067	1060	1044	1040	1040	822
55°	829	821	809	805	805	744
65°	582	571	567	559	563	578
75°	336	324	321	317	321	353
85°	98	98	94	90	94	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.7	1567.7	1567.7	1567.7	1567.7
2.5°	1579.4	1579.4	1575.5	1575.5	1575.5
5°	1571.6	1567.7	1563.8	1563.8	1567.7
7.5°	1563.8	1563.8	1556.0	1556.0	1563.8
10°	1556.0	1552.1	1548.1	1548.1	1552.1
12.5°	1540.3	1536.4	1528.6	1528.6	1532.5
15°	1520.8	1516.9	1509.0	1509.0	1513.0
17.5°	1501.2	1497.3	1489.5	1489.5	1493.4
20°	1473.9	1470.0	1462.1	1458.2	1462.1
22.5°	1446.5	1442.6	1430.9	1426.9	1430.9
25°	1415.2	1411.3	1399.6	1395.7	1399.6
27.5°	1380.0	1376.1	1364.4	1360.5	1364.4
30°	1344.9	1337.0	1325.3	1317.5	1321.4
32.5°	1305.8	1297.9	1282.3	1278.4	1282.3
35°	1262.8	1254.9	1239.3	1235.4	1235.4
37.5°	1215.8	1211.9	1196.3	1192.4	1196.3
40°	1168.9	1161.1	1145.5	1141.6	1145.5
42.5°	1118.1	1110.3	1094.6	1094.6	1094.6
45°	1067.3	1059.5	1043.8	1039.9	1039.9
47.5°	1012.5	1004.7	989.1	985.2	985.2
50°	953.9	946.1	934.4	930.4	930.4
52.5°	899.2	887.4	871.8	867.9	867.9
55°	828.8	821.0	809.3	805.3	805.3
57.5°	770.2	758.4	750.6	742.8	742.8
60°	707.6	695.9	688.1	684.2	684.2
62.5°	649.0	633.3	625.5	621.6	625.5
65°	582.5	570.8	566.9	559.1	563.0
67.5°	520.0	508.2	504.3	504.3	512.1
70°	457.4	445.7	449.6	437.9	461.3
72.5°	394.9	387.0	387.0	375.3	387.0
75°	336.2	324.5	320.6	316.7	320.6
77.5°	273.7	269.8	265.8	258.0	261.9
80°	211.1	218.9	207.2	195.5	199.4
82.5°	156.4	152.5	144.6	140.7	144.6
85°	97.7	97.7	93.8	89.9	93.8
87.5°	46.9	46.9	43.0	43.0	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)