

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: P601317

Luminaire Tested: 14CGSB-45-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601317
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-45-L950
Description: 1x4 CGSB AT 4500lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

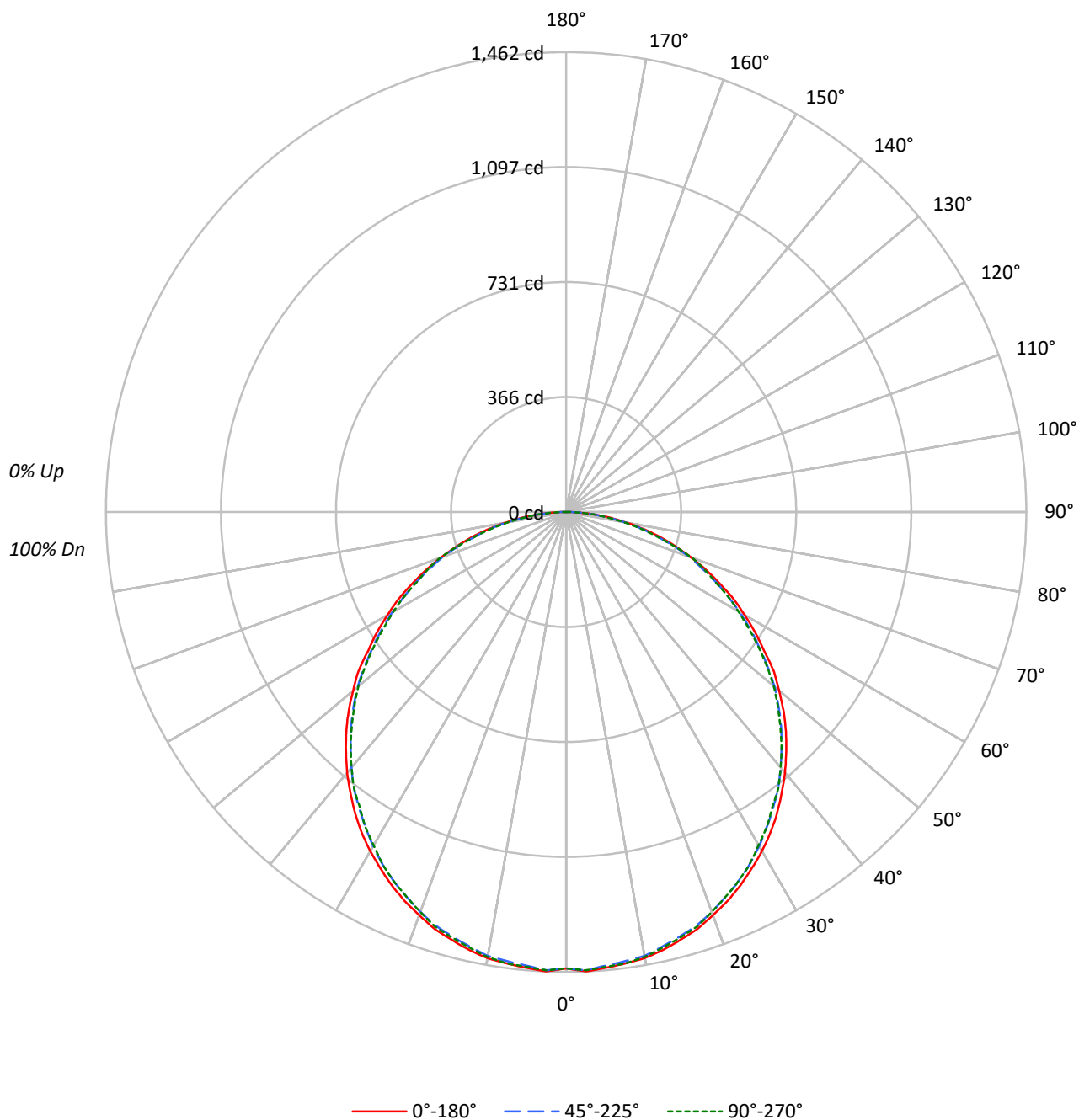
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4212.2 lumens
Efficiency: N/A
Efficacy: 85.1 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): 49.5
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°	3904	3904	3904
5°	3929	3910	3919
10°	3935	3915	3925
15°	3921	3891	3901
20°	3906	3875	3875
25°	3889	3846	3846
30°	3867	3811	3800
35°	3839	3768	3756
40°	3800	3724	3724
45°	3759	3676	3663
50°	3696	3620	3605
55°	3598	3514	3497
60°	3525	3427	3408
65°	3433	3340	3317
70°	3330	3274	3359
75°	3236	3085	3085
80°	3028	2972	2859
85°	2794	2680	2680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3759 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	3.3
10°-20°	395.5	9.4
20°-30°	598.4	14.2
30°-40°	721.0	17.1
40°-50°	748.7	17.8
50°-60°	674.2	16.0
60°-70°	521.0	12.4
70°-80°	317.4	7.5
80°-90°	98.1	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°	1131.8	26.9
0°-40°	1852.8	44.0
0°-60°	3275.7	77.8
0°-90°	4212.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4212.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1454	1451	1447	1447	1451	138
15°	1408	1404	1397	1397	1400	398
25°	1310	1306	1295	1292	1295	604
35°	1169	1161	1147	1143	1143	731
45°	988	980	966	962	962	761
55°	767	760	749	745	745	689
65°	539	528	525	517	521	535
75°	311	300	297	293	297	327
85°	90	90	87	83	87	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.9	1450.9	1450.9	1450.9	1450.9
2.5°	1461.7	1461.7	1458.1	1458.1	1458.1
5°	1454.5	1450.9	1447.3	1447.3	1450.9
7.5°	1447.3	1447.3	1440.0	1440.0	1447.3
10°	1440.0	1436.4	1432.8	1432.8	1436.4
12.5°	1425.6	1421.9	1414.7	1414.7	1418.3
15°	1407.5	1403.8	1396.6	1396.6	1400.2
17.5°	1389.4	1385.8	1378.5	1378.5	1382.1
20°	1364.0	1360.4	1353.2	1349.6	1353.2
22.5°	1338.7	1335.1	1324.2	1320.6	1324.2
25°	1309.8	1306.2	1295.3	1291.7	1295.3
27.5°	1277.2	1273.6	1262.7	1259.1	1262.7
30°	1244.6	1237.4	1226.6	1219.3	1222.9
32.5°	1208.5	1201.2	1186.8	1183.1	1186.8
35°	1168.7	1161.4	1147.0	1143.3	1143.3
37.5°	1125.2	1121.6	1107.2	1103.5	1107.2
40°	1081.8	1074.6	1060.1	1056.5	1060.1
42.5°	1034.8	1027.6	1013.1	1013.1	1013.1
45°	987.8	980.5	966.0	962.4	962.4
47.5°	937.1	929.9	915.4	911.8	911.8
50°	882.8	875.6	864.7	861.1	861.1
52.5°	832.2	821.3	806.8	803.2	803.2
55°	767.0	759.8	749.0	745.3	745.3
57.5°	712.8	701.9	694.7	687.5	687.5
60°	654.9	644.0	636.8	633.2	633.2
62.5°	600.6	586.1	578.9	575.3	578.9
65°	539.1	528.3	524.6	517.4	521.0
67.5°	481.2	470.4	466.7	466.7	474.0
70°	423.3	412.5	416.1	405.2	426.9
72.5°	365.4	358.2	358.2	347.3	358.2
75°	311.2	300.3	296.7	293.1	296.7
77.5°	253.3	249.7	246.0	238.8	242.4
80°	195.4	202.6	191.8	180.9	184.5
82.5°	144.7	141.1	133.9	130.3	133.9
85°	90.5	90.5	86.8	83.2	86.8
87.5°	43.4	43.4	39.8	39.8	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)