

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: P601315

Luminaire Tested: 14CGSB-45-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601315
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-L935
Description: 1x4 CGSB AT 4500lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

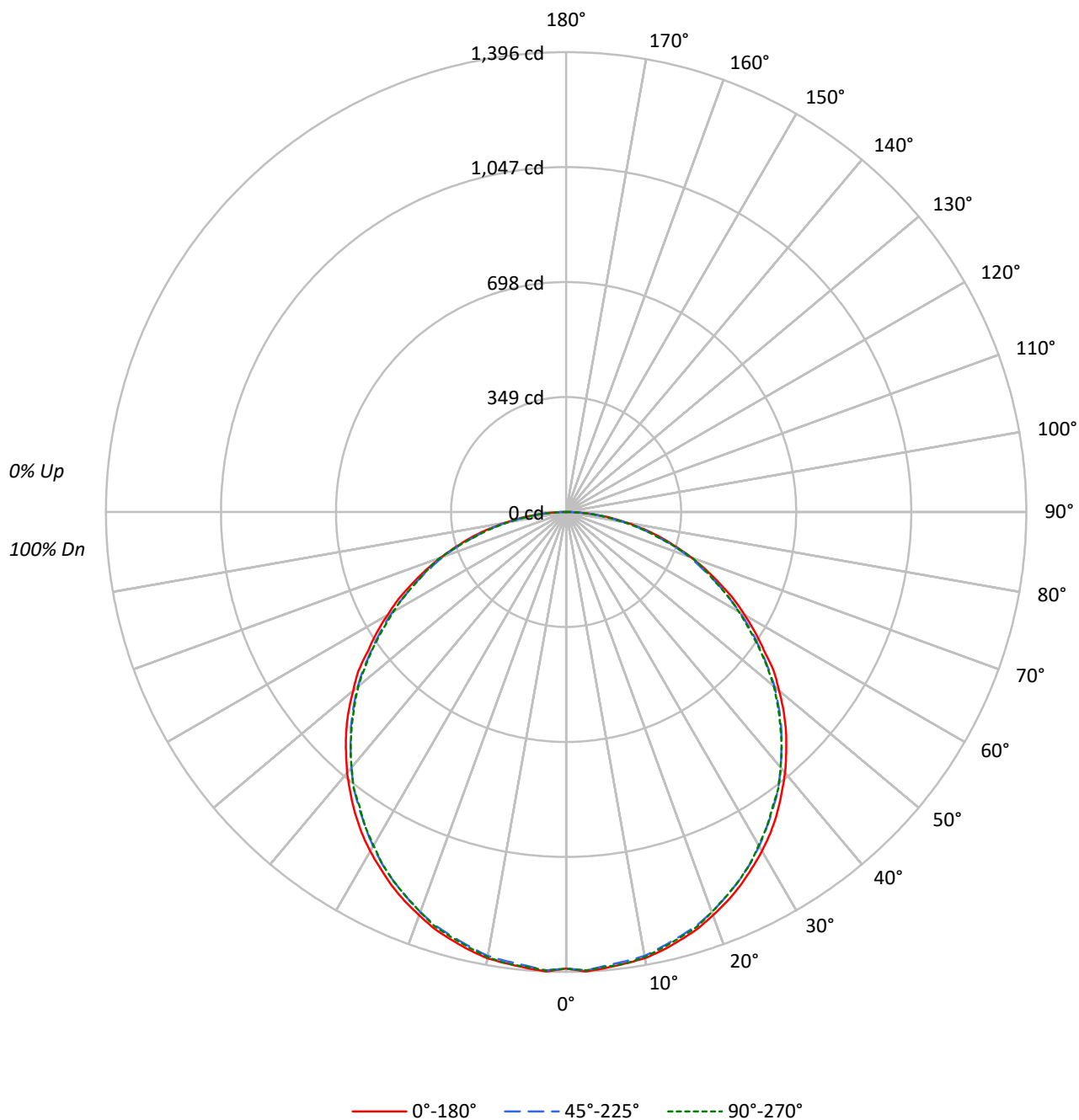
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4023.0 lumens
Efficiency: N/A
Efficacy: 81.3 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

TEST NUMBER: P601315
CATALOG NUMBER: 14CGSB-45-L935

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°	3729	3729	3729
5°	3752	3734	3743
10°	3758	3739	3749
15°	3745	3716	3726
20°	3731	3701	3701
25°	3714	3673	3673
30°	3694	3640	3629
35°	3666	3598	3587
40°	3629	3557	3557
45°	3590	3511	3498
50°	3530	3458	3443
55°	3437	3356	3339
60°	3366	3273	3254
65°	3279	3191	3168
70°	3181	3127	3209
75°	3090	2947	2947
80°	2892	2837	2731
85°	2668	2560	2560

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3590 cd/sqm

TEST NUMBER: P601315
 CATALOG NUMBER: 14CGSB-45-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.3
10°-20°	377.7	9.4
20°-30°	571.5	14.2
30°-40°	688.6	17.1
40°-50°	715.1	17.8
50°-60°	643.9	16.0
60°-70°	497.6	12.4
70°-80°	303.2	7.5
80°-90°	93.7	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°	1080.9	26.9
0°-40°	1769.5	44.0
0°-60°	3128.5	77.8
0°-90°	4023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1389	1386	1382	1382	1386	132
15°	1344	1341	1334	1334	1337	380
25°	1251	1248	1237	1234	1237	576
35°	1116	1109	1095	1092	1092	698
45°	943	936	923	919	919	727
55°	733	726	715	712	712	658
65°	515	504	501	494	498	511
75°	297	287	283	280	283	312
85°	86	86	83	80	83	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.7	1385.7	1385.7	1385.7	1385.7
2.5°	1396.0	1396.0	1392.6	1392.6	1392.6
5°	1389.1	1385.7	1382.2	1382.2	1385.7
7.5°	1382.2	1382.2	1375.3	1375.3	1382.2
10°	1375.3	1371.9	1368.4	1368.4	1371.9
12.5°	1361.5	1358.0	1351.1	1351.1	1354.6
15°	1344.2	1340.8	1333.8	1333.8	1337.3
17.5°	1326.9	1323.5	1316.6	1316.6	1320.0
20°	1302.7	1299.3	1292.4	1288.9	1292.4
22.5°	1278.6	1275.1	1264.7	1261.3	1264.7
25°	1250.9	1247.5	1237.1	1233.6	1237.1
27.5°	1219.8	1216.4	1206.0	1202.5	1206.0
30°	1188.7	1181.8	1171.4	1164.5	1168.0
32.5°	1154.2	1147.2	1133.4	1130.0	1133.4
35°	1116.1	1109.2	1095.4	1092.0	1092.0
37.5°	1074.7	1071.2	1057.4	1053.9	1057.4
40°	1033.2	1026.3	1012.5	1009.0	1012.5
42.5°	988.3	981.4	967.6	967.6	967.6
45°	943.4	936.5	922.6	919.2	919.2
47.5°	895.0	888.1	874.3	870.8	870.8
50°	843.2	836.2	825.9	822.4	822.4
52.5°	794.8	784.4	770.6	767.1	767.1
55°	732.6	725.7	715.3	711.8	711.8
57.5°	680.7	670.4	663.5	656.6	656.6
60°	625.5	615.1	608.2	604.7	604.7
62.5°	573.6	559.8	552.9	549.4	552.9
65°	514.9	504.5	501.1	494.1	497.6
67.5°	459.6	449.2	445.8	445.8	452.7
70°	404.3	393.9	397.4	387.0	407.8
72.5°	349.0	342.1	342.1	331.7	342.1
75°	297.2	286.8	283.4	279.9	283.4
77.5°	241.9	238.4	235.0	228.1	231.5
80°	186.6	193.5	183.1	172.8	176.2
82.5°	138.2	134.8	127.9	124.4	127.9
85°	86.4	86.4	82.9	79.5	82.9
87.5°	41.5	41.5	38.0	38.0	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)