

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: P601307

Luminaire Tested: 14CGSB-40-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601307
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-40-L935
Description: 1x4 CGSB AT 4000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

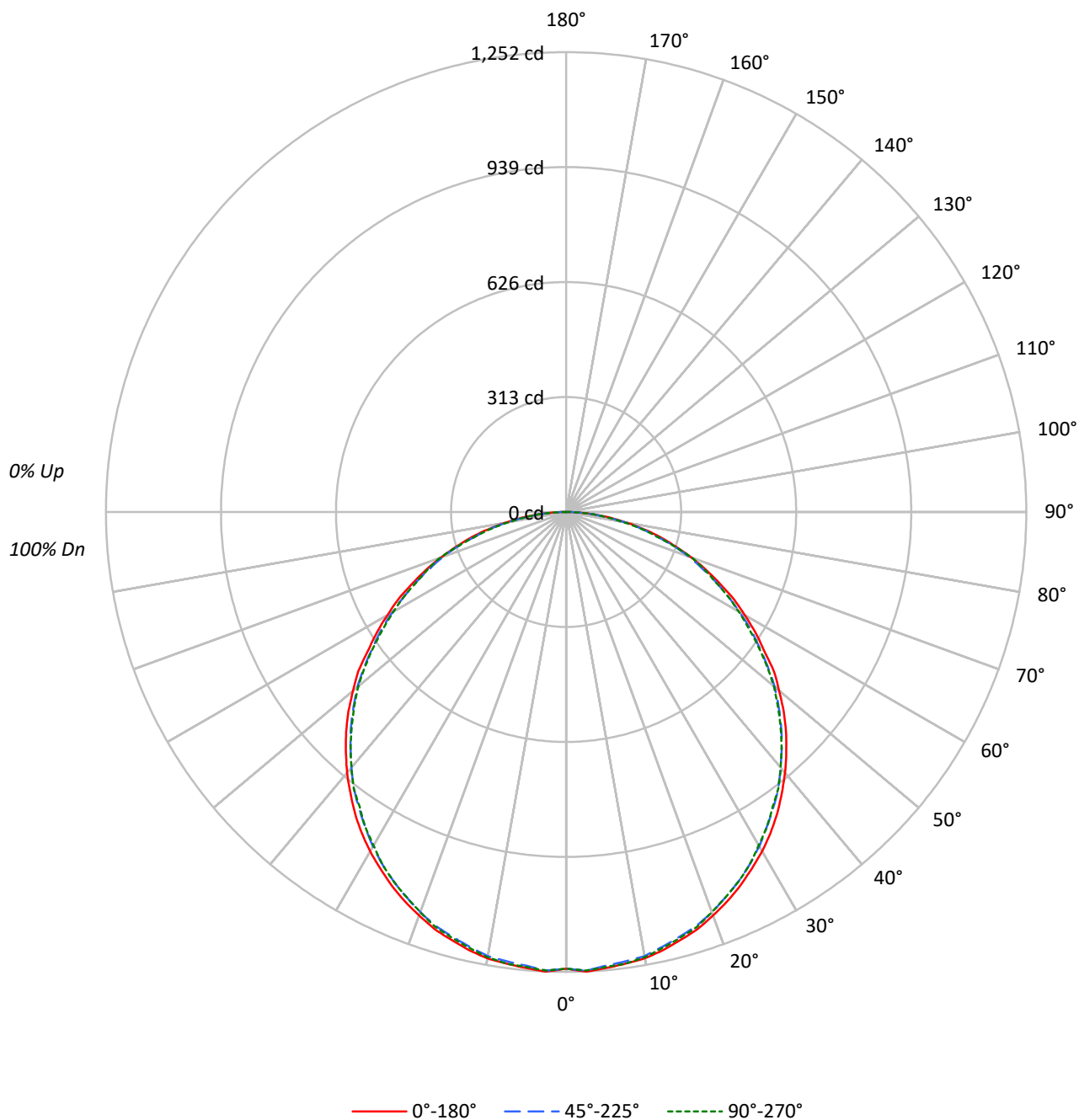
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3609.0 lumens
Efficiency: N/A
Efficacy: 81.7 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): 44.2
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°	3345	3345	3345
5°	3366	3350	3358
10°	3371	3354	3363
15°	3360	3334	3342
20°	3347	3320	3320
25°	3332	3295	3295
30°	3314	3265	3256
35°	3289	3228	3218
40°	3256	3191	3191
45°	3221	3150	3138
50°	3167	3102	3089
55°	3083	3011	2996
60°	3020	2936	2920
65°	2941	2862	2842
70°	2854	2805	2878
75°	2772	2643	2643
80°	2594	2546	2450
85°	2393	2297	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.3
10°-20°	338.8	9.4
20°-30°	512.7	14.2
30°-40°	617.8	17.1
40°-50°	641.5	17.8
50°-60°	577.7	16.0
60°-70°	446.4	12.4
70°-80°	272.0	7.5
80°-90°	84.1	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°	969.7	26.9
0°-40°	1587.5	44.0
0°-60°	2806.6	77.8
0°-90°	3609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1246	1243	1240	1240	1243	119
15°	1206	1203	1197	1197	1200	341
25°	1122	1119	1110	1107	1110	517
35°	1001	995	983	980	980	626
45°	846	840	828	825	825	652
55°	657	651	642	639	639	590
65°	462	453	450	443	446	458
75°	267	257	254	251	254	280
85°	78	78	74	71	74	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1252.4	1252.4	1249.3	1249.3	1249.3
5°	1246.2	1243.1	1240.0	1240.0	1243.1
7.5°	1240.0	1240.0	1233.8	1233.8	1240.0
10°	1233.8	1230.7	1227.6	1227.6	1230.7
12.5°	1221.4	1218.3	1212.1	1212.1	1215.2
15°	1205.9	1202.8	1196.6	1196.6	1199.7
17.5°	1190.4	1187.3	1181.1	1181.1	1184.2
20°	1168.7	1165.6	1159.4	1156.3	1159.4
22.5°	1147.0	1143.9	1134.6	1131.5	1134.6
25°	1122.2	1119.1	1109.8	1106.7	1109.8
27.5°	1094.3	1091.2	1081.9	1078.8	1081.9
30°	1066.4	1060.2	1050.9	1044.7	1047.8
32.5°	1035.4	1029.2	1016.8	1013.7	1016.8
35°	1001.3	995.1	982.7	979.6	979.6
37.5°	964.1	961.0	948.6	945.5	948.6
40°	926.9	920.7	908.3	905.2	908.3
42.5°	886.6	880.4	868.0	868.0	868.0
45°	846.3	840.1	827.7	824.6	824.6
47.5°	802.9	796.7	784.3	781.2	781.2
50°	756.4	750.2	740.9	737.8	737.8
52.5°	713.0	703.7	691.3	688.2	688.2
55°	657.2	651.0	641.7	638.6	638.6
57.5°	610.7	601.4	595.2	589.0	589.0
60°	561.1	551.8	545.6	542.5	542.5
62.5°	514.6	502.2	496.0	492.9	496.0
65°	461.9	452.6	449.5	443.3	446.4
67.5°	412.3	403.0	399.9	399.9	406.1
70°	362.7	353.4	356.5	347.2	365.8
72.5°	313.1	306.9	306.9	297.6	306.9
75°	266.6	257.3	254.2	251.1	254.2
77.5°	217.0	213.9	210.8	204.6	207.7
80°	167.4	173.6	164.3	155.0	158.1
82.5°	124.0	120.9	114.7	111.6	114.7
85°	77.5	77.5	74.4	71.3	74.4
87.5°	37.2	37.2	34.1	34.1	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)