

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: P601308

Luminaire Tested: 14CGSB-40-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601308
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-L940
Description: 1x4 CGSB AT 4000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

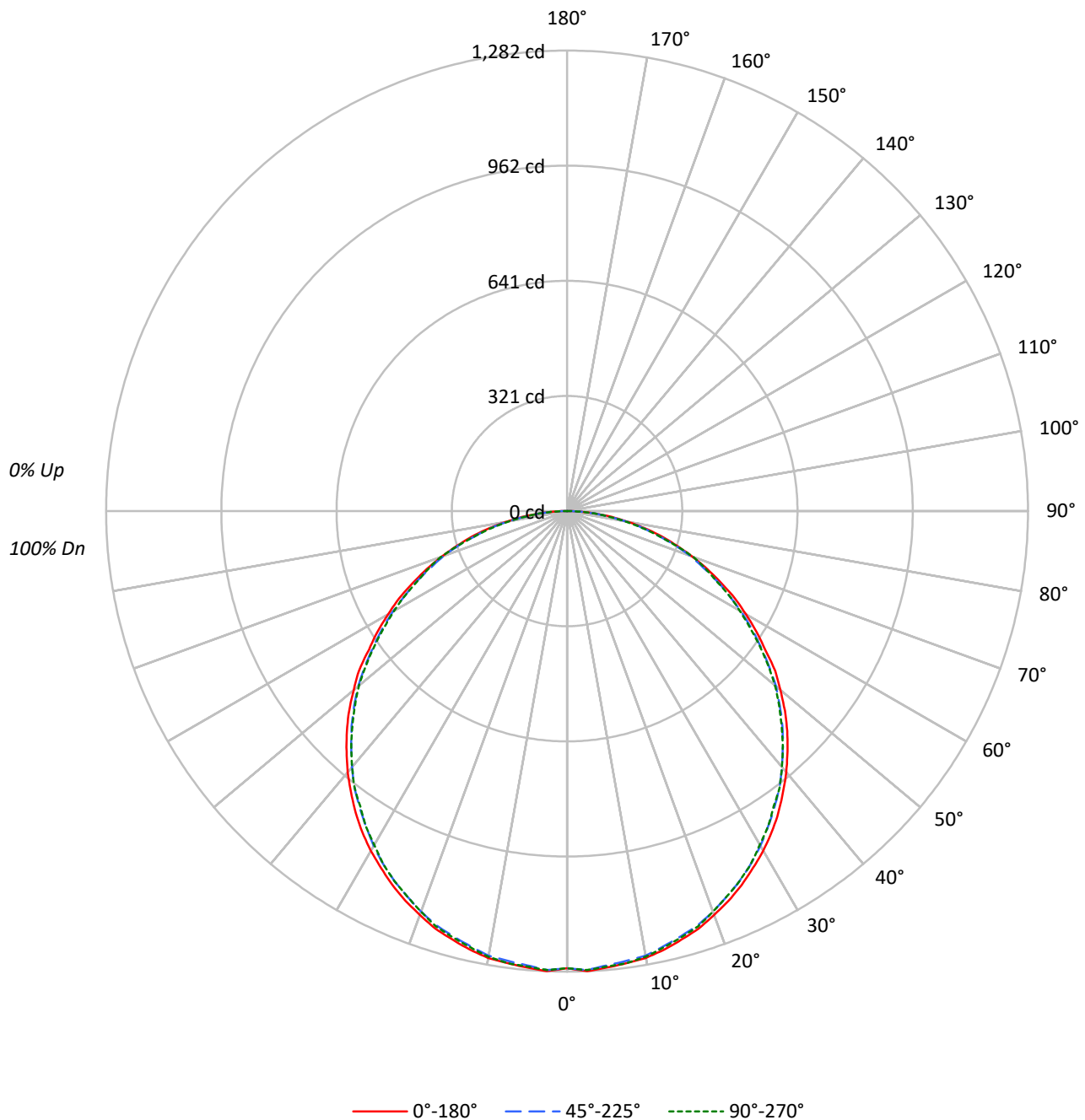
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3693.8 lumens
Efficiency: N/A
Efficacy: 83.6 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°	3424	3424	3424
5°	3445	3428	3437
10°	3451	3433	3442
15°	3438	3412	3421
20°	3426	3398	3398
25°	3410	3373	3373
30°	3392	3342	3332
35°	3367	3304	3294
40°	3333	3266	3266
45°	3296	3224	3212
50°	3241	3175	3161
55°	3156	3081	3066
60°	3091	3005	2988
65°	3011	2930	2909
70°	2921	2871	2946
75°	2837	2705	2705
80°	2655	2607	2507
85°	2448	2350	2350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3296 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.3
10°-20°	346.8	9.4
20°-30°	524.7	14.2
30°-40°	632.3	17.1
40°-50°	656.5	17.8
50°-60°	591.2	16.0
60°-70°	456.9	12.4
70°-80°	278.4	7.5
80°-90°	86.0	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°	992.5	26.9
0°-40°	1624.8	44.0
0°-60°	2872.5	77.8
0°-90°	3693.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3693.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1276	1272	1269	1269	1272	121
15°	1234	1231	1225	1225	1228	349
25°	1149	1145	1136	1133	1136	529
35°	1025	1018	1006	1003	1003	641
45°	866	860	847	844	844	667
55°	673	666	657	654	654	604
65°	473	463	460	454	457	469
75°	273	263	260	257	260	287
85°	79	79	76	73	76	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1281.8	1281.8	1278.6	1278.6	1278.6
5°	1275.5	1272.3	1269.1	1269.1	1272.3
7.5°	1269.1	1269.1	1262.8	1262.8	1269.1
10°	1262.8	1259.6	1256.4	1256.4	1259.6
12.5°	1250.1	1246.9	1240.6	1240.6	1243.7
15°	1234.2	1231.1	1224.7	1224.7	1227.9
17.5°	1218.4	1215.2	1208.8	1208.8	1212.0
20°	1196.2	1193.0	1186.6	1183.5	1186.6
22.5°	1173.9	1170.8	1161.3	1158.1	1161.3
25°	1148.6	1145.4	1135.9	1132.7	1135.9
27.5°	1120.0	1116.8	1107.3	1104.1	1107.3
30°	1091.5	1085.1	1075.6	1069.2	1072.4
32.5°	1059.7	1053.4	1040.7	1037.5	1040.7
35°	1024.8	1018.5	1005.8	1002.6	1002.6
37.5°	986.7	983.6	970.9	967.7	970.9
40°	948.7	942.3	929.6	926.5	929.6
42.5°	907.4	901.1	888.4	888.4	888.4
45°	866.2	859.8	847.1	844.0	844.0
47.5°	821.8	815.4	802.7	799.6	799.6
50°	774.2	767.8	758.3	755.1	755.1
52.5°	729.7	720.2	707.5	704.4	704.4
55°	672.6	666.3	656.8	653.6	653.6
57.5°	625.0	615.5	609.2	602.8	602.8
60°	574.3	564.8	558.4	555.2	555.2
62.5°	526.7	514.0	507.7	504.5	507.7
65°	472.8	463.2	460.1	453.7	456.9
67.5°	422.0	412.5	409.3	409.3	415.6
70°	371.2	361.7	364.9	355.4	374.4
72.5°	320.5	314.1	314.1	304.6	314.1
75°	272.9	263.3	260.2	257.0	260.2
77.5°	222.1	218.9	215.8	209.4	212.6
80°	171.3	177.7	168.2	158.6	161.8
82.5°	126.9	123.7	117.4	114.2	117.4
85°	79.3	79.3	76.1	73.0	76.1
87.5°	38.1	38.1	34.9	34.9	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)