

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: P601309

Luminaire Tested: 14CGSB-40-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601309
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-L950
Description: 1x4 CGSB AT 4000lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

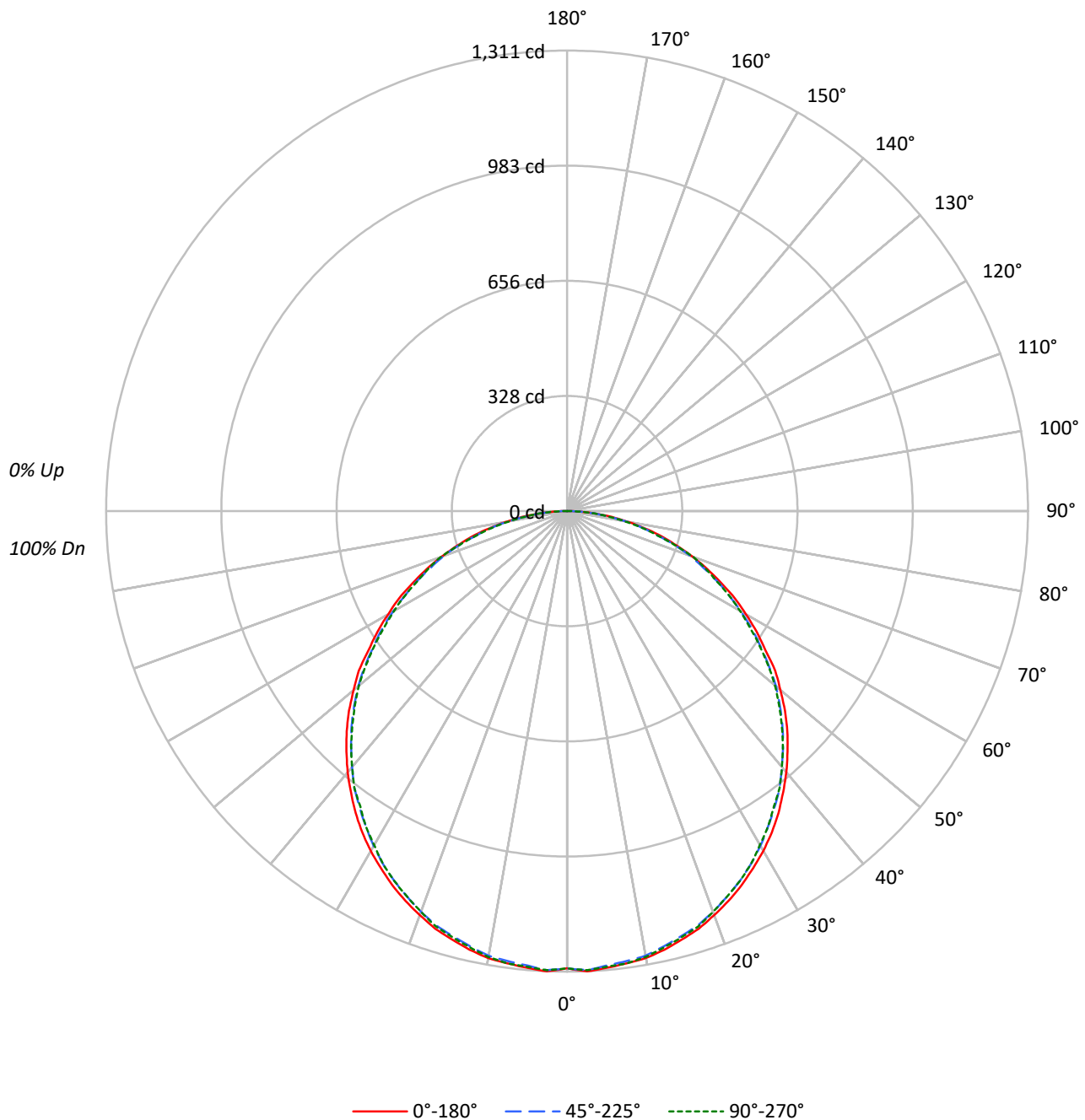
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3778.7 lumens
Efficiency: N/A
Efficacy: 85.5 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°	3503	3503	3503
5°	3525	3507	3516
10°	3530	3512	3521
15°	3517	3490	3499
20°	3504	3476	3476
25°	3489	3450	3450
30°	3469	3419	3409
35°	3444	3380	3370
40°	3409	3341	3341
45°	3372	3298	3286
50°	3316	3247	3234
55°	3228	3152	3137
60°	3162	3075	3057
65°	3079	2996	2976
70°	2988	2937	3013
75°	2902	2768	2768
80°	2717	2665	2565
85°	2504	2405	2405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3372 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.3
10°-20°	354.8	9.4
20°-30°	536.8	14.2
30°-40°	646.8	17.1
40°-50°	671.6	17.8
50°-60°	604.8	16.0
60°-70°	467.3	12.4
70°-80°	284.8	7.5
80°-90°	88.0	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°	1015.3	26.9
0°-40°	1662.1	44.0
0°-60°	2938.6	77.8
0°-90°	3778.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3778.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1305	1302	1298	1298	1302	124
15°	1263	1259	1253	1253	1256	357
25°	1175	1172	1162	1159	1162	541
35°	1048	1042	1029	1026	1026	656
45°	886	880	867	863	863	683
55°	688	682	672	669	669	618
65°	484	474	471	464	467	480
75°	279	269	266	263	266	293
85°	81	81	78	75	78	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.6	1301.6	1301.6	1301.6	1301.6
2.5°	1311.3	1311.3	1308.0	1308.0	1308.0
5°	1304.8	1301.6	1298.3	1298.3	1301.6
7.5°	1298.3	1298.3	1291.8	1291.8	1298.3
10°	1291.8	1288.6	1285.3	1285.3	1288.6
12.5°	1278.8	1275.6	1269.1	1269.1	1272.3
15°	1262.6	1259.4	1252.9	1252.9	1256.1
17.5°	1246.4	1243.1	1236.6	1236.6	1239.9
20°	1223.7	1220.4	1213.9	1210.7	1213.9
22.5°	1200.9	1197.7	1187.9	1184.7	1187.9
25°	1175.0	1171.7	1162.0	1158.7	1162.0
27.5°	1145.8	1142.5	1132.8	1129.5	1132.8
30°	1116.5	1110.1	1100.3	1093.8	1097.1
32.5°	1084.1	1077.6	1064.6	1061.4	1064.6
35°	1048.4	1041.9	1028.9	1025.7	1025.7
37.5°	1009.4	1006.2	993.2	990.0	993.2
40°	970.5	964.0	951.0	947.8	951.0
42.5°	928.3	921.8	908.8	908.8	908.8
45°	886.1	879.6	866.6	863.4	863.4
47.5°	840.7	834.2	821.2	817.9	817.9
50°	792.0	785.5	775.7	772.5	772.5
52.5°	746.5	736.8	723.8	720.6	720.6
55°	688.1	681.6	671.9	668.6	668.6
57.5°	639.4	629.7	623.2	616.7	616.7
60°	587.5	577.7	571.3	568.0	568.0
62.5°	538.8	525.8	519.3	516.1	519.3
65°	483.6	473.9	470.6	464.1	467.4
67.5°	431.7	421.9	418.7	418.7	425.2
70°	379.8	370.0	373.3	363.5	383.0
72.5°	327.8	321.3	321.3	311.6	321.3
75°	279.1	269.4	266.2	262.9	266.2
77.5°	227.2	224.0	220.7	214.2	217.5
80°	175.3	181.8	172.0	162.3	165.5
82.5°	129.8	126.6	120.1	116.8	120.1
85°	81.1	81.1	77.9	74.7	77.9
87.5°	38.9	38.9	35.7	35.7	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)