

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: P601302

Luminaire Tested: 14CGSB-40-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601302
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-L830
Description: 1x4 CGSB AT 4000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

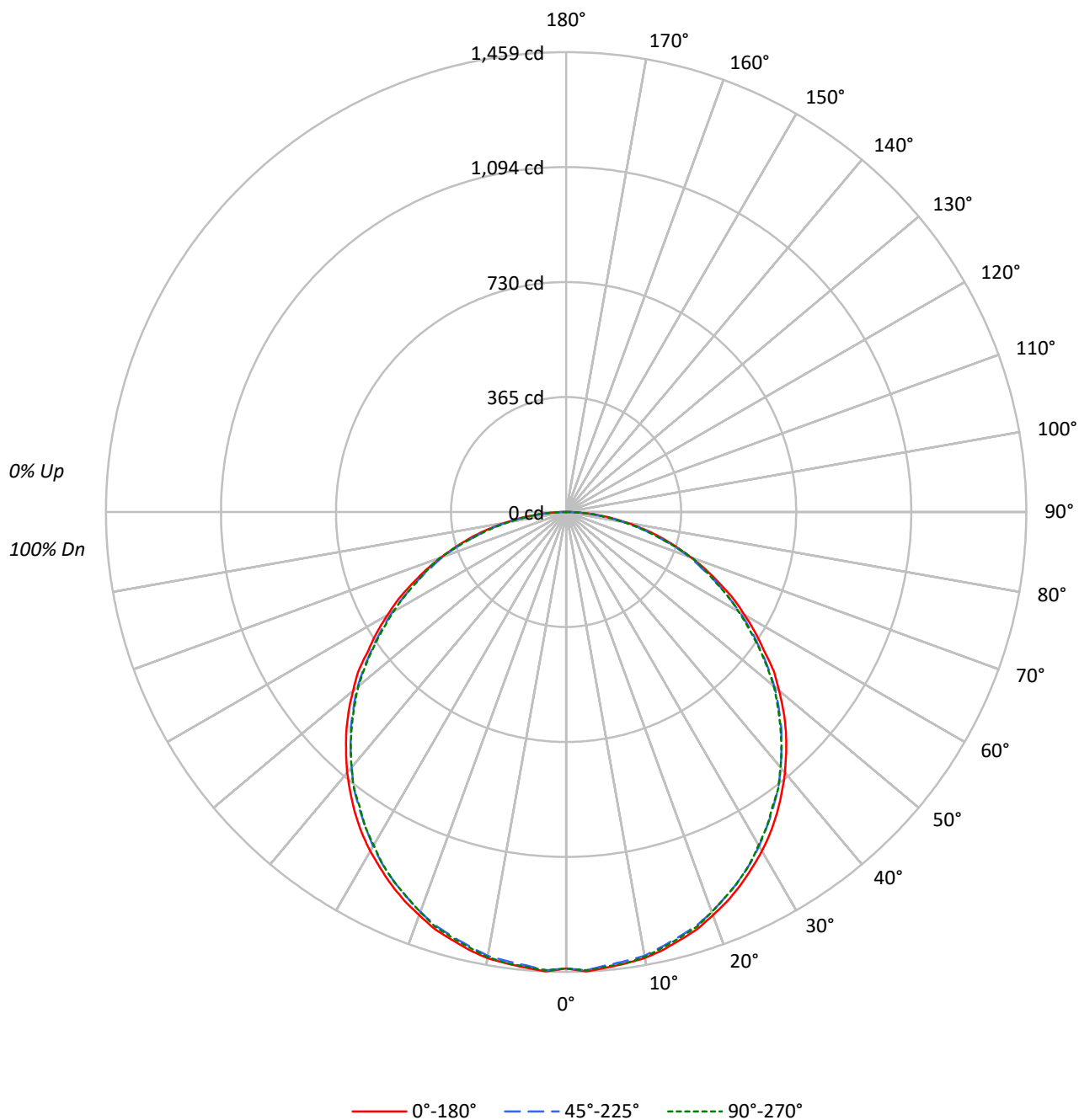
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4203.3 lumens
Efficiency: N/A
Efficacy: 95.1 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): 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°	3896	3896	3896
5°	3921	3901	3911
10°	3927	3907	3917
15°	3913	3882	3892
20°	3898	3867	3867
25°	3881	3838	3838
30°	3859	3803	3792
35°	3831	3760	3748
40°	3792	3716	3716
45°	3751	3669	3655
50°	3688	3612	3597
55°	3591	3506	3490
60°	3517	3420	3400
65°	3426	3333	3310
70°	3323	3267	3352
75°	3228	3079	3079
80°	3022	2966	2853
85°	2788	2677	2677

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3751 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	3.3
10°-20°	394.6	9.4
20°-30°	597.1	14.2
30°-40°	719.5	17.1
40°-50°	747.1	17.8
50°-60°	672.8	16.0
60°-70°	519.9	12.4
70°-80°	316.8	7.5
80°-90°	97.9	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°	1129.4	26.9
0°-40°	1848.9	44.0
0°-60°	3268.7	77.8
0°-90°	4203.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4203.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1451	1448	1444	1444	1448	138
15°	1404	1401	1394	1394	1397	397
25°	1307	1303	1292	1289	1292	602
35°	1166	1159	1144	1141	1141	729
45°	986	978	964	960	960	760
55°	765	758	747	744	744	688
65°	538	527	524	516	520	533
75°	310	300	296	292	296	326
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°	1447.8	1447.8	1447.8	1447.8	1447.8
2.5°	1458.6	1458.6	1455.0	1455.0	1455.0
5°	1451.4	1447.8	1444.2	1444.2	1447.8
7.5°	1444.2	1444.2	1437.0	1437.0	1444.2
10°	1437.0	1433.4	1429.7	1429.7	1433.4
12.5°	1422.5	1418.9	1411.7	1411.7	1415.3
15°	1404.5	1400.9	1393.6	1393.6	1397.2
17.5°	1386.4	1382.8	1375.6	1375.6	1379.2
20°	1361.1	1357.5	1350.3	1346.7	1350.3
22.5°	1335.9	1332.3	1321.4	1317.8	1321.4
25°	1307.0	1303.4	1292.5	1288.9	1292.5
27.5°	1274.5	1270.9	1260.0	1256.4	1260.0
30°	1242.0	1234.8	1223.9	1216.7	1220.3
32.5°	1205.9	1198.7	1184.2	1180.6	1184.2
35°	1166.2	1159.0	1144.5	1140.9	1140.9
37.5°	1122.9	1119.2	1104.8	1101.2	1104.8
40°	1079.5	1072.3	1057.9	1054.3	1057.9
42.5°	1032.6	1025.4	1010.9	1010.9	1010.9
45°	985.7	978.4	964.0	960.4	960.4
47.5°	935.1	927.9	913.4	909.8	909.8
50°	881.0	873.7	862.9	859.3	859.3
52.5°	830.4	819.6	805.1	801.5	801.5
55°	765.4	758.2	747.4	743.8	743.8
57.5°	711.3	700.4	693.2	686.0	686.0
60°	653.5	642.7	635.4	631.8	631.8
62.5°	599.3	584.9	577.7	574.1	577.7
65°	538.0	527.1	523.5	516.3	519.9
67.5°	480.2	469.4	465.7	465.7	473.0
70°	422.4	411.6	415.2	404.4	426.0
72.5°	364.7	357.4	357.4	346.6	357.4
75°	310.5	299.7	296.1	292.4	296.1
77.5°	252.7	249.1	245.5	238.3	241.9
80°	195.0	202.2	191.4	180.5	184.1
82.5°	144.4	140.8	133.6	130.0	133.6
85°	90.3	90.3	86.7	83.0	86.7
87.5°	43.3	43.3	39.7	39.7	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)