

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: P601275

Luminaire Tested: 14CGSB-20-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601275
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-20-L935
Description: 1x4 CGSB AT 2000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

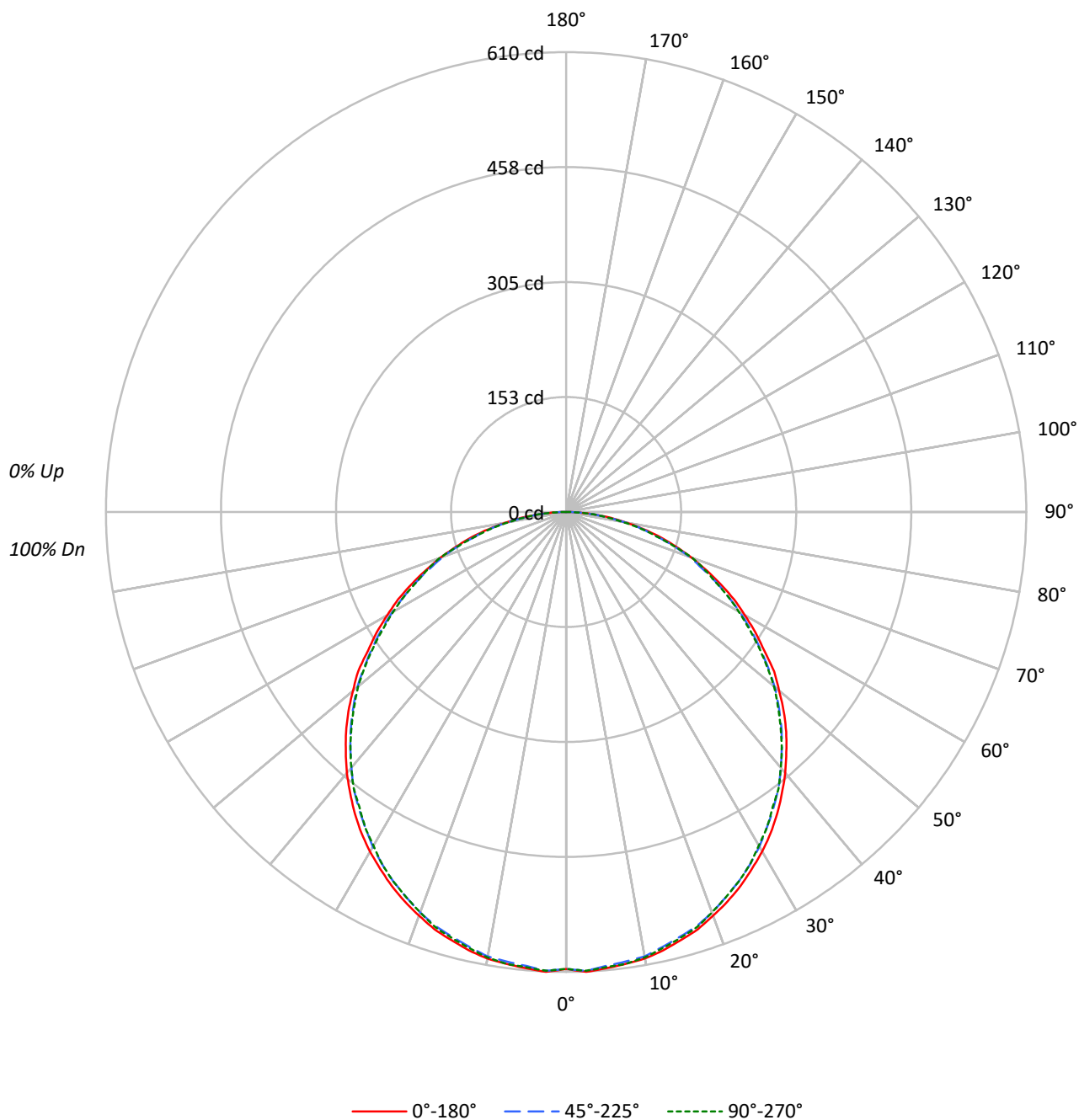
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1759.4 lumens
Efficiency: N/A
Efficacy: 78.2 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): 22.5
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

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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	33	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1631	1631	1631
5°	1641	1633	1637
10°	1644	1635	1639
15°	1638	1625	1629
20°	1631	1619	1619
25°	1624	1606	1606
30°	1615	1592	1587
35°	1603	1574	1569
40°	1587	1555	1555
45°	1570	1536	1530
50°	1544	1512	1506
55°	1503	1468	1460
60°	1472	1432	1424
65°	1434	1395	1386
70°	1391	1367	1403
75°	1352	1288	1288
80°	1265	1241	1195
85°	1167	1121	1121

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1570 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.3
10°-20°	165.2	9.4
20°-30°	249.9	14.2
30°-40°	301.2	17.1
40°-50°	312.7	17.8
50°-60°	281.6	16.0
60°-70°	217.6	12.4
70°-80°	132.6	7.5
80°-90°	41.0	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°	472.7	26.9
0°-40°	773.9	44.0
0°-60°	1368.2	77.8
0°-90°	1759.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1759.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	608	606	604	604	606	58
15°	588	586	583	583	585	166
25°	547	546	541	540	541	252
35°	488	485	479	478	478	305
45°	413	410	404	402	402	318
55°	320	317	313	311	311	288
65°	225	221	219	216	218	223
75°	130	125	124	122	124	137
85°	38	38	36	35	36	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	606.0	606.0	606.0	606.0	606.0
2.5°	610.5	610.5	609.0	609.0	609.0
5°	607.5	606.0	604.5	604.5	606.0
7.5°	604.5	604.5	601.5	601.5	604.5
10°	601.5	600.0	598.5	598.5	600.0
12.5°	595.4	593.9	590.9	590.9	592.4
15°	587.9	586.4	583.3	583.3	584.9
17.5°	580.3	578.8	575.8	575.8	577.3
20°	569.7	568.2	565.2	563.7	565.2
22.5°	559.2	557.7	553.1	551.6	553.1
25°	547.1	545.6	541.0	539.5	541.0
27.5°	533.5	532.0	527.4	525.9	527.4
30°	519.9	516.8	512.3	509.3	510.8
32.5°	504.8	501.7	495.7	494.2	495.7
35°	488.1	485.1	479.1	477.6	477.6
37.5°	470.0	468.5	462.4	460.9	462.4
40°	451.9	448.8	442.8	441.3	442.8
42.5°	432.2	429.2	423.2	423.2	423.2
45°	412.6	409.6	403.5	402.0	402.0
47.5°	391.4	388.4	382.3	380.8	380.8
50°	368.7	365.7	361.2	359.7	359.7
52.5°	347.6	343.1	337.0	335.5	335.5
55°	320.4	317.4	312.8	311.3	311.3
57.5°	297.7	293.2	290.2	287.1	287.1
60°	273.5	269.0	266.0	264.5	264.5
62.5°	250.9	244.8	241.8	240.3	241.8
65°	225.2	220.6	219.1	216.1	217.6
67.5°	201.0	196.5	195.0	195.0	198.0
70°	176.8	172.3	173.8	169.3	178.3
72.5°	152.6	149.6	149.6	145.1	149.6
75°	130.0	125.4	123.9	122.4	123.9
77.5°	105.8	104.3	102.8	99.7	101.3
80°	81.6	84.6	80.1	75.6	77.1
82.5°	60.5	58.9	55.9	54.4	55.9
85°	37.8	37.8	36.3	34.8	36.3
87.5°	18.1	18.1	16.6	16.6	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)