

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P566245

Luminaire Tested: **4SNX-31SL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-31SL-LC-UNV-L950-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

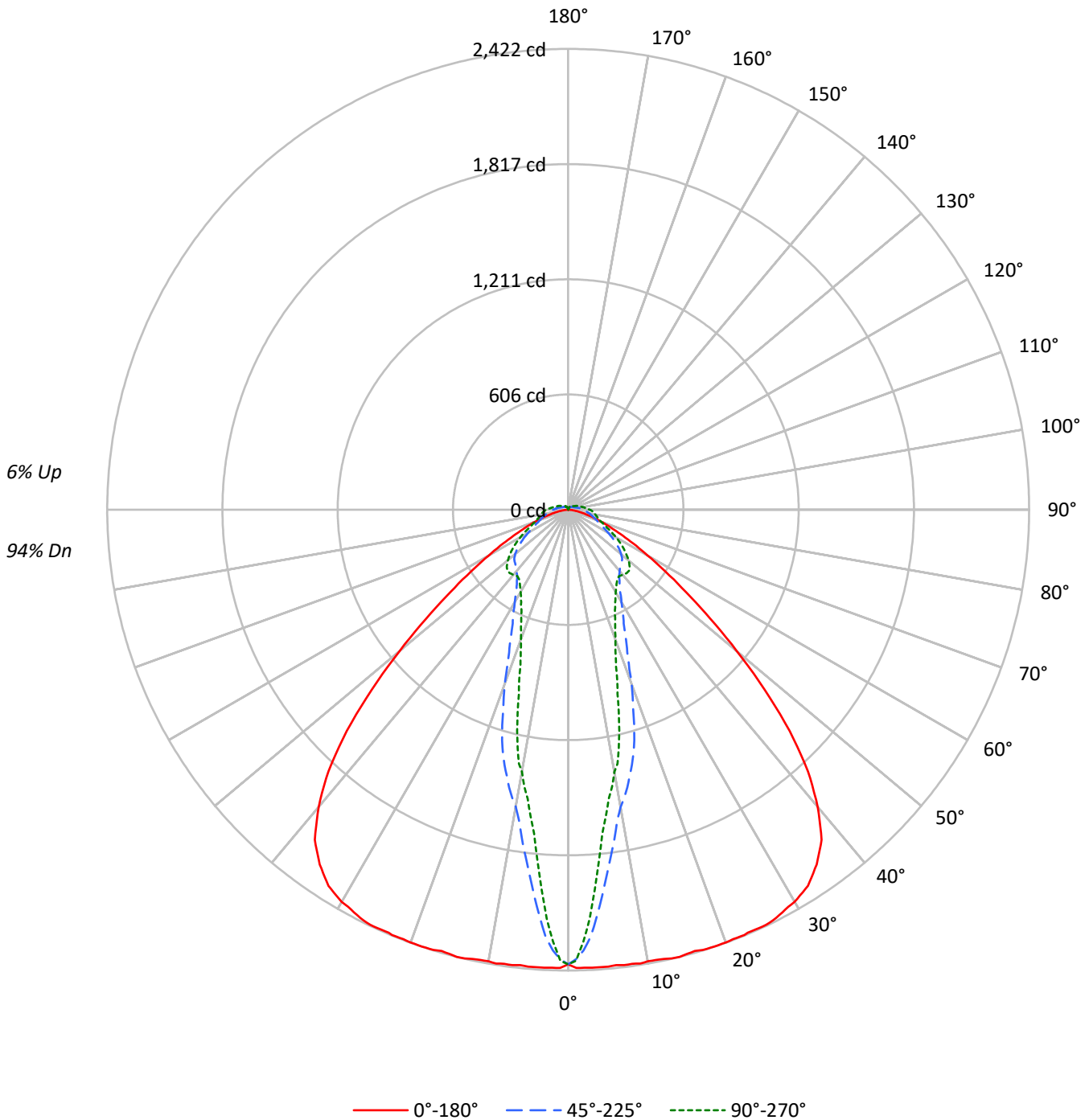
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2945.0 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 19.5
Input Voltage (V): NR
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: 25 FT

TEST NUMBER: P566245
CATALOG NUMBER: 4SNX-31SL-LC-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566245

CATALOG NUMBER: 4SNX-31SL-LC-UNV-L950-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25716	25716	25716
5°	25949	21122	18906
10°	26152	15945	13684
15°	26629	13034	9475
20°	27315	9432	6691
25°	28168	6757	5265
30°	28888	5398	4484
35°	29058	4567	4015
40°	27703	4151	4025
45°	24041	4010	4136
50°	18444	3814	3859
55°	13366	3336	3424
60°	9698	2784	2895
65°	7056	2354	2373
70°	5199	2079	2046
75°	3693	1925	1908
80°	2422	1803	1879
85°	1138	1719	1881



TEST NUMBER: P566245

CATALOG NUMBER: 4SNX-31SL-LC-UNV-L950-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	6.4
10°-20°	408.0	13.9
20°-30°	467.0	15.9
30°-40°	467.9	15.9
40°-50°	442.9	15.0
50°-60°	339.7	11.5
60°-70°	218.9	7.4
70°-80°	139.6	4.7
80°-90°	92.7	3.1
90°-100°	62.3	2.1
100°-110°	41.1	1.4
110°-120°	28.6	1.0
120°-130°	19.9	0.7
130°-140°	13.8	0.5
140°-150°	8.5	0.3
150°-160°	4.3	0.1
160°-170°	1.6	0.1
170°-180°	0.3	0.0
0°-30°	1062.9	36.1
0°-40°	1530.8	52.0
0°-60°	2313.3	78.6
0°-90°	2764.6	93.9
90°-120°	131.9	4.5
90°-150°	174.2	5.9
90°-180°	180.0	6.1
0°-180°	2945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2389	2389	2389	2389	2389	
5°	2410	2277	2040	1903	1852	230
15°	2416	1740	1327	1090	1002	685
25°	2418	1232	702	610	581	1115
35°	2276	685	469	454	448	1412
45°	1645	433	395	438	453	1251
55°	755	309	305	343	356	694
65°	302	195	192	219	226	310
75°	103	106	133	152	160	113
85°	14	48	94	122	131	19
90°	0	33	78	109	113	1
95°	0	24	65	89	94	0
105°	0	18	42	60	65	1
115°	2	15	32	44	47	1
125°	2	14	27	32	33	1
135°	2	11	21	26	27	1
145°	2	8	15	20	21	1
155°	2	4	9	14	15	1
165°	3	3	6	8	9	1
175°	3	3	3	3	2	0
180°	3	3	3	3	3	



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CATALOG NUMBER: 4SNX-31SL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2389.1	2389.1	2389.1	2389.1	2389.1
1°	2408.7	2395.2	2363.5	2372.5	2371.0
2°	2408.7	2380.1	2318.2	2300.1	2272.9
3°	2410.3	2354.4	2248.8	2189.9	2152.2
4°	2410.3	2316.7	2146.1	2048.0	1999.7
5°	2410.3	2277.4	2040.5	1903.2	1851.8
6°	2407.2	2230.7	1933.3	1788.4	1711.5
7°	2411.8	2179.3	1836.7	1681.3	1620.9
8°	2410.3	2119.0	1747.7	1599.8	1533.4
9°	2414.8	2060.1	1651.1	1522.8	1473.0
10°	2410.3	2005.8	1587.7	1450.4	1399.1
11°	2410.3	1953.0	1542.4	1403.6	1359.8
12°	2413.3	1892.6	1492.6	1337.2	1276.8
13°	2420.8	1830.7	1435.3	1264.7	1193.8
14°	2422.3	1783.9	1382.5	1172.7	1098.7
15°	2416.3	1740.2	1326.6	1089.7	1002.1
16°	2413.3	1694.9	1260.2	1011.2	932.7
17°	2419.3	1642.1	1184.8	931.2	858.8
18°	2420.8	1593.8	1104.8	870.8	807.4
19°	2420.8	1556.0	1039.9	815.0	760.7
20°	2420.8	1519.8	973.5	772.7	725.9
21°	2417.8	1474.5	898.0	729.0	689.7
22.5°	2419.3	1390.0	812.0	677.6	646.0
23°	2414.8	1368.9	790.8	664.1	630.9
24°	2416.3	1308.5	745.6	636.9	605.2
25°	2417.8	1231.5	701.8	609.7	581.1
26°	2414.8	1169.7	665.6	584.1	564.5
27°	2407.2	1119.9	639.9	562.9	544.8
28°	2396.7	1053.4	612.8	544.8	528.2
29°	2386.1	978.0	585.6	525.2	513.1
30°	2380.1	917.6	559.9	510.1	499.6
32.5°	2343.8	798.4	507.1	479.9	470.9
35°	2275.9	685.2	469.4	454.3	448.2
37.5°	2186.9	597.7	440.7	437.7	439.2
40°	2040.5	528.2	419.6	433.2	446.7
42.5°	1865.4	473.9	404.5	437.7	452.8
45°	1645.1	433.2	395.4	437.7	452.8
47.5°	1400.6	399.9	384.9	422.6	437.7
50°	1156.1	369.8	363.7	399.9	413.5
52.5°	940.3	341.1	336.6	371.3	384.9
55°	754.6	309.4	304.9	342.6	356.2
57.5°	605.2	279.2	274.7	309.4	323.0
60°	483.0	249.0	241.5	276.2	289.8
62.5°	384.9	220.3	215.8	246.0	258.1
65°	301.8	194.7	191.7	218.8	226.4



TEST NUMBER: P566245

CATALOG NUMBER: 4SNX-31SL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	238.5	170.5	172.1	194.7	203.7
70°	184.1	147.9	157.0	178.1	184.1
72.5°	138.9	125.3	144.9	163.0	170.5
75°	102.6	105.6	132.8	152.4	160.0
77.5°	70.9	87.5	122.2	143.4	150.9
80°	48.3	70.9	111.7	135.8	144.9
82.5°	28.7	58.9	102.6	128.3	138.9
85°	13.6	48.3	93.6	122.2	131.3
87.5°	4.5	39.2	84.5	116.2	123.8
90°	0.0	33.2	78.5	108.7	113.2
92.5°	0.0	28.7	70.9	99.6	102.6
95°	0.0	24.1	64.9	89.0	93.6
97.5°	0.0	22.6	60.4	80.0	86.0
100°	0.0	21.1	54.3	72.4	78.5
102.5°	0.0	18.1	48.3	64.9	70.9
105°	0.0	18.1	42.3	60.4	64.9
107.5°	1.5	16.6	39.2	54.3	60.4
110°	1.5	16.6	34.7	51.3	55.8
112.5°	1.5	16.6	33.2	46.8	52.8
115°	1.5	15.1	31.7	43.8	46.8
117.5°	1.5	15.1	30.2	39.2	42.3
120°	1.5	13.6	28.7	36.2	37.7
122.5°	1.5	13.6	27.2	33.2	34.7
125°	1.5	13.6	27.2	31.7	33.2
127.5°	1.5	12.1	25.7	30.2	30.2
130°	1.5	12.1	24.1	28.7	28.7
132.5°	1.5	10.6	22.6	27.2	28.7
135°	1.5	10.6	21.1	25.7	27.2
137.5°	1.5	9.1	19.6	24.1	25.7
140°	1.5	9.1	18.1	22.6	24.1
142.5°	1.5	7.5	16.6	21.1	22.6
145°	1.5	7.5	15.1	19.6	21.1
147.5°	1.5	7.5	13.6	18.1	19.6
150°	1.5	6.0	12.1	16.6	18.1
152.5°	1.5	6.0	10.6	15.1	16.6
155°	1.5	4.5	9.1	13.6	15.1
157.5°	1.5	4.5	9.1	12.1	13.6
160°	3.0	4.5	7.5	10.6	12.1
162.5°	1.5	3.0	7.5	9.1	10.6
165°	3.0	3.0	6.0	7.5	9.1
167.5°	3.0	3.0	4.5	6.0	7.5
170°	3.0	3.0	4.5	4.5	6.0
172.5°	3.0	3.0	3.0	4.5	3.0
175°	3.0	3.0	3.0	3.0	1.5
177.5°	3.0	3.0	3.0	3.0	1.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)