

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: P566250

Luminaire Tested: **4SNX-31SL-LN-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-31SL-LN-UNV-L930-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

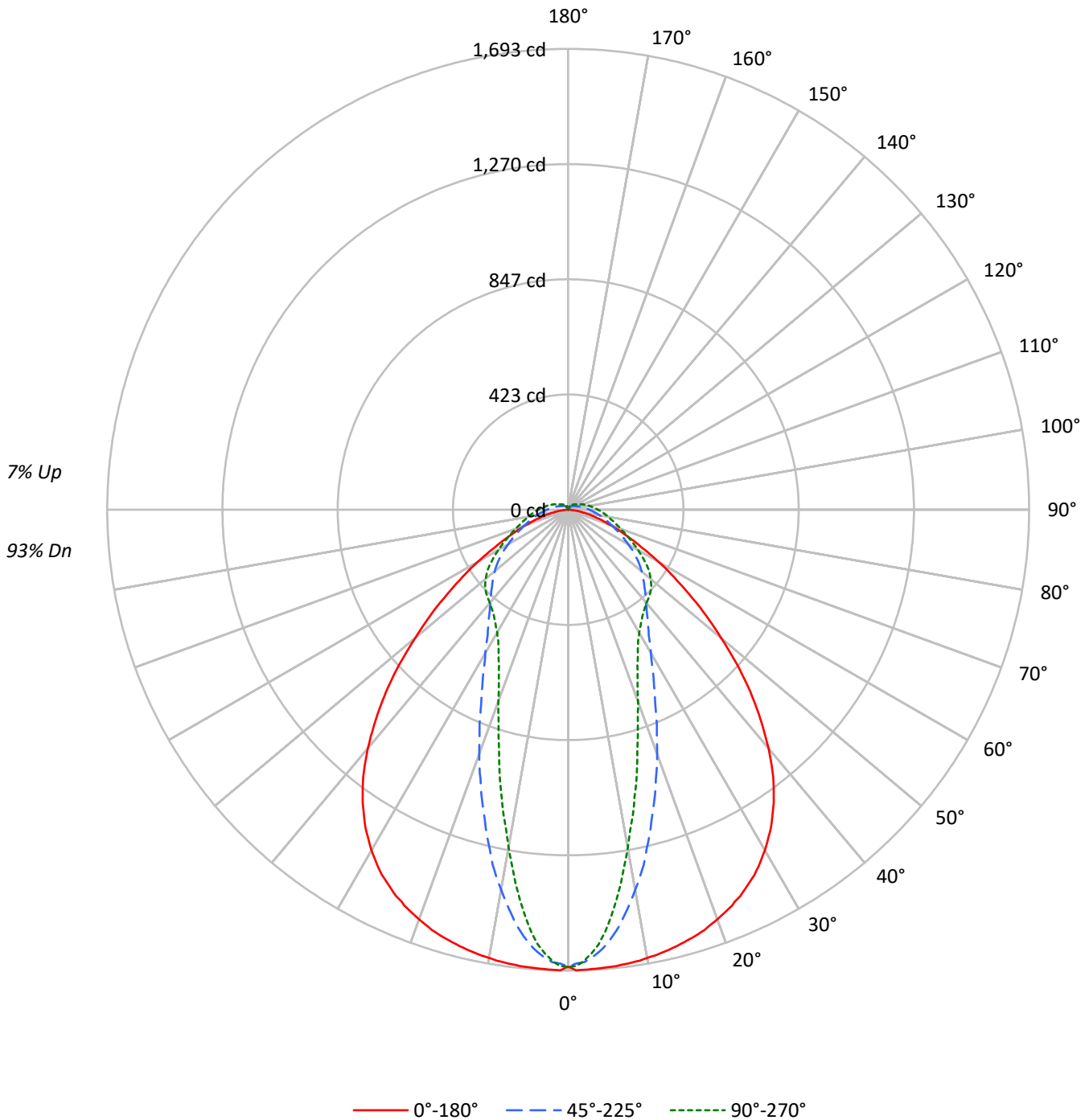
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2675.9 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78  
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

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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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18069	18069	18069
5°	18163	16608	15893
10°	18138	14240	12331
15°	18130	11616	9242
20°	18072	9253	6916
25°	17908	7251	5490
30°	17532	5869	4682
35°	16796	4966	4259
40°	15537	4385	4031
45°	13814	4011	3906
50°	11702	3691	3691
55°	9612	3344	3370
60°	7688	2942	2956
65°	5967	2584	2572
70°	4634	2285	2276
75°	3585	2052	2073
80°	2532	1879	1928
85°	1405	1752	1848



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	5.6
10°-20°	348.5	13.0
20°-30°	413.6	15.5
30°-40°	416.2	15.6
40°-50°	386.8	14.5
50°-60°	318.5	11.9
60°-70°	224.5	8.4
70°-80°	146.6	5.5
80°-90°	93.6	3.5
90°-100°	61.4	2.3
100°-110°	41.7	1.6
110°-120°	28.6	1.1
120°-130°	19.8	0.7
130°-140°	13.3	0.5
140°-150°	8.2	0.3
150°-160°	4.2	0.2
160°-170°	1.5	0.1
170°-180°	0.3	0.0
0°-30°	910.8	34.0
0°-40°	1326.9	49.6
0°-60°	2032.3	75.9
0°-90°	2497.0	93.3
90°-120°	131.6	4.9
90°-150°	172.9	6.5
90°-180°	179.0	6.7
0°-180°	2675.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1687	1665	1604	1574	1557	161
15°	1645	1470	1182	1034	978	465
25°	1537	1136	753	632	606	707
35°	1316	768	510	478	475	818
45°	945	506	396	416	428	726
55°	543	332	306	339	351	490
65°	255	201	210	237	245	259
75°	100	104	142	167	174	108
85°	17	48	95	123	129	21
90°	0	32	77	105	109	1
95°	0	24	64	88	93	0
105°	0	17	44	62	67	0
115°	1	14	31	45	48	1
125°	1	11	25	32	35	1
135°	1	10	20	25	27	1
145°	1	7	14	20	21	1
155°	1	6	10	14	15	1
165°	1	3	6	7	8	0
175°	3	3	3	3	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1678.7	1678.7	1678.7	1678.7	1678.7
1°	1692.8	1685.7	1667.5	1680.1	1677.3
2°	1691.4	1684.3	1663.3	1668.9	1659.1
3°	1690.0	1680.1	1647.9	1646.5	1632.5
4°	1688.6	1673.1	1628.2	1611.4	1600.2
5°	1687.1	1664.7	1604.4	1573.6	1556.7
6°	1685.7	1654.9	1573.6	1527.3	1503.4
7°	1682.9	1639.5	1541.3	1478.2	1447.3
8°	1680.1	1625.4	1500.6	1424.9	1387.0
9°	1677.3	1607.2	1460.0	1367.4	1322.5
10°	1671.7	1589.0	1417.9	1308.5	1260.8
11°	1668.9	1567.9	1377.2	1252.4	1196.3
12°	1663.3	1545.5	1333.7	1193.5	1144.4
13°	1657.7	1521.7	1280.4	1143.0	1084.1
14°	1652.1	1496.4	1234.2	1086.9	1032.2
15°	1645.1	1469.8	1182.3	1033.6	977.5
16°	1638.1	1438.9	1136.0	978.9	920.0
17°	1631.1	1409.5	1092.5	928.4	875.1
18°	1622.6	1380.0	1042.0	879.3	827.4
19°	1611.4	1346.4	1001.4	834.5	786.8
20°	1601.6	1315.5	955.1	792.4	750.3
21°	1590.4	1277.6	908.8	753.1	711.0
22.5°	1573.6	1224.3	849.9	704.0	664.8
23°	1565.1	1208.9	826.0	685.8	652.1
24°	1553.9	1168.2	786.8	657.7	624.1
25°	1537.1	1136.0	753.1	632.5	605.9
26°	1521.7	1096.7	719.5	610.1	583.4
27°	1506.2	1058.9	690.0	586.2	563.8
28°	1486.6	1019.6	657.7	566.6	547.0
29°	1465.6	983.1	631.1	549.8	534.3
30°	1444.5	942.4	608.7	534.3	521.7
32.5°	1385.6	852.7	551.2	504.9	496.5
35°	1315.5	768.5	510.5	478.2	475.4
37.5°	1237.0	691.4	474.0	457.2	460.0
40°	1144.4	621.3	443.2	441.8	447.4
42.5°	1046.2	561.0	419.3	429.2	437.6
45°	945.3	506.3	395.5	416.5	427.7
47.5°	840.1	458.6	374.5	401.1	413.7
50°	733.5	412.3	352.0	382.9	395.5
52.5°	638.1	371.6	329.6	361.8	375.9
55°	542.7	332.4	305.7	339.4	350.6
57.5°	460.0	295.9	280.5	314.1	322.6
60°	382.9	260.9	255.2	286.1	295.9
62.5°	312.7	230.0	231.4	260.9	270.7
65°	255.2	200.6	210.4	237.0	245.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	207.6	172.5	189.3	217.4	224.4
70°	164.1	147.3	172.5	197.7	204.8
72.5°	130.4	124.8	155.7	182.3	187.9
75°	99.6	103.8	141.6	166.9	173.9
77.5°	71.5	87.0	127.6	154.3	159.9
80°	50.5	71.5	116.4	143.1	148.7
82.5°	32.3	58.9	105.2	133.2	138.8
85°	16.8	47.7	95.4	123.4	129.0
87.5°	7.0	39.3	85.5	113.6	119.2
90°	0.0	32.3	77.1	105.2	109.4
92.5°	0.0	28.0	70.1	96.8	101.0
95°	0.0	23.8	64.5	88.4	92.6
97.5°	0.0	22.4	57.5	81.3	85.5
100°	0.0	19.6	51.9	74.3	79.9
102.5°	0.0	18.2	47.7	67.3	72.9
105°	0.0	16.8	43.5	61.7	67.3
107.5°	0.0	15.4	40.7	57.5	61.7
110°	0.0	15.4	36.5	53.3	57.5
112.5°	1.4	14.0	33.7	47.7	51.9
115°	1.4	14.0	30.9	44.9	47.7
117.5°	1.4	14.0	29.5	40.7	43.5
120°	1.4	12.6	28.0	37.9	40.7
122.5°	1.4	12.6	26.6	35.1	36.5
125°	1.4	11.2	25.2	32.3	35.1
127.5°	1.4	11.2	23.8	30.9	32.3
130°	1.4	11.2	22.4	28.0	30.9
132.5°	1.4	9.8	21.0	26.6	28.0
135°	1.4	9.8	19.6	25.2	26.6
137.5°	1.4	8.4	18.2	23.8	25.2
140°	1.4	8.4	16.8	22.4	23.8
142.5°	1.4	7.0	15.4	21.0	22.4
145°	1.4	7.0	14.0	19.6	21.0
147.5°	1.4	7.0	12.6	18.2	19.6
150°	1.4	5.6	11.2	16.8	18.2
152.5°	1.4	5.6	9.8	15.4	16.8
155°	1.4	5.6	9.8	14.0	15.4
157.5°	1.4	4.2	8.4	11.2	14.0
160°	1.4	4.2	7.0	9.8	12.6
162.5°	1.4	4.2	7.0	8.4	9.8
165°	1.4	2.8	5.6	7.0	8.4
167.5°	1.4	2.8	4.2	5.6	7.0
170°	1.4	2.8	4.2	4.2	5.6
172.5°	1.4	2.8	2.8	2.8	2.8
175°	2.8	2.8	2.8	2.8	1.4
177.5°	2.8	2.8	2.8	1.4	1.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)