

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: P566242

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566242  
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-L930-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

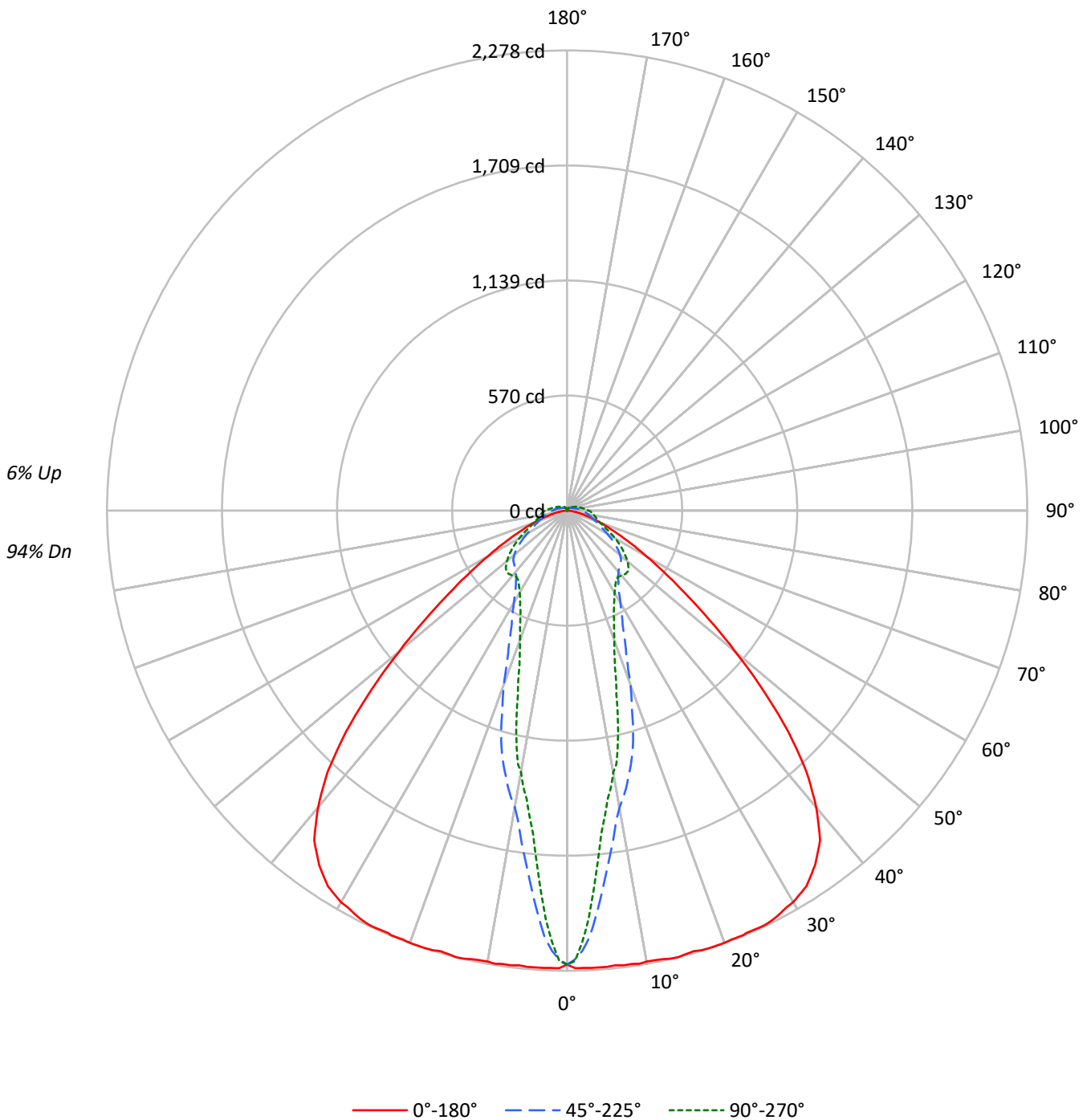
Lumens per Lamp: N/A  
Luminaire Lumens: 2770.0 lumens  
Efficiency: N/A  
Efficacy: 142.1 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 19.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	24189	24189	24189
5°	24406	19866	17783
10°	24598	14998	12870
15°	25046	12260	8912
20°	25693	8871	6294
25°	26494	6355	4951
30°	27170	5078	4217
35°	27332	4295	3777
40°	26056	3904	3786
45°	22612	3772	3890
50°	17348	3587	3630
55°	12572	3138	3220
60°	9122	2618	2724
65°	6638	2214	2232
70°	4891	1955	1925
75°	3473	1810	1794
80°	2276	1695	1767
85°	1071	1616	1769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.7	6.4
10°-20°	383.8	13.9
20°-30°	439.3	15.9
30°-40°	440.1	15.9
40°-50°	416.6	15.0
50°-60°	319.5	11.5
60°-70°	205.9	7.4
70°-80°	131.3	4.7
80°-90°	87.2	3.1
90°-100°	58.6	2.1
100°-110°	38.6	1.4
110°-120°	26.9	1.0
120°-130°	18.7	0.7
130°-140°	13.0	0.5
140°-150°	8.0	0.3
150°-160°	4.0	0.1
160°-170°	1.6	0.1
170°-180°	0.3	0.0
0°-30°	999.7	36.1
0°-40°	1439.8	52.0
0°-60°	2175.8	78.6
0°-90°	2600.3	93.9
90°-120°	124.1	4.5
90°-150°	163.8	5.9
90°-180°	170.0	6.1
0°-180°	2770.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2267	2142	1919	1790	1742	216
15°	2273	1637	1248	1025	943	645
25°	2274	1158	660	574	546	1048
35°	2141	644	442	427	422	1328
45°	1547	407	372	412	426	1176
55°	710	291	287	322	335	653
65°	284	183	180	206	213	292
75°	96	99	125	143	150	106
85°	13	45	88	115	124	18
90°	0	31	74	102	106	1
95°	0	23	61	84	88	0
105°	0	17	40	57	61	1
115°	1	14	30	41	44	1
125°	1	13	26	30	31	1
135°	1	10	20	24	26	1
145°	1	7	14	18	20	1
155°	1	4	8	13	14	1
165°	3	3	6	7	8	1
175°	3	3	3	3	1	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2247.2	2247.2	2247.2	2247.2	2247.2
1°	2265.6	2252.8	2223.0	2231.5	2230.1
2°	2265.6	2238.6	2180.4	2163.4	2137.9
3°	2267.0	2214.5	2115.1	2059.8	2024.3
4°	2267.0	2179.0	2018.6	1926.3	1880.9
5°	2267.0	2142.1	1919.2	1790.1	1741.8
6°	2264.2	2098.1	1818.5	1682.2	1609.8
7°	2268.5	2049.8	1727.6	1581.4	1524.6
8°	2267.0	1993.1	1643.8	1504.7	1442.3
9°	2271.3	1937.7	1553.0	1432.3	1385.5
10°	2267.0	1886.6	1493.4	1364.2	1315.9
11°	2267.0	1836.9	1450.8	1320.2	1279.0
12°	2269.9	1780.1	1403.9	1257.7	1200.9
13°	2277.0	1721.9	1350.0	1189.6	1122.9
14°	2278.4	1677.9	1300.3	1103.0	1033.4
15°	2272.7	1636.7	1247.8	1024.9	942.6
16°	2269.9	1594.2	1185.3	951.1	877.3
17°	2275.5	1544.5	1114.4	875.9	807.7
18°	2277.0	1499.1	1039.1	819.1	759.5
19°	2277.0	1463.6	978.1	766.6	715.5
20°	2277.0	1429.5	915.6	726.8	682.8
21°	2274.1	1386.9	844.6	685.6	648.7
22.5°	2275.5	1307.4	763.7	637.4	607.6
23°	2271.3	1287.5	743.8	624.6	593.4
24°	2272.7	1230.8	701.3	599.1	569.2
25°	2274.1	1158.4	660.1	573.5	546.5
26°	2271.3	1100.2	626.0	549.4	530.9
27°	2264.2	1053.3	601.9	529.5	512.5
28°	2254.3	990.9	576.3	512.5	496.8
29°	2244.3	919.9	550.8	494.0	482.6
30°	2238.6	863.1	526.7	479.8	469.9
32.5°	2204.6	750.9	477.0	451.4	442.9
35°	2140.7	644.5	441.5	427.3	421.6
37.5°	2056.9	562.1	414.5	411.7	413.1
40°	1919.2	496.8	394.6	407.4	420.2
42.5°	1754.6	445.7	380.4	411.7	425.9
45°	1547.3	407.4	371.9	411.7	425.9
47.5°	1317.3	376.2	362.0	397.5	411.7
50°	1087.4	347.8	342.1	376.2	389.0
52.5°	884.4	320.8	316.6	349.2	362.0
55°	709.8	291.0	286.8	322.2	335.0
57.5°	569.2	262.6	258.4	291.0	303.8
60°	454.3	234.2	227.1	259.8	272.6
62.5°	362.0	207.3	203.0	231.4	242.7
65°	283.9	183.1	180.3	205.8	212.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	224.3	160.4	161.8	183.1	191.6
70°	173.2	139.1	147.6	167.5	173.2
72.5°	130.6	117.8	136.3	153.3	160.4
75°	96.5	99.4	124.9	143.4	150.5
77.5°	66.7	82.3	115.0	134.9	142.0
80°	45.4	66.7	105.0	127.8	136.3
82.5°	27.0	55.4	96.5	120.7	130.6
85°	12.8	45.4	88.0	115.0	123.5
87.5°	4.3	36.9	79.5	109.3	116.4
90°	0.0	31.2	73.8	102.2	106.5
92.5°	0.0	27.0	66.7	93.7	96.5
95°	0.0	22.7	61.0	83.8	88.0
97.5°	0.0	21.3	56.8	75.2	80.9
100°	0.0	19.9	51.1	68.1	73.8
102.5°	0.0	17.0	45.4	61.0	66.7
105°	0.0	17.0	39.7	56.8	61.0
107.5°	1.4	15.6	36.9	51.1	56.8
110°	1.4	15.6	32.6	48.3	52.5
112.5°	1.4	15.6	31.2	44.0	49.7
115°	1.4	14.2	29.8	41.2	44.0
117.5°	1.4	14.2	28.4	36.9	39.7
120°	1.4	12.8	27.0	34.1	35.5
122.5°	1.4	12.8	25.6	31.2	32.6
125°	1.4	12.8	25.6	29.8	31.2
127.5°	1.4	11.4	24.1	28.4	28.4
130°	1.4	11.4	22.7	27.0	27.0
132.5°	1.4	9.9	21.3	25.6	27.0
135°	1.4	9.9	19.9	24.1	25.6
137.5°	1.4	8.5	18.5	22.7	24.1
140°	1.4	8.5	17.0	21.3	22.7
142.5°	1.4	7.1	15.6	19.9	21.3
145°	1.4	7.1	14.2	18.5	19.9
147.5°	1.4	7.1	12.8	17.0	18.5
150°	1.4	5.7	11.4	15.6	17.0
152.5°	1.4	5.7	9.9	14.2	15.6
155°	1.4	4.3	8.5	12.8	14.2
157.5°	1.4	4.3	8.5	11.4	12.8
160°	2.8	4.3	7.1	9.9	11.4
162.5°	1.4	2.8	7.1	8.5	9.9
165°	2.8	2.8	5.7	7.1	8.5
167.5°	2.8	2.8	4.3	5.7	7.1
170°	2.8	2.8	4.3	4.3	5.7
172.5°	2.8	2.8	2.8	4.3	2.8
175°	2.8	2.8	2.8	2.8	1.4
177.5°	2.8	2.8	2.8	2.8	1.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)