

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: P566108

Luminaire Tested: **4SNX-20SL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566108  
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-20SL-LN-UNV-L940-CD  
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

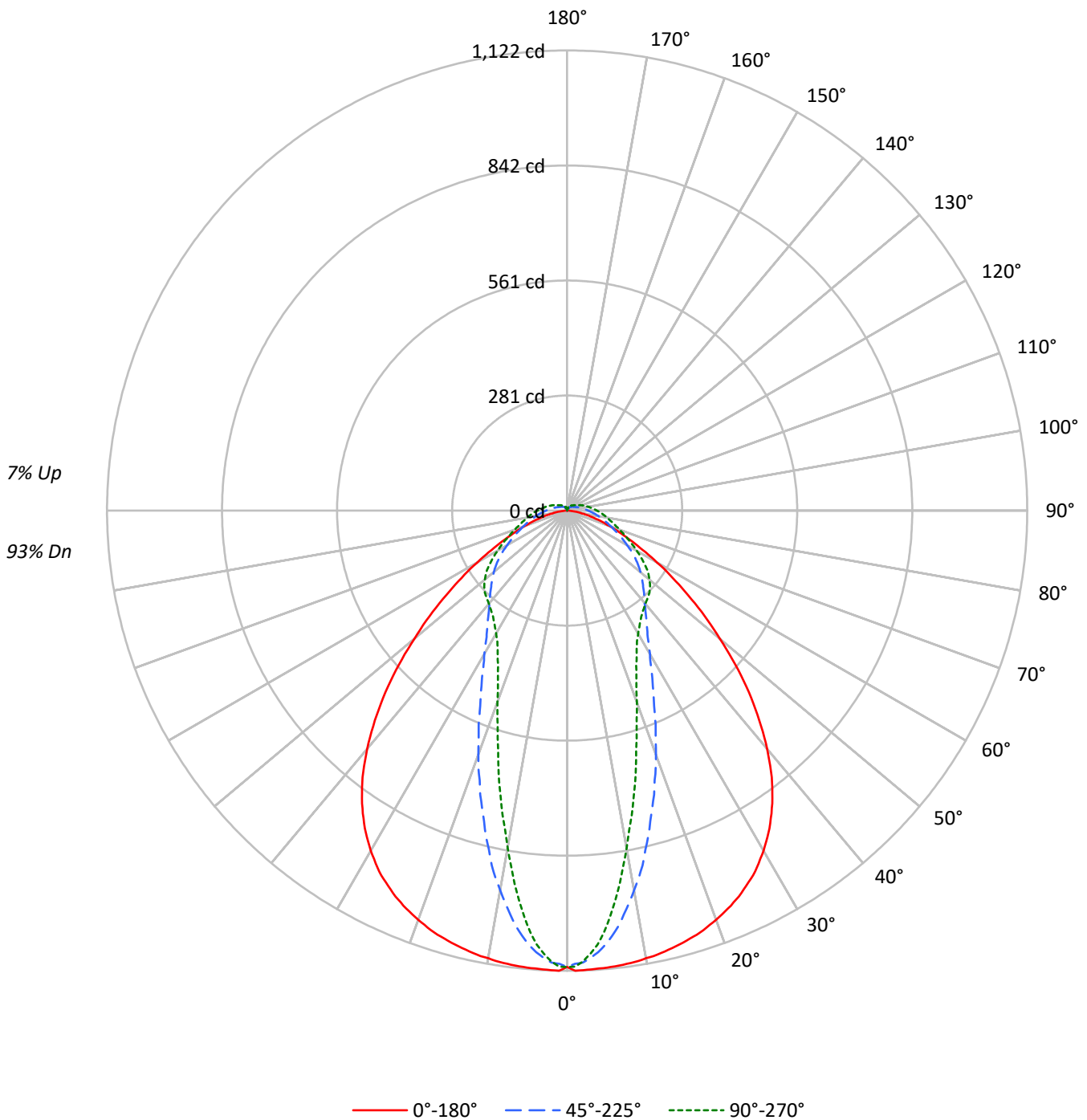
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1774.0 lumens  
Efficiency: N/A  
Efficacy: 146.6 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): 12.1  
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	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°	11979	11979	11979
5°	12042	11010	10536
10°	12024	9440	8174
15°	12019	7701	6127
20°	11980	6134	4585
25°	11872	4807	3639
30°	11623	3890	3104
35°	11135	3292	2824
40°	10301	2907	2673
45°	9157	2659	2590
50°	7757	2447	2447
55°	6373	2218	2234
60°	5096	1950	1960
65°	3956	1713	1706
70°	3072	1515	1508
75°	2375	1361	1375
80°	1680	1246	1278
85°	937	1161	1225



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	5.6
10°-20°	231.0	13.0
20°-30°	274.2	15.5
30°-40°	275.9	15.6
40°-50°	256.4	14.5
50°-60°	211.2	11.9
60°-70°	148.8	8.4
70°-80°	97.2	5.5
80°-90°	62.0	3.5
90°-100°	40.7	2.3
100°-110°	27.6	1.6
110°-120°	18.9	1.1
120°-130°	13.1	0.7
130°-140°	8.8	0.5
140°-150°	5.4	0.3
150°-160°	2.8	0.2
160°-170°	1.0	0.1
170°-180°	0.2	0.0
0°-30°	603.8	34.0
0°-40°	879.7	49.6
0°-60°	1347.3	75.9
0°-90°	1655.3	93.3
90°-120°	87.3	4.9
90°-150°	114.6	6.5
90°-180°	119.0	6.7
0°-180°	1774.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1118	1104	1064	1043	1032	106
15°	1091	974	784	685	648	308
25°	1019	753	499	419	402	469
35°	872	510	338	317	315	542
45°	627	336	262	276	284	481
55°	360	220	203	225	232	325
65°	169	133	140	157	163	172
75°	66	69	94	111	115	71
85°	11	32	63	82	86	14
90°	0	21	51	70	72	1
95°	0	16	43	59	61	0
105°	0	11	29	41	45	0
115°	1	9	20	30	32	1
125°	1	7	17	21	23	1
135°	1	6	13	17	18	1
145°	1	5	9	13	14	1
155°	1	4	6	9	10	0
165°	1	2	4	5	6	0
175°	2	2	2	2	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1112.9	1112.9	1112.9	1112.9	1112.9
1°	1122.2	1117.5	1105.4	1113.8	1112.0
2°	1121.3	1116.6	1102.7	1106.4	1099.9
3°	1120.3	1113.8	1092.4	1091.5	1082.2
4°	1119.4	1109.2	1079.4	1068.3	1060.8
5°	1118.5	1103.6	1063.6	1043.2	1032.0
6°	1117.5	1097.1	1043.2	1012.5	996.7
7°	1115.7	1086.9	1021.8	979.9	959.5
8°	1113.8	1077.6	994.8	944.6	919.5
9°	1112.0	1065.5	967.8	906.5	876.7
10°	1108.2	1053.4	940.0	867.4	835.8
11°	1106.4	1039.4	913.0	830.2	793.1
12°	1102.7	1024.6	884.2	791.2	758.7
13°	1098.9	1008.8	848.8	757.7	718.7
14°	1095.2	992.0	818.2	720.5	684.3
15°	1090.6	974.4	783.8	685.2	648.0
16°	1085.9	953.9	753.1	648.9	609.9
17°	1081.3	934.4	724.3	615.5	580.1
18°	1075.7	914.9	690.8	582.9	548.5
19°	1068.3	892.5	663.8	553.2	521.6
20°	1061.7	872.1	633.1	525.3	497.4
21°	1054.3	847.0	602.5	499.3	471.4
22.5°	1043.2	811.7	563.4	466.7	440.7
23°	1037.6	801.4	547.6	454.6	432.3
24°	1030.1	774.5	521.6	436.0	413.7
25°	1019.0	753.1	499.3	419.3	401.6
26°	1008.8	727.0	476.9	404.4	386.8
27°	998.5	701.9	457.4	388.6	373.8
28°	985.5	675.9	436.0	375.6	362.6
29°	971.6	651.7	418.4	364.5	354.2
30°	957.6	624.8	403.5	354.2	345.9
32.5°	918.6	565.3	365.4	334.7	329.1
35°	872.1	509.5	338.4	317.0	315.2
37.5°	820.0	458.4	314.2	303.1	305.0
40°	758.7	411.9	293.8	292.9	296.6
42.5°	693.6	371.9	278.0	284.5	290.1
45°	626.6	335.6	262.2	276.1	283.6
47.5°	556.9	304.0	248.2	265.9	274.3
50°	486.2	273.3	233.4	253.8	262.2
52.5°	423.0	246.4	218.5	239.9	249.2
55°	359.8	220.3	202.7	225.0	232.4
57.5°	305.0	196.2	185.9	208.3	213.8
60°	253.8	172.9	169.2	189.7	196.2
62.5°	207.3	152.5	153.4	172.9	179.4
65°	169.2	133.0	139.5	157.1	162.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	137.6	114.4	125.5	144.1	148.8
70°	108.8	97.6	114.4	131.1	135.7
72.5°	86.5	82.7	103.2	120.9	124.6
75°	66.0	68.8	93.9	110.6	115.3
77.5°	47.4	57.6	84.6	102.3	106.0
80°	33.5	47.4	77.2	94.8	98.6
82.5°	21.4	39.0	69.7	88.3	92.0
85°	11.2	31.6	63.2	81.8	85.5
87.5°	4.6	26.0	56.7	75.3	79.0
90°	0.0	21.4	51.1	69.7	72.5
92.5°	0.0	18.6	46.5	64.2	66.9
95°	0.0	15.8	42.8	58.6	61.4
97.5°	0.0	14.9	38.1	53.9	56.7
100°	0.0	13.0	34.4	49.3	53.0
102.5°	0.0	12.1	31.6	44.6	48.3
105°	0.0	11.2	28.8	40.9	44.6
107.5°	0.0	10.2	27.0	38.1	40.9
110°	0.0	10.2	24.2	35.3	38.1
112.5°	0.9	9.3	22.3	31.6	34.4
115°	0.9	9.3	20.5	29.8	31.6
117.5°	0.9	9.3	19.5	27.0	28.8
120°	0.9	8.4	18.6	25.1	27.0
122.5°	0.9	8.4	17.7	23.2	24.2
125°	0.9	7.4	16.7	21.4	23.2
127.5°	0.9	7.4	15.8	20.5	21.4
130°	0.9	7.4	14.9	18.6	20.5
132.5°	0.9	6.5	13.9	17.7	18.6
135°	0.9	6.5	13.0	16.7	17.7
137.5°	0.9	5.6	12.1	15.8	16.7
140°	0.9	5.6	11.2	14.9	15.8
142.5°	0.9	4.6	10.2	13.9	14.9
145°	0.9	4.6	9.3	13.0	13.9
147.5°	0.9	4.6	8.4	12.1	13.0
150°	0.9	3.7	7.4	11.2	12.1
152.5°	0.9	3.7	6.5	10.2	11.2
155°	0.9	3.7	6.5	9.3	10.2
157.5°	0.9	2.8	5.6	7.4	9.3
160°	0.9	2.8	4.6	6.5	8.4
162.5°	0.9	2.8	4.6	5.6	6.5
165°	0.9	1.9	3.7	4.6	5.6
167.5°	0.9	1.9	2.8	3.7	4.6
170°	0.9	1.9	2.8	2.8	3.7
172.5°	0.9	1.9	1.9	1.9	1.9
175°	1.9	1.9	1.9	1.9	0.9
177.5°	1.9	1.9	1.9	0.9	0.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)