

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: P566097

Luminaire Tested: **4SNX-20SL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566097  
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-20SL-LC-UNV-L850-CD  
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

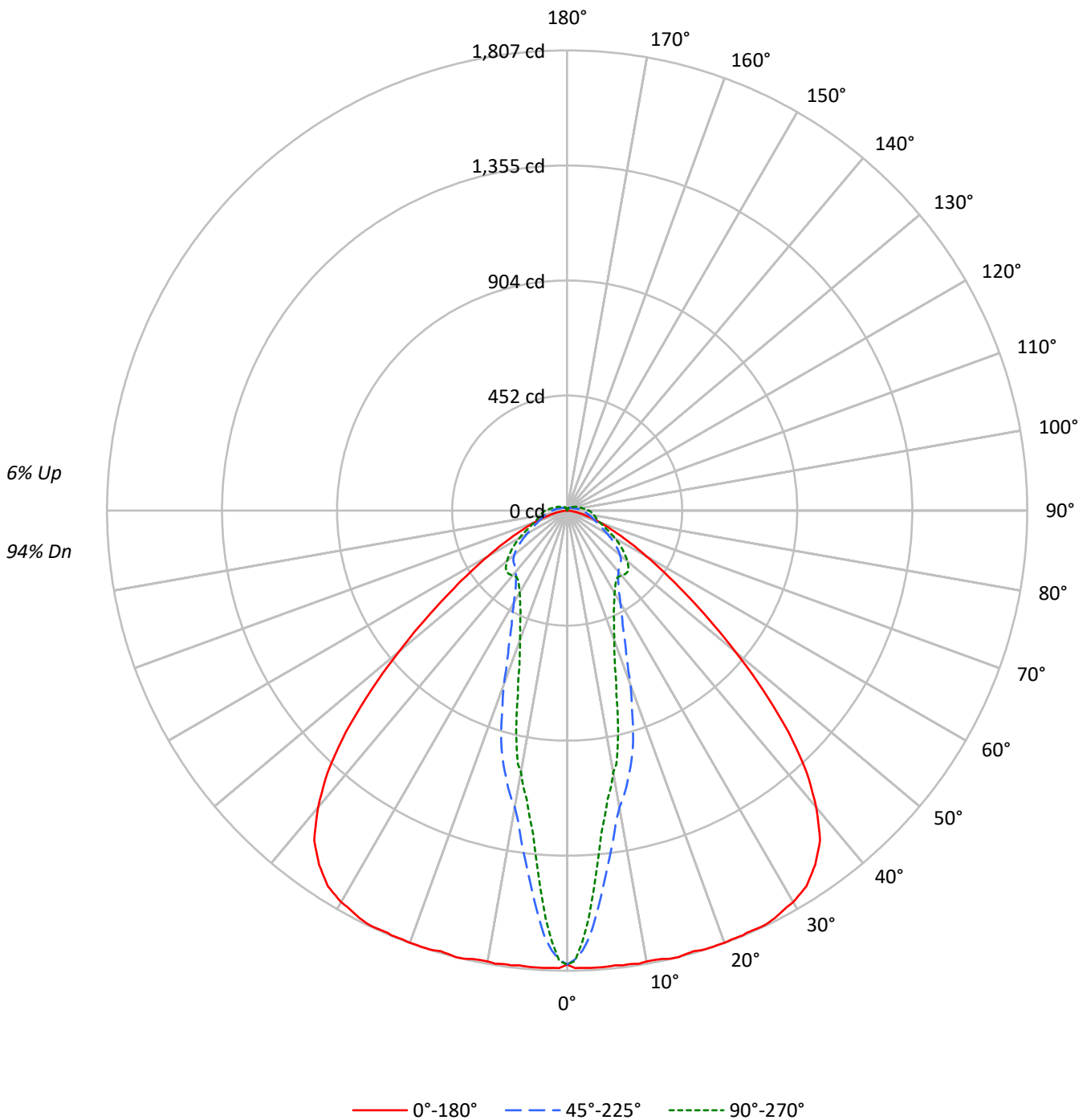
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2197.0 lumens  
Efficiency: N/A  
Efficacy: 181.6 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): 12.1  
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	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°	19185	19185	19185
5°	19358	15757	14104
10°	19510	11896	10208
15°	19866	9724	7068
20°	20378	7036	4992
25°	21014	5040	3928
30°	21551	4027	3345
35°	21678	3407	2996
40°	20666	3097	3003
45°	17934	2992	3085
50°	13758	2845	2879
55°	9972	2488	2554
60°	7234	2076	2160
65°	5265	1756	1771
70°	3880	1551	1527
75°	2757	1436	1422
80°	1805	1344	1402
85°	845	1282	1404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.2	6.4
10°-20°	304.4	13.9
20°-30°	348.4	15.9
30°-40°	349.0	15.9
40°-50°	330.4	15.0
50°-60°	253.4	11.5
60°-70°	163.3	7.4
70°-80°	104.2	4.7
80°-90°	69.2	3.1
90°-100°	46.5	2.1
100°-110°	30.6	1.4
110°-120°	21.3	1.0
120°-130°	14.9	0.7
130°-140°	10.3	0.5
140°-150°	6.3	0.3
150°-160°	3.2	0.1
160°-170°	1.2	0.1
170°-180°	0.2	0.0
0°-30°	792.9	36.1
0°-40°	1142.0	52.0
0°-60°	1725.7	78.6
0°-90°	2062.4	93.9
90°-120°	98.4	4.5
90°-150°	129.9	5.9
90°-180°	135.0	6.1
0°-180°	2197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1798	1699	1522	1420	1382	172
15°	1803	1298	990	813	748	511
25°	1804	919	524	455	434	832
35°	1698	511	350	339	334	1053
45°	1227	323	295	326	338	933
55°	563	231	227	256	266	518
65°	225	145	143	163	169	232
75°	77	79	99	114	119	84
85°	10	36	70	91	98	14
90°	0	25	58	81	84	0
95°	0	18	48	66	70	0
105°	0	14	32	45	48	1
115°	1	11	24	33	35	1
125°	1	10	20	24	25	1
135°	1	8	16	19	20	1
145°	1	6	11	15	16	1
155°	1	3	7	10	11	1
165°	2	2	4	6	7	1
175°	2	2	2	2	1	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1782.3	1782.3	1782.3	1782.3	1782.3
1°	1796.9	1786.8	1763.2	1769.9	1768.8
2°	1796.9	1775.6	1729.4	1715.9	1695.6
3°	1798.1	1756.4	1677.6	1633.7	1605.5
4°	1798.1	1728.3	1601.0	1527.9	1491.8
5°	1798.1	1699.0	1522.2	1419.8	1381.5
6°	1795.8	1664.1	1442.3	1334.2	1276.8
7°	1799.2	1625.8	1370.2	1254.3	1209.2
8°	1798.1	1580.8	1303.8	1193.5	1143.9
9°	1801.5	1536.9	1231.7	1136.0	1098.9
10°	1798.1	1496.3	1184.5	1082.0	1043.7
11°	1798.1	1456.9	1150.7	1047.1	1014.4
12°	1800.3	1411.9	1113.5	997.6	952.5
13°	1806.0	1365.7	1070.7	943.5	890.6
14°	1807.1	1330.8	1031.3	874.8	819.7
15°	1802.6	1298.2	989.7	812.9	747.6
16°	1800.3	1264.4	940.1	754.4	695.8
17°	1804.8	1225.0	883.8	694.7	640.6
18°	1806.0	1189.0	824.2	649.6	602.4
19°	1806.0	1160.8	775.8	608.0	567.5
20°	1806.0	1133.8	726.2	576.5	541.6
21°	1803.7	1100.0	669.9	543.8	514.5
22.5°	1804.8	1037.0	605.7	505.5	481.9
23°	1801.5	1021.2	590.0	495.4	470.6
24°	1802.6	976.2	556.2	475.1	451.5
25°	1803.7	918.7	523.5	454.9	433.5
26°	1801.5	872.6	496.5	435.7	421.1
27°	1795.8	835.4	477.4	420.0	406.5
28°	1787.9	785.9	457.1	406.5	394.1
29°	1780.1	729.6	436.9	391.8	382.8
30°	1775.6	684.6	417.7	380.6	372.7
32.5°	1748.5	595.6	378.3	358.0	351.3
35°	1697.9	511.2	350.2	338.9	334.4
37.5°	1631.4	445.9	328.8	326.5	327.6
40°	1522.2	394.1	313.0	323.1	333.3
42.5°	1391.6	353.5	301.7	326.5	337.8
45°	1227.2	323.1	295.0	326.5	337.8
47.5°	1044.8	298.4	287.1	315.3	326.5
50°	862.4	275.8	271.3	298.4	308.5
52.5°	701.4	254.5	251.1	277.0	287.1
55°	563.0	230.8	227.4	255.6	265.7
57.5°	451.5	208.3	204.9	230.8	240.9
60°	360.3	185.8	180.1	206.0	216.2
62.5°	287.1	164.4	161.0	183.5	192.5
65°	225.2	145.2	143.0	163.3	168.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	177.9	127.2	128.4	145.2	152.0
70°	137.4	110.3	117.1	132.9	137.4
72.5°	103.6	93.5	108.1	121.6	127.2
75°	76.6	78.8	99.1	113.7	119.3
77.5°	52.9	65.3	91.2	107.0	112.6
80°	36.0	52.9	83.3	101.3	108.1
82.5°	21.4	43.9	76.6	95.7	103.6
85°	10.1	36.0	69.8	91.2	98.0
87.5°	3.4	29.3	63.1	86.7	92.3
90°	0.0	24.8	58.5	81.1	84.4
92.5°	0.0	21.4	52.9	74.3	76.6
95°	0.0	18.0	48.4	66.4	69.8
97.5°	0.0	16.9	45.0	59.7	64.2
100°	0.0	15.8	40.5	54.0	58.5
102.5°	0.0	13.5	36.0	48.4	52.9
105°	0.0	13.5	31.5	45.0	48.4
107.5°	1.1	12.4	29.3	40.5	45.0
110°	1.1	12.4	25.9	38.3	41.7
112.5°	1.1	12.4	24.8	34.9	39.4
115°	1.1	11.3	23.6	32.7	34.9
117.5°	1.1	11.3	22.5	29.3	31.5
120°	1.1	10.1	21.4	27.0	28.1
122.5°	1.1	10.1	20.3	24.8	25.9
125°	1.1	10.1	20.3	23.6	24.8
127.5°	1.1	9.0	19.1	22.5	22.5
130°	1.1	9.0	18.0	21.4	21.4
132.5°	1.1	7.9	16.9	20.3	21.4
135°	1.1	7.9	15.8	19.1	20.3
137.5°	1.1	6.8	14.6	18.0	19.1
140°	1.1	6.8	13.5	16.9	18.0
142.5°	1.1	5.6	12.4	15.8	16.9
145°	1.1	5.6	11.3	14.6	15.8
147.5°	1.1	5.6	10.1	13.5	14.6
150°	1.1	4.5	9.0	12.4	13.5
152.5°	1.1	4.5	7.9	11.3	12.4
155°	1.1	3.4	6.8	10.1	11.3
157.5°	1.1	3.4	6.8	9.0	10.1
160°	2.3	3.4	5.6	7.9	9.0
162.5°	1.1	2.3	5.6	6.8	7.9
165°	2.3	2.3	4.5	5.6	6.8
167.5°	2.3	2.3	3.4	4.5	5.6
170°	2.3	2.3	3.4	3.4	4.5
172.5°	2.3	2.3	2.3	3.4	2.3
175°	2.3	2.3	2.3	2.3	1.1
177.5°	2.3	2.3	2.3	2.3	1.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)