

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: P568141

Luminaire Tested: **8SNX-96SL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

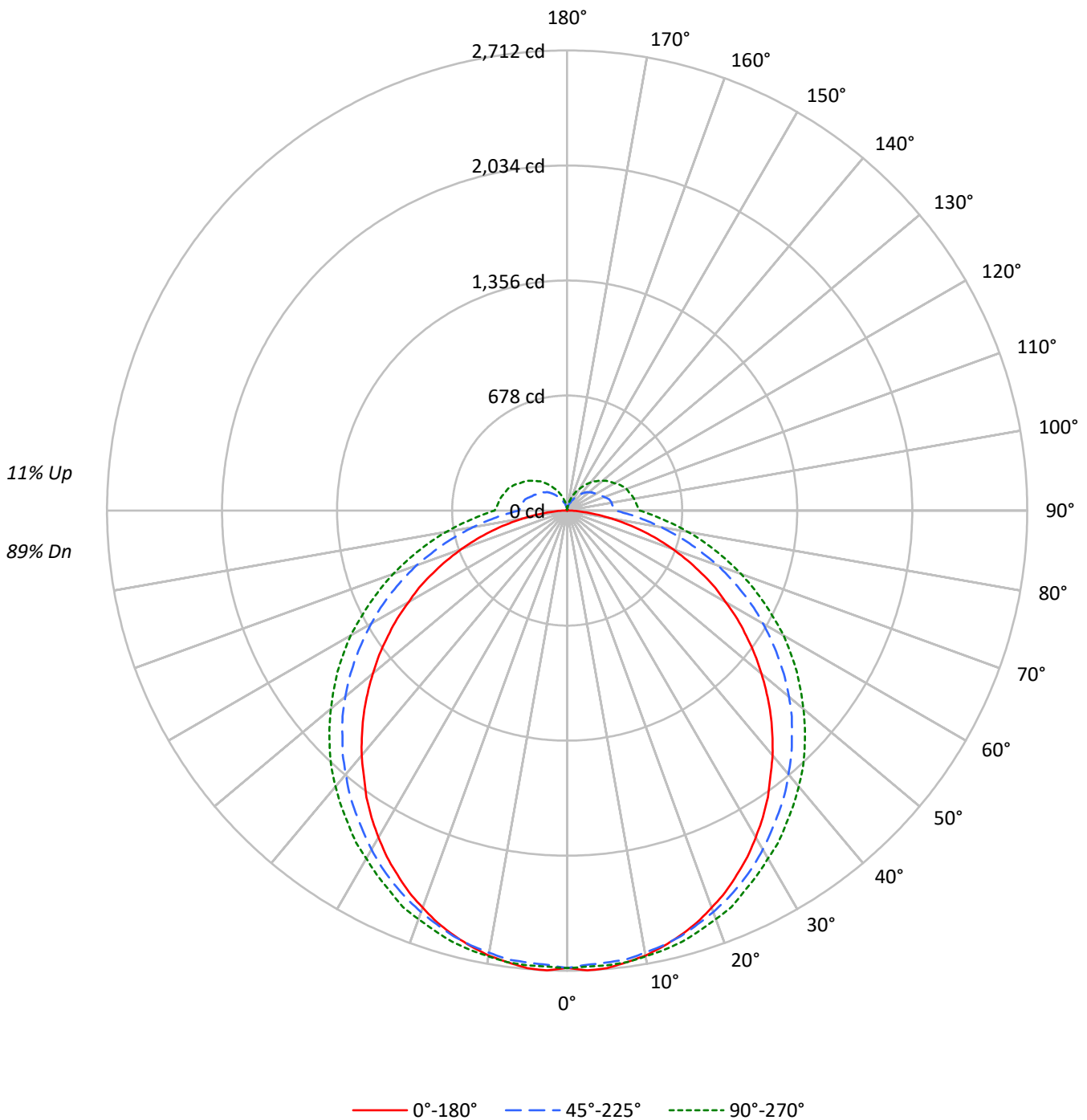
Test Method: LM-79-08  
Report Number: P568141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-96SL-LW-UNV-L850-CD  
Description: 8FT 9600 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9597.1 lumens  
Efficiency: N/A  
Efficacy: 149.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 64.2  
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

TEST NUMBER: P568141  
CATALOG NUMBER: 8SNX-96SL-LW-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P568141

CATALOG NUMBER: 8SNX-96SL-LW-UNV-L850-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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	76	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

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

	0°	45°	90°
0°	14509	14509	14509
5°	14597	13855	13733
10°	14497	13318	13047
15°	14352	12796	12429
20°	14155	12253	11810
25°	13926	11732	11205
30°	13653	11193	10626
35°	13354	10653	10083
40°	13011	10124	9566
45°	12640	9594	9037
50°	12216	9046	8481
55°	11750	8435	7935
60°	11202	7795	7358
65°	10638	7105	6700
70°	9844	6366	6054
75°	8794	5503	5368
80°	7088	4631	4684
85°	4992	3822	3981



TEST NUMBER: P568141

CATALOG NUMBER: 8SNX-96SL-LW-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.1	2.7
10°-20°	736.0	7.7
20°-30°	1119.1	11.7
30°-40°	1358.5	14.2
40°-50°	1435.5	15.0
50°-60°	1343.3	14.0
60°-70°	1102.2	11.5
70°-80°	758.1	7.9
80°-90°	415.1	4.3
90°-100°	267.3	2.8
100°-110°	239.9	2.5
110°-120°	198.6	2.1
120°-130°	152.9	1.6
130°-140°	107.4	1.1
140°-150°	64.7	0.7
150°-160°	31.0	0.3
160°-170°	10.2	0.1
170°-180°	1.2	0.0
0°-30°	2111.1	22.0
0°-40°	3469.6	36.2
0°-60°	6248.4	65.1
0°-90°	8523.8	88.8
90°-120°	705.8	7.4
90°-150°	1030.9	10.7
90°-180°	1073.0	11.2
0°-180°	9597.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2696	2696	2696	2696	2696	
5°	2707	2701	2674	2696	2690	257
15°	2590	2601	2596	2629	2629	730
25°	2368	2396	2424	2474	2474	1091
35°	2062	2112	2173	2234	2251	1288
45°	1695	1773	1873	1957	1979	1307
55°	1290	1395	1523	1618	1651	1154
65°	873	989	1140	1245	1278	864
75°	456	578	745	862	900	480
85°	100	239	406	517	556	116
90°	0	133	284	389	428	7
95°	0	128	272	372	411	0
105°	0	106	256	350	384	4
115°	6	94	217	311	350	6
125°	6	78	183	267	300	5
135°	6	61	150	217	245	4
145°	6	44	106	167	183	4
155°	6	28	67	106	122	3
165°	6	17	33	50	61	2
175°	6	6	11	11	6	1
180°	6	6	6	6	6	



TEST NUMBER: P568141

CATALOG NUMBER: 8SNX-96SL-LW-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2695.8	2695.8	2695.8	2695.8	2695.8
2.5°	2712.5	2706.9	2679.1	2701.4	2690.3
5°	2706.9	2701.4	2673.6	2695.8	2690.3
7.5°	2684.7	2684.7	2668.0	2690.3	2684.7
10°	2662.5	2662.5	2645.8	2673.6	2668.0
12.5°	2629.1	2634.7	2623.6	2656.9	2651.4
15°	2590.2	2601.3	2595.8	2629.1	2629.1
17.5°	2545.7	2556.9	2556.9	2595.8	2595.8
20°	2490.2	2506.8	2518.0	2562.4	2562.4
22.5°	2434.6	2456.8	2473.5	2512.4	2529.1
25°	2367.9	2395.7	2423.5	2473.5	2473.5
27.5°	2301.2	2334.5	2367.9	2417.9	2423.5
30°	2223.4	2262.3	2306.7	2356.8	2367.9
32.5°	2145.5	2195.6	2240.0	2301.2	2317.8
35°	2062.2	2112.2	2173.3	2234.5	2251.1
37.5°	1967.7	2028.8	2106.6	2173.3	2190.0
40°	1884.3	1951.0	2028.8	2106.6	2123.3
42.5°	1789.8	1862.1	1956.6	2028.8	2056.6
45°	1695.3	1773.1	1873.2	1956.6	1978.8
47.5°	1595.3	1684.2	1795.4	1873.2	1901.0
50°	1495.2	1589.7	1706.4	1795.4	1817.6
52.5°	1395.2	1495.2	1617.5	1706.4	1734.2
55°	1289.5	1395.2	1523.0	1617.5	1650.8
57.5°	1189.5	1295.1	1428.5	1528.6	1561.9
60°	1078.3	1200.6	1334.0	1434.1	1473.0
62.5°	983.8	1095.0	1239.5	1339.6	1372.9
65°	872.7	989.4	1139.5	1245.1	1278.4
67.5°	767.1	889.3	1039.4	1150.6	1183.9
70°	661.4	783.7	944.9	1050.5	1089.4
72.5°	555.8	683.7	839.3	956.0	995.0
75°	455.8	578.1	744.8	861.6	900.5
77.5°	350.2	483.6	650.3	767.1	811.5
80°	255.7	394.6	561.4	678.1	722.6
82.5°	172.3	311.3	478.0	594.7	639.2
85°	100.1	239.0	405.8	516.9	555.8
87.5°	50.0	183.4	339.1	450.2	489.1
90°	0.0	133.4	283.5	389.1	428.0
92.5°	0.0	127.8	277.9	378.0	416.9
95°	0.0	127.8	272.4	372.4	411.3
97.5°	0.0	122.3	266.8	372.4	405.8
100°	0.0	116.7	266.8	366.9	400.2
102.5°	0.0	111.2	261.2	361.3	394.6
105°	0.0	105.6	255.7	350.2	383.5
107.5°	5.6	105.6	244.6	344.6	378.0
110°	5.6	100.1	233.5	339.1	372.4



TEST NUMBER: P568141

CATALOG NUMBER: 8SNX-96SL-LW-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.6	94.5	222.3	327.9	361.3
115°	5.6	94.5	216.8	311.3	350.2
117.5°	5.6	88.9	205.7	300.2	339.1
120°	5.6	88.9	200.1	289.0	322.4
122.5°	5.6	83.4	189.0	277.9	311.3
125°	5.6	77.8	183.4	266.8	300.2
127.5°	5.6	72.3	177.9	255.7	289.0
130°	5.6	66.7	166.8	244.6	272.4
132.5°	5.6	66.7	161.2	227.9	261.2
135°	5.6	61.1	150.1	216.8	244.6
137.5°	5.6	55.6	139.0	205.7	233.5
140°	5.6	50.0	127.8	194.5	216.8
142.5°	5.6	50.0	116.7	177.9	200.1
145°	5.6	44.5	105.6	166.8	183.4
147.5°	5.6	38.9	94.5	150.1	166.8
150°	5.6	38.9	83.4	133.4	150.1
152.5°	5.6	33.4	72.3	122.3	139.0
155°	5.6	27.8	66.7	105.6	122.3
157.5°	5.6	27.8	55.6	88.9	105.6
160°	5.6	22.2	50.0	72.3	88.9
162.5°	5.6	22.2	44.5	61.1	77.8
165°	5.6	16.7	33.4	50.0	61.1
167.5°	5.6	16.7	27.8	38.9	50.0
170°	5.6	11.1	22.2	27.8	38.9
172.5°	5.6	11.1	16.7	16.7	16.7
175°	5.6	5.6	11.1	11.1	5.6
177.5°	5.6	5.6	5.6	5.6	5.6
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)