

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: P568100

Luminaire Tested: **8SNX-90SL-SLW-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568100  
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-90SL-SLW-UNV-L840-CD  
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

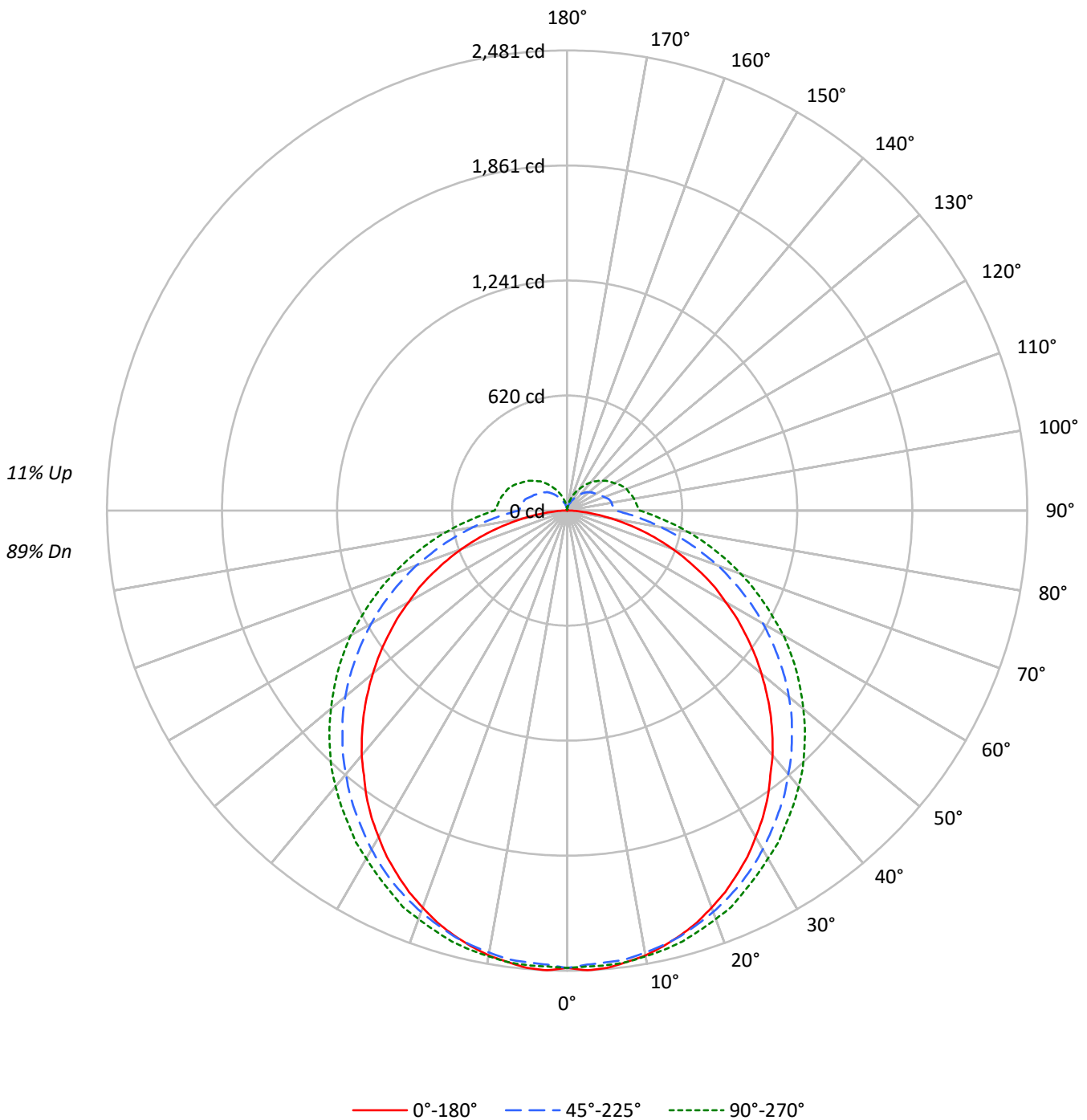
Lumens per Lamp: N/A  
Luminaire Lumens: 8777.1 lumens  
Efficiency: N/A  
Efficacy: 147.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 59.6  
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

TEST NUMBER: P568100

CATALOG NUMBER: 8SNX-90SL-SLW-UNV-L840-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P568100

CATALOG NUMBER: 8SNX-90SL-SLW-UNV-L840-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°	13269	13269	13269
5°	13362	12936	12917
10°	13283	12682	12598
15°	13162	12422	12303
20°	12994	12121	11975
25°	12798	11827	11632
30°	12561	11502	11293
35°	12302	11166	10975
40°	12003	10835	10671
45°	11680	10497	10341
50°	11310	10141	9972
55°	10905	9712	9610
60°	10428	9252	9206
65°	9942	8736	8697
70°	9255	8167	8200
75°	8344	7442	7648
80°	6844	6705	7105
85°	5051	6083	6546



TEST NUMBER: P568100

CATALOG NUMBER: 8SNX-90SL-SLW-UNV-L840-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.2	2.7
10°-20°	673.1	7.7
20°-30°	1023.5	11.7
30°-40°	1242.4	14.2
40°-50°	1312.9	15.0
50°-60°	1228.5	14.0
60°-70°	1008.0	11.5
70°-80°	693.3	7.9
80°-90°	379.7	4.3
90°-100°	244.5	2.8
100°-110°	219.4	2.5
110°-120°	181.6	2.1
120°-130°	139.8	1.6
130°-140°	98.3	1.1
140°-150°	59.2	0.7
150°-160°	28.3	0.3
160°-170°	9.3	0.1
170°-180°	1.1	0.0
0°-30°	1930.8	22.0
0°-40°	3173.1	36.2
0°-60°	5714.5	65.1
0°-90°	7795.5	88.8
90°-120°	645.5	7.4
90°-150°	942.8	10.7
90°-180°	982.0	11.2
0°-180°	8777.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2466	2466	2466	2466	2466	
5°	2476	2471	2445	2466	2460	235
15°	2369	2379	2374	2404	2404	668
25°	2166	2191	2216	2262	2262	998
35°	1886	1932	1988	2044	2059	1178
45°	1550	1622	1713	1789	1810	1195
55°	1179	1276	1393	1479	1510	1055
65°	798	905	1042	1139	1169	790
75°	417	529	681	788	824	439
85°	92	219	371	473	508	106
90°	0	122	259	356	391	6
95°	0	117	249	341	376	0
105°	0	97	234	320	351	3
115°	5	86	198	285	320	5
125°	5	71	168	244	274	5
135°	5	56	137	198	224	4
145°	5	41	97	152	168	3
155°	5	25	61	97	112	2
165°	5	15	30	46	56	1
175°	5	5	10	10	5	0
180°	5	5	5	5	5	



TEST NUMBER: P568100

CATALOG NUMBER: 8SNX-90SL-SLW-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2465.5	2465.5	2465.5	2465.5	2465.5
2.5°	2480.7	2475.6	2450.2	2470.6	2460.4
5°	2475.6	2470.6	2445.1	2465.5	2460.4
7.5°	2455.3	2455.3	2440.1	2460.4	2455.3
10°	2435.0	2435.0	2419.7	2445.1	2440.1
12.5°	2404.5	2409.6	2399.4	2429.9	2424.8
15°	2368.9	2379.1	2374.0	2404.5	2404.5
17.5°	2328.2	2338.4	2338.4	2374.0	2374.0
20°	2277.4	2292.6	2302.8	2343.5	2343.5
22.5°	2226.6	2246.9	2262.1	2297.7	2313.0
25°	2165.6	2191.0	2216.4	2262.1	2262.1
27.5°	2104.6	2135.1	2165.6	2211.3	2216.4
30°	2033.4	2069.0	2109.6	2155.4	2165.6
32.5°	1962.2	2008.0	2048.6	2104.6	2119.8
35°	1886.0	1931.7	1987.6	2043.6	2058.8
37.5°	1799.5	1855.5	1926.6	1987.6	2002.9
40°	1723.3	1784.3	1855.5	1926.6	1941.9
42.5°	1636.9	1703.0	1789.4	1855.5	1880.9
45°	1550.5	1621.6	1713.1	1789.4	1809.7
47.5°	1459.0	1540.3	1642.0	1713.1	1738.5
50°	1367.5	1453.9	1560.6	1642.0	1662.3
52.5°	1275.9	1367.5	1479.3	1560.6	1586.0
55°	1179.4	1275.9	1392.9	1479.3	1509.8
57.5°	1087.9	1184.4	1306.5	1398.0	1428.5
60°	986.2	1098.0	1220.0	1311.5	1347.1
62.5°	899.8	1001.4	1133.6	1225.1	1255.6
65°	798.1	904.9	1042.1	1138.7	1169.2
67.5°	701.5	813.4	950.6	1052.3	1082.8
70°	604.9	716.8	864.2	960.8	996.4
72.5°	508.3	625.3	767.6	874.4	909.9
75°	416.8	528.7	681.2	787.9	823.5
77.5°	320.3	442.3	594.8	701.5	742.2
80°	233.8	360.9	513.4	620.2	660.9
82.5°	157.6	284.7	437.2	543.9	584.6
85°	91.5	218.6	371.1	472.8	508.3
87.5°	45.8	167.8	310.1	411.8	447.3
90°	0.0	122.0	259.3	355.8	391.4
92.5°	0.0	116.9	254.2	345.7	381.3
95°	0.0	116.9	249.1	340.6	376.2
97.5°	0.0	111.8	244.0	340.6	371.1
100°	0.0	106.8	244.0	335.5	366.0
102.5°	0.0	101.7	238.9	330.4	360.9
105°	0.0	96.6	233.8	320.3	350.8
107.5°	5.1	96.6	223.7	315.2	345.7
110°	5.1	91.5	213.5	310.1	340.6



TEST NUMBER: P568100

CATALOG NUMBER: 8SNX-90SL-SLW-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.1	86.4	203.3	299.9	330.4
115°	5.1	86.4	198.3	284.7	320.3
117.5°	5.1	81.3	188.1	274.5	310.1
120°	5.1	81.3	183.0	264.3	294.8
122.5°	5.1	76.3	172.8	254.2	284.7
125°	5.1	71.2	167.8	244.0	274.5
127.5°	5.1	66.1	162.7	233.8	264.3
130°	5.1	61.0	152.5	223.7	249.1
132.5°	5.1	61.0	147.4	208.4	238.9
135°	5.1	55.9	137.3	198.3	223.7
137.5°	5.1	50.8	127.1	188.1	213.5
140°	5.1	45.8	116.9	177.9	198.3
142.5°	5.1	45.8	106.8	162.7	183.0
145°	5.1	40.7	96.6	152.5	167.8
147.5°	5.1	35.6	86.4	137.3	152.5
150°	5.1	35.6	76.3	122.0	137.3
152.5°	5.1	30.5	66.1	111.8	127.1
155°	5.1	25.4	61.0	96.6	111.8
157.5°	5.1	25.4	50.8	81.3	96.6
160°	5.1	20.3	45.8	66.1	81.3
162.5°	5.1	20.3	40.7	55.9	71.2
165°	5.1	15.3	30.5	45.8	55.9
167.5°	5.1	15.3	25.4	35.6	45.8
170°	5.1	10.2	20.3	25.4	35.6
172.5°	5.1	10.2	15.3	15.3	15.3
175°	5.1	5.1	10.2	10.2	5.1
177.5°	5.1	5.1	5.1	5.1	5.1
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)