

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: P568068

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-90SL-FDL-UNV-L840-CD  
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

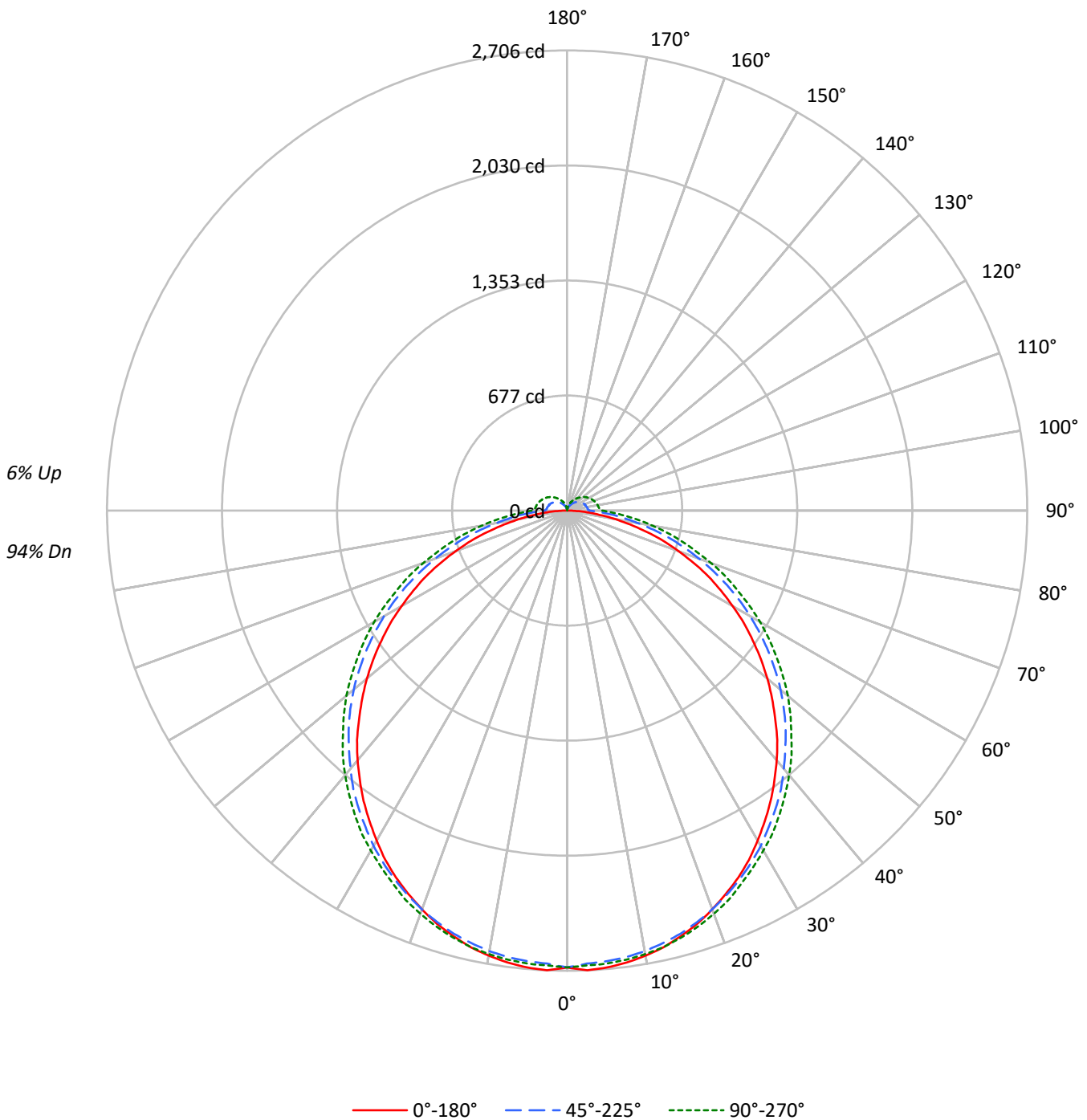
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8537.0 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Direct

Input Watts (W): 59.6  
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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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

	0°	45°	90°
0°	14458	14458	14458
5°	14564	14223	14240
10°	14511	14074	14061
15°	14409	13901	13860
20°	14268	13689	13625
25°	14106	13458	13345
30°	13882	13221	13087
35°	13658	12944	12817
40°	13409	12636	12514
45°	13095	12332	12161
50°	12794	11985	11838
55°	12419	11556	11389
60°	11999	11064	10948
65°	11558	10477	10339
70°	10788	9737	9709
75°	9868	8867	8954
80°	8510	7711	8118
85°	6871	6720	7134



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.8	3.0
10°-20°	731.1	8.6
20°-30°	1107.9	13.0
30°-40°	1337.5	15.7
40°-50°	1396.6	16.4
50°-60°	1283.1	15.0
60°-70°	1014.6	11.9
70°-80°	642.1	7.5
80°-90°	276.0	3.2
90°-100°	121.5	1.4
100°-110°	108.7	1.3
110°-120°	91.8	1.1
120°-130°	71.6	0.8
130°-140°	49.6	0.6
140°-150°	29.7	0.3
150°-160°	14.5	0.2
160°-170°	5.0	0.1
170°-180°	0.7	0.0
0°-30°	2093.8	24.5
0°-40°	3431.2	40.2
0°-60°	6110.9	71.6
0°-90°	8043.8	94.2
90°-120°	322.0	3.8
90°-150°	472.9	5.5
90°-180°	493.0	5.8
0°-180°	8537.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2686	2686	2686	2686	2686	
5°	2697	2690	2661	2683	2674	256
15°	2590	2590	2576	2603	2599	731
25°	2381	2392	2395	2426	2422	1097
35°	2086	2110	2138	2171	2178	1304
45°	1730	1772	1817	1852	1864	1336
55°	1333	1388	1445	1492	1503	1193
65°	918	969	1037	1086	1102	904
75°	484	541	620	673	698	513
85°	118	181	260	316	336	130
90°	8	65	133	186	206	10
95°	2	56	121	169	188	1
105°	2	51	113	159	175	2
115°	2	44	103	144	159	2
125°	3	39	86	124	138	3
135°	3	30	70	98	110	2
145°	3	23	48	74	82	2
155°	3	15	32	47	56	1
165°	4	11	17	23	32	1
175°	4	6	8	8	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2686.4	2686.4	2686.4	2686.4	2686.4
2.5°	2706.1	2697.0	2666.8	2687.9	2677.4
5°	2697.0	2689.5	2660.7	2683.4	2674.3
7.5°	2680.4	2674.3	2648.6	2672.8	2663.8
10°	2657.7	2653.2	2630.5	2654.7	2648.6
12.5°	2629.0	2627.5	2604.8	2632.0	2627.5
15°	2589.7	2589.7	2576.1	2603.3	2598.7
17.5°	2547.3	2548.9	2538.3	2567.0	2564.0
20°	2495.9	2503.5	2495.9	2526.2	2523.2
22.5°	2440.0	2450.6	2447.6	2477.8	2479.3
25°	2381.1	2391.6	2394.7	2426.4	2421.9
27.5°	2316.0	2332.7	2338.7	2367.4	2365.9
30°	2240.5	2263.1	2276.7	2300.9	2308.5
32.5°	2163.4	2190.6	2207.2	2240.5	2249.5
35°	2086.3	2110.4	2137.7	2170.9	2178.5
37.5°	2001.6	2028.8	2065.1	2096.8	2105.9
40°	1916.9	1947.2	1981.9	2016.7	2030.3
42.5°	1829.3	1861.0	1898.8	1939.6	1953.2
45°	1729.5	1771.8	1817.2	1851.9	1864.0
47.5°	1634.2	1681.1	1729.5	1767.3	1780.9
50°	1537.5	1587.4	1638.8	1673.5	1694.7
52.5°	1436.2	1490.6	1542.0	1585.9	1599.5
55°	1333.4	1387.8	1445.3	1492.1	1502.7
57.5°	1233.6	1286.5	1344.0	1387.8	1409.0
60°	1124.8	1182.2	1244.2	1288.0	1310.7
62.5°	1018.9	1074.9	1141.4	1188.3	1206.4
65°	917.7	969.1	1037.1	1085.5	1102.1
67.5°	805.8	864.7	929.7	985.7	1006.8
70°	695.4	751.4	825.4	878.3	899.5
72.5°	592.6	647.0	721.1	774.0	793.7
75°	483.8	541.2	619.8	672.7	698.4
77.5°	379.5	443.0	518.5	576.0	604.7
80°	282.7	338.6	420.3	483.8	509.5
82.5°	192.0	252.5	337.1	396.1	424.8
85°	117.9	181.4	260.0	316.0	335.6
87.5°	55.9	116.4	189.0	243.4	267.6
90°	7.6	65.0	133.0	185.9	205.6
92.5°	1.5	55.9	122.5	172.3	190.5
95°	1.5	55.9	120.9	169.3	187.5
97.5°	1.5	54.4	119.4	167.8	184.4
100°	1.5	52.9	117.9	164.8	182.9
102.5°	1.5	52.9	114.9	161.8	178.4
105°	1.5	51.4	113.4	158.7	175.4
107.5°	1.5	49.9	110.4	155.7	172.3
110°	1.5	46.9	108.8	151.2	167.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	45.4	105.8	148.2	163.3
115°	1.5	43.8	102.8	143.6	158.7
117.5°	1.5	42.3	98.3	139.1	154.2
120°	3.0	42.3	95.2	134.5	148.2
122.5°	3.0	40.8	90.7	128.5	142.1
125°	3.0	39.3	86.2	124.0	137.6
127.5°	3.0	37.8	81.6	117.9	130.0
130°	3.0	34.8	78.6	111.9	124.0
132.5°	3.0	33.3	74.1	104.3	116.4
135°	3.0	30.2	69.5	98.3	110.4
137.5°	3.0	28.7	65.0	92.2	102.8
140°	3.0	27.2	59.0	86.2	96.8
142.5°	3.0	24.2	54.4	80.1	89.2
145°	3.0	22.7	48.4	74.1	81.6
147.5°	3.0	19.7	43.8	68.0	75.6
150°	3.0	18.1	39.3	62.0	69.5
152.5°	3.0	16.6	34.8	54.4	62.0
155°	3.0	15.1	31.7	46.9	55.9
157.5°	3.0	13.6	27.2	40.8	49.9
160°	4.5	12.1	24.2	34.8	42.3
162.5°	4.5	10.6	19.7	28.7	37.8
165°	4.5	10.6	16.6	22.7	31.7
167.5°	4.5	9.1	13.6	18.1	25.7
170°	4.5	7.6	12.1	13.6	19.7
172.5°	4.5	6.0	9.1	9.1	10.6
175°	4.5	6.0	7.6	7.6	4.5
177.5°	4.5	4.5	4.5	4.5	3.0
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)