

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: P568081

Luminaire Tested: **8SNX-90SL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568081  
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: 8SNX-90SL-LC-UNV-L950-CD  
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

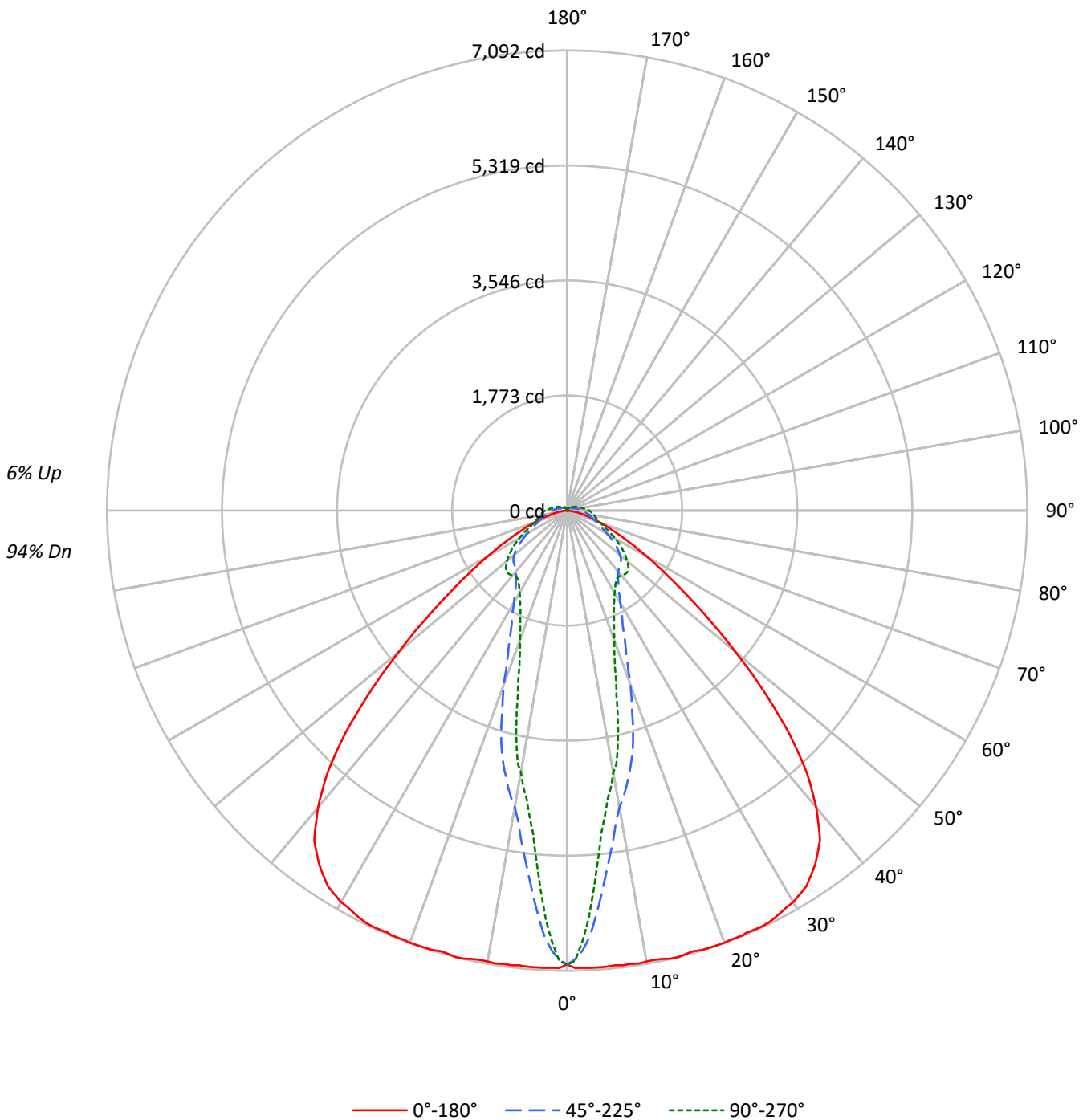
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8622.0 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
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	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°	37645	37645	37645
5°	38053	30957	27676
10°	38422	23397	20030
15°	39197	19146	13870
20°	40287	13869	9795
25°	41630	9946	7706
30°	42789	7955	6563
35°	43149	6736	5878
40°	41249	6130	5893
45°	35909	5929	6054
50°	27652	5645	5649
55°	20131	4943	5012
60°	14689	4131	4238
65°	10772	3499	3474
70°	8024	3096	2996
75°	5798	2873	2792
80°	3919	2698	2750
85°	1985	2581	2754



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.1	6.4
10°-20°	1194.5	13.9
20°-30°	1367.3	15.9
30°-40°	1369.7	15.9
40°-50°	1296.6	15.0
50°-60°	994.4	11.5
60°-70°	641.0	7.4
70°-80°	408.8	4.7
80°-90°	271.4	3.1
90°-100°	182.5	2.1
100°-110°	120.2	1.4
110°-120°	83.6	1.0
120°-130°	58.3	0.7
130°-140°	40.5	0.5
140°-150°	24.8	0.3
150°-160°	12.6	0.1
160°-170°	4.8	0.1
170°-180°	0.9	0.0
0°-30°	3111.8	36.1
0°-40°	4481.6	52.0
0°-60°	6772.6	78.6
0°-90°	8093.7	93.9
90°-120°	386.3	4.5
90°-150°	509.9	5.9
90°-180°	528.0	6.1
0°-180°	8622.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6995	6995	6995	6995	6995	
5°	7056	6668	5974	5572	5422	674
15°	7074	5095	3884	3190	2934	2007
25°	7078	3606	2055	1785	1701	3263
35°	6663	2006	1374	1330	1312	4134
45°	4816	1268	1158	1281	1326	3662
55°	2209	906	892	1003	1043	2032
65°	884	570	561	641	663	909
75°	300	309	389	446	468	330
85°	40	141	274	358	384	55
90°	0	97	230	318	331	2
95°	0	71	190	261	274	0
105°	0	53	124	177	190	3
115°	4	44	93	128	137	4
125°	4	40	80	93	97	4
135°	4	31	62	75	80	3
145°	4	22	44	57	62	3
155°	4	13	26	40	44	2
165°	9	9	18	22	26	2
175°	9	9	9	9	4	1
180°	9	9	9	9	9	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6994.6	6994.6	6994.6	6994.6	6994.6
1°	7052.0	7012.3	6919.5	6946.0	6941.6
2°	7052.0	6968.1	6786.9	6733.9	6654.4
3°	7056.4	6893.0	6583.7	6411.3	6300.9
4°	7056.4	6782.5	6283.2	5996.0	5854.6
5°	7056.4	6667.6	5973.9	5571.8	5421.6
6°	7047.6	6530.6	5660.2	5236.0	5010.7
7°	7060.9	6380.4	5377.4	4922.3	4745.5
8°	7056.4	6203.7	5116.7	4683.7	4489.3
9°	7069.7	6031.3	4833.9	4458.3	4312.5
10°	7056.4	5872.3	4648.3	4246.2	4096.0
11°	7056.4	5717.6	4515.8	4109.3	3981.1
12°	7065.3	5540.9	4370.0	3914.8	3738.1
13°	7087.4	5359.7	4202.1	3702.8	3495.1
14°	7091.8	5222.7	4047.4	3433.2	3216.7
15°	7074.1	5094.6	3883.9	3190.2	2933.9
16°	7065.3	4962.0	3689.5	2960.4	2730.7
17°	7083.0	4807.4	3468.6	2726.3	2514.2
18°	7087.4	4666.0	3234.4	2549.5	2363.9
19°	7087.4	4555.5	3044.4	2386.0	2227.0
20°	7087.4	4449.5	2850.0	2262.3	2125.3
21°	7078.5	4316.9	2629.0	2134.2	2019.3
22.5°	7083.0	4069.5	2377.2	1983.9	1891.1
23°	7069.7	4007.6	2315.3	1944.2	1847.0
24°	7074.1	3830.9	2182.8	1864.6	1771.8
25°	7078.5	3605.5	2054.6	1785.1	1701.1
26°	7069.7	3424.4	1948.6	1710.0	1652.5
27°	7047.6	3278.6	1873.5	1648.1	1595.1
28°	7016.7	3084.2	1793.9	1595.1	1546.5
29°	6985.7	2863.2	1714.4	1537.7	1502.3
30°	6968.1	2686.5	1639.3	1493.5	1462.5
32.5°	6862.0	2337.4	1484.6	1405.1	1378.6
35°	6663.2	2006.0	1374.2	1330.0	1312.3
37.5°	6402.5	1749.8	1290.2	1281.4	1285.8
40°	5973.9	1546.5	1228.4	1268.1	1307.9
42.5°	5461.3	1387.4	1184.2	1281.4	1325.6
45°	4816.2	1268.1	1157.7	1281.4	1325.6
47.5°	4100.4	1170.9	1126.7	1237.2	1281.4
50°	3384.6	1082.5	1064.9	1170.9	1210.7
52.5°	2752.8	998.6	985.3	1087.0	1126.7
55°	2209.3	905.8	892.5	1003.0	1042.8
57.5°	1771.8	817.4	804.2	905.8	945.6
60°	1413.9	729.1	707.0	808.6	848.4
62.5°	1126.7	645.1	631.9	720.2	755.6
65°	883.7	570.0	561.2	640.7	662.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	698.1	499.3	503.7	570.0	596.5
70°	539.1	433.0	459.5	521.4	539.1
72.5°	406.5	366.7	424.2	477.2	499.3
75°	300.5	309.3	388.8	446.3	468.4
77.5°	207.7	256.3	357.9	419.8	441.9
80°	141.4	207.7	327.0	397.7	424.2
82.5°	84.0	172.3	300.5	375.6	406.5
85°	39.8	141.4	274.0	357.9	384.4
87.5°	13.3	114.9	247.4	340.2	362.3
90°	0.0	97.2	229.8	318.1	331.4
92.5°	0.0	84.0	207.7	291.6	300.5
95°	0.0	70.7	190.0	260.7	274.0
97.5°	0.0	66.3	176.7	234.2	251.9
100°	0.0	61.9	159.1	212.1	229.8
102.5°	0.0	53.0	141.4	190.0	207.7
105°	0.0	53.0	123.7	176.7	190.0
107.5°	4.4	48.6	114.9	159.1	176.7
110°	4.4	48.6	101.6	150.2	163.5
112.5°	4.4	48.6	97.2	137.0	154.6
115°	4.4	44.2	92.8	128.1	137.0
117.5°	4.4	44.2	88.4	114.9	123.7
120°	4.4	39.8	84.0	106.0	110.5
122.5°	4.4	39.8	79.5	97.2	101.6
125°	4.4	39.8	79.5	92.8	97.2
127.5°	4.4	35.3	75.1	88.4	88.4
130°	4.4	35.3	70.7	84.0	84.0
132.5°	4.4	30.9	66.3	79.5	84.0
135°	4.4	30.9	61.9	75.1	79.5
137.5°	4.4	26.5	57.4	70.7	75.1
140°	4.4	26.5	53.0	66.3	70.7
142.5°	4.4	22.1	48.6	61.9	66.3
145°	4.4	22.1	44.2	57.4	61.9
147.5°	4.4	22.1	39.8	53.0	57.4
150°	4.4	17.7	35.3	48.6	53.0
152.5°	4.4	17.7	30.9	44.2	48.6
155°	4.4	13.3	26.5	39.8	44.2
157.5°	4.4	13.3	26.5	35.3	39.8
160°	8.8	13.3	22.1	30.9	35.3
162.5°	4.4	8.8	22.1	26.5	30.9
165°	8.8	8.8	17.7	22.1	26.5
167.5°	8.8	8.8	13.3	17.7	22.1
170°	8.8	8.8	13.3	13.3	17.7
172.5°	8.8	8.8	8.8	13.3	8.8
175°	8.8	8.8	8.8	8.8	4.4
177.5°	8.8	8.8	8.8	8.8	4.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	8.8	8.8	8.8	8.8	8.8

(END OF REPORT)