

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: P568085

Luminaire Tested: **8SNX-90SL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-90SL-LN-UNV-L850-CD  
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

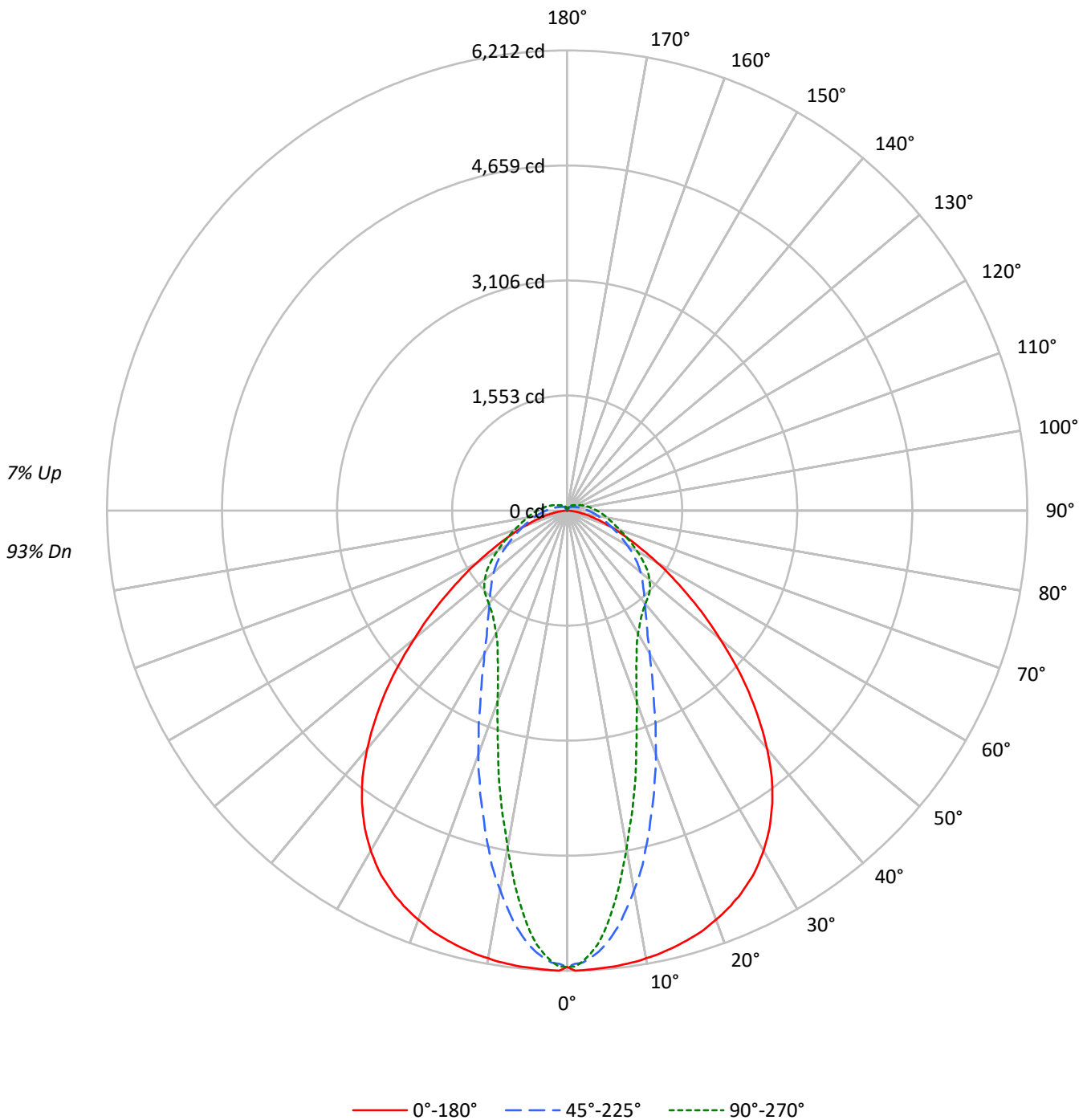
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9821.0 lumens  
Efficiency: N/A  
Efficacy: 164.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78  
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 (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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

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

	0°	45°	90°
0°	33158	33158	33158
5°	33391	30513	29165
10°	33407	26193	22628
15°	33453	21390	16959
20°	33411	17057	12692
25°	33177	13380	10073
30°	32555	10840	8592
35°	31264	9183	7815
40°	29001	8116	7397
45°	25865	7434	7169
50°	21993	6849	6772
55°	18150	6214	6185
60°	14598	5474	5425
65°	11420	4814	4721
70°	8963	4265	4176
75°	7050	3841	3805
80°	5136	3524	3537
85°	3082	3296	3392



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.6	5.6
10°-20°	1278.9	13.0
20°-30°	1518.1	15.5
30°-40°	1527.3	15.6
40°-50°	1419.7	14.5
50°-60°	1169.0	11.9
60°-70°	823.8	8.4
70°-80°	538.2	5.5
80°-90°	343.6	3.5
90°-100°	225.3	2.3
100°-110°	153.0	1.6
110°-120°	104.8	1.1
120°-130°	72.5	0.7
130°-140°	48.8	0.5
140°-150°	30.1	0.3
150°-160°	15.6	0.2
160°-170°	5.6	0.1
170°-180°	1.0	0.0
0°-30°	3342.5	34.0
0°-40°	4869.9	49.6
0°-60°	7458.6	75.9
0°-90°	9164.2	93.3
90°-120°	483.2	4.9
90°-150°	634.6	6.5
90°-180°	657.0	6.7
0°-180°	9821.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6161	6161	6161	6161	6161	
5°	6192	6110	5888	5775	5713	589
15°	6038	5394	4339	3793	3588	1705
25°	5641	4169	2764	2321	2224	2596
35°	4828	2821	1874	1755	1745	3003
45°	3469	1858	1452	1529	1570	2663
55°	1992	1220	1122	1246	1287	1799
65°	937	736	772	870	901	950
75°	365	381	520	612	638	395
85°	62	175	350	453	474	78
90°	0	118	283	386	402	4
95°	0	88	237	324	340	0
105°	0	62	160	226	247	0
115°	5	52	113	165	175	4
125°	5	41	93	118	129	5
135°	5	36	72	93	98	4
145°	5	26	52	72	77	3
155°	5	21	36	52	57	2
165°	5	10	21	26	31	1
175°	10	10	10	10	5	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6161.0	6161.0	6161.0	6161.0	6161.0
1°	6212.5	6186.7	6119.8	6166.2	6155.9
2°	6207.3	6181.6	6104.4	6125.0	6088.9
3°	6202.2	6166.2	6047.8	6042.6	5991.2
4°	6197.0	6140.4	5975.7	5913.9	5872.8
5°	6191.9	6109.5	5888.2	5775.0	5713.2
6°	6186.7	6073.5	5775.0	5605.1	5517.6
7°	6176.4	6016.9	5656.6	5425.0	5311.7
8°	6166.2	5965.4	5507.3	5229.4	5090.4
9°	6155.9	5898.5	5358.1	5018.4	4853.7
10°	6135.3	5831.6	5203.7	4802.2	4627.2
11°	6125.0	5754.4	5054.4	4596.3	4390.4
12°	6104.4	5672.0	4894.8	4380.1	4200.0
13°	6083.8	5584.5	4699.2	4194.8	3978.7
14°	6063.2	5491.9	4529.4	3989.0	3788.2
15°	6037.5	5394.1	4339.0	3793.4	3587.5
16°	6011.7	5280.9	4169.1	3592.6	3376.5
17°	5986.0	5172.8	4009.5	3407.3	3211.8
18°	5955.1	5064.7	3824.3	3227.2	3036.8
19°	5913.9	4941.2	3675.0	3062.5	2887.5
20°	5877.9	4827.9	3505.1	2908.1	2753.7
21°	5836.7	4689.0	3335.3	2764.0	2609.5
22.5°	5775.0	4493.4	3119.1	2583.8	2439.7
23°	5744.1	4436.7	3031.6	2516.9	2393.4
24°	5702.9	4287.5	2887.5	2414.0	2290.4
25°	5641.2	4169.1	2764.0	2321.3	2223.5
26°	5584.5	4025.0	2640.4	2239.0	2141.2
27°	5527.9	3886.0	2532.3	2151.5	2069.1
28°	5455.9	3741.9	2414.0	2079.4	2007.3
29°	5378.7	3608.1	2316.2	2017.6	1961.0
30°	5301.5	3458.8	2233.8	1961.0	1914.7
32.5°	5085.3	3129.4	2022.8	1852.9	1822.1
35°	4827.9	2820.6	1873.5	1755.1	1744.8
37.5°	4539.7	2537.5	1739.7	1677.9	1688.2
40°	4200.0	2280.1	1626.5	1621.3	1641.9
42.5°	3839.7	2058.8	1539.0	1575.0	1605.9
45°	3469.1	1858.1	1451.5	1528.7	1569.8
47.5°	3083.1	1683.1	1374.3	1472.1	1518.4
50°	2691.9	1513.2	1291.9	1405.1	1451.5
52.5°	2341.9	1364.0	1209.6	1327.9	1379.4
55°	1991.9	1219.8	1122.1	1245.6	1286.8
57.5°	1688.2	1086.0	1029.4	1152.9	1183.8
60°	1405.1	957.3	936.8	1050.0	1086.0
62.5°	1147.8	844.1	849.3	957.3	993.4
65°	936.8	736.0	772.1	869.8	900.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	761.8	633.1	694.9	797.8	823.5
70°	602.2	540.4	633.1	725.7	751.5
72.5°	478.7	458.1	571.3	669.1	689.7
75°	365.4	380.9	519.9	612.5	638.2
77.5°	262.5	319.1	468.4	566.2	586.8
80°	185.3	262.5	427.2	525.0	545.6
82.5°	118.4	216.2	386.0	489.0	509.6
85°	61.8	175.0	350.0	452.9	473.5
87.5°	25.7	144.1	314.0	416.9	437.5
90°	0.0	118.4	283.1	386.0	401.5
92.5°	0.0	102.9	257.4	355.1	370.6
95°	0.0	87.5	236.8	324.3	339.7
97.5°	0.0	82.4	211.0	298.5	314.0
100°	0.0	72.1	190.4	272.8	293.4
102.5°	0.0	66.9	175.0	247.1	267.6
105°	0.0	61.8	159.6	226.5	247.1
107.5°	0.0	56.6	149.3	211.0	226.5
110°	0.0	56.6	133.8	195.6	211.0
112.5°	5.1	51.5	123.5	175.0	190.4
115°	5.1	51.5	113.2	164.7	175.0
117.5°	5.1	51.5	108.1	149.3	159.6
120°	5.1	46.3	102.9	139.0	149.3
122.5°	5.1	46.3	97.8	128.7	133.8
125°	5.1	41.2	92.6	118.4	128.7
127.5°	5.1	41.2	87.5	113.2	118.4
130°	5.1	41.2	82.4	102.9	113.2
132.5°	5.1	36.0	77.2	97.8	102.9
135°	5.1	36.0	72.1	92.6	97.8
137.5°	5.1	30.9	66.9	87.5	92.6
140°	5.1	30.9	61.8	82.4	87.5
142.5°	5.1	25.7	56.6	77.2	82.4
145°	5.1	25.7	51.5	72.1	77.2
147.5°	5.1	25.7	46.3	66.9	72.1
150°	5.1	20.6	41.2	61.8	66.9
152.5°	5.1	20.6	36.0	56.6	61.8
155°	5.1	20.6	36.0	51.5	56.6
157.5°	5.1	15.4	30.9	41.2	51.5
160°	5.1	15.4	25.7	36.0	46.3
162.5°	5.1	15.4	25.7	30.9	36.0
165°	5.1	10.3	20.6	25.7	30.9
167.5°	5.1	10.3	15.4	20.6	25.7
170°	5.1	10.3	15.4	15.4	20.6
172.5°	5.1	10.3	10.3	10.3	10.3
175°	10.3	10.3	10.3	10.3	5.1
177.5°	10.3	10.3	10.3	5.1	5.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)