

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: P568037

Luminaire Tested: **8SNX-82SL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568037  
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-82SL-LN-UNV-L850-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

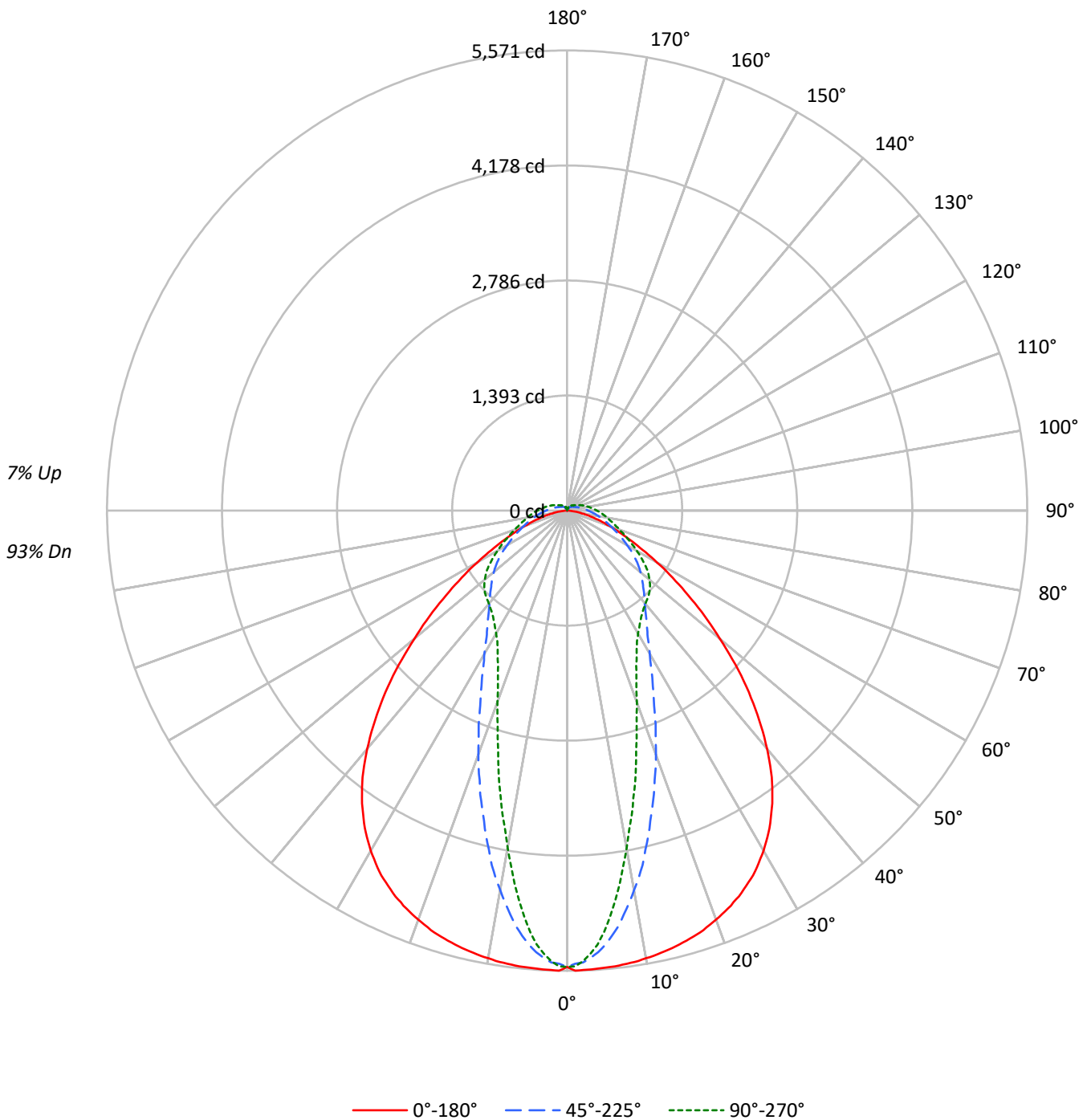
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8807.0 lumens  
Efficiency: N/A  
Efficacy: 167.4 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): 52.6  
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°	29735	29735	29735
5°	29943	27363	26153
10°	29957	23488	20291
15°	29999	19181	15208
20°	29962	15296	11381
25°	29751	11999	9032
30°	29193	9721	7705
35°	28036	8235	7009
40°	26006	7278	6634
45°	23195	6666	6429
50°	19722	6142	6073
55°	16276	5572	5546
60°	13091	4909	4865
65°	10240	4316	4233
70°	8037	3825	3745
75°	6323	3445	3412
80°	4607	3160	3172
85°	2763	2956	3042



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.3	5.6
10°-20°	1146.8	13.0
20°-30°	1361.3	15.5
30°-40°	1369.6	15.6
40°-50°	1273.1	14.5
50°-60°	1048.3	11.9
60°-70°	738.7	8.4
70°-80°	482.6	5.5
80°-90°	308.1	3.5
90°-100°	202.1	2.3
100°-110°	137.2	1.6
110°-120°	94.0	1.1
120°-130°	65.0	0.7
130°-140°	43.8	0.5
140°-150°	27.0	0.3
150°-160°	14.0	0.2
160°-170°	5.1	0.1
170°-180°	0.9	0.0
0°-30°	2997.4	34.0
0°-40°	4367.1	49.6
0°-60°	6688.5	75.9
0°-90°	8218.0	93.3
90°-120°	433.3	4.9
90°-150°	569.1	6.5
90°-180°	589.0	6.7
0°-180°	8807.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5525	5525	5525	5525	5525	
5°	5553	5479	5280	5179	5123	529
15°	5414	4837	3891	3402	3217	1529
25°	5059	3739	2479	2082	1994	2328
35°	4329	2529	1680	1574	1565	2692
45°	3111	1666	1302	1371	1408	2388
55°	1786	1094	1006	1117	1154	1613
65°	840	660	692	780	808	852
75°	328	342	466	549	572	354
85°	55	157	314	406	425	70
90°	0	106	254	346	360	3
95°	0	78	212	291	305	0
105°	0	55	143	203	222	0
115°	5	46	102	148	157	4
125°	5	37	83	106	115	4
135°	5	32	65	83	88	4
145°	5	23	46	65	69	3
155°	5	18	32	46	51	2
165°	5	9	18	23	28	1
175°	9	9	9	9	5	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5524.9	5524.9	5524.9	5524.9	5524.9
1°	5571.1	5548.0	5488.0	5529.5	5520.3
2°	5566.4	5543.4	5474.1	5492.6	5460.3
3°	5561.8	5529.5	5423.4	5418.7	5372.6
4°	5557.2	5506.4	5358.7	5303.3	5266.4
5°	5552.6	5478.7	5280.3	5178.7	5123.3
6°	5548.0	5446.4	5178.7	5026.4	4947.9
7°	5538.7	5395.7	5072.6	4864.9	4763.3
8°	5529.5	5349.5	4938.7	4689.5	4564.8
9°	5520.3	5289.5	4804.9	4500.2	4352.5
10°	5501.8	5229.5	4666.4	4306.4	4149.4
11°	5492.6	5160.3	4532.5	4121.7	3937.1
12°	5474.1	5086.4	4389.5	3927.9	3766.3
13°	5455.7	5007.9	4214.1	3761.7	3567.9
14°	5437.2	4924.9	4061.7	3577.1	3397.1
15°	5414.1	4837.2	3891.0	3401.7	3217.1
16°	5391.0	4735.6	3738.7	3221.7	3027.8
17°	5368.0	4638.7	3595.6	3055.5	2880.1
18°	5340.3	4541.8	3429.4	2894.0	2723.2
19°	5303.3	4431.0	3295.6	2746.3	2589.4
20°	5271.0	4329.4	3143.2	2607.8	2469.4
21°	5234.1	4204.8	2990.9	2478.6	2340.1
22.5°	5178.7	4029.4	2797.1	2317.0	2187.8
23°	5151.0	3978.7	2718.6	2257.0	2146.3
24°	5114.1	3844.8	2589.4	2164.7	2054.0
25°	5058.7	3738.7	2478.6	2081.6	1993.9
26°	5007.9	3609.4	2367.8	2007.8	1920.1
27°	4957.2	3484.8	2270.9	1929.3	1855.5
28°	4892.6	3355.6	2164.7	1864.7	1800.1
29°	4823.3	3235.5	2077.0	1809.3	1758.6
30°	4754.1	3101.7	2003.2	1758.6	1717.0
32.5°	4560.2	2806.3	1813.9	1661.6	1633.9
35°	4329.4	2529.4	1680.1	1573.9	1564.7
37.5°	4071.0	2275.5	1560.1	1504.7	1513.9
40°	3766.3	2044.7	1458.5	1453.9	1472.4
42.5°	3443.3	1846.2	1380.1	1412.4	1440.1
45°	3110.9	1666.2	1301.6	1370.8	1407.8
47.5°	2764.8	1509.3	1232.4	1320.1	1361.6
50°	2414.0	1357.0	1158.5	1260.1	1301.6
52.5°	2100.1	1223.1	1084.7	1190.8	1237.0
55°	1786.2	1093.9	1006.2	1117.0	1153.9
57.5°	1513.9	973.9	923.1	1033.9	1061.6
60°	1260.1	858.5	840.0	941.6	973.9
62.5°	1029.3	757.0	761.6	858.5	890.8
65°	840.0	660.0	692.3	780.0	807.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	683.1	567.7	623.1	715.4	738.5
70°	540.0	484.6	567.7	650.8	673.9
72.5°	429.3	410.8	512.3	600.0	618.5
75°	327.7	341.6	466.2	549.3	572.3
77.5°	235.4	286.2	420.0	507.7	526.2
80°	166.2	235.4	383.1	470.8	489.3
82.5°	106.2	193.9	346.2	438.5	456.9
85°	55.4	156.9	313.9	406.2	424.6
87.5°	23.1	129.2	281.6	373.9	392.3
90°	0.0	106.2	253.9	346.2	360.0
92.5°	0.0	92.3	230.8	318.5	332.3
95°	0.0	78.5	212.3	290.8	304.6
97.5°	0.0	73.8	189.2	267.7	281.6
100°	0.0	64.6	170.8	244.6	263.1
102.5°	0.0	60.0	156.9	221.5	240.0
105°	0.0	55.4	143.1	203.1	221.5
107.5°	0.0	50.8	133.9	189.2	203.1
110°	0.0	50.8	120.0	175.4	189.2
112.5°	4.6	46.2	110.8	156.9	170.8
115°	4.6	46.2	101.5	147.7	156.9
117.5°	4.6	46.2	96.9	133.9	143.1
120°	4.6	41.5	92.3	124.6	133.9
122.5°	4.6	41.5	87.7	115.4	120.0
125°	4.6	36.9	83.1	106.2	115.4
127.5°	4.6	36.9	78.5	101.5	106.2
130°	4.6	36.9	73.8	92.3	101.5
132.5°	4.6	32.3	69.2	87.7	92.3
135°	4.6	32.3	64.6	83.1	87.7
137.5°	4.6	27.7	60.0	78.5	83.1
140°	4.6	27.7	55.4	73.8	78.5
142.5°	4.6	23.1	50.8	69.2	73.8
145°	4.6	23.1	46.2	64.6	69.2
147.5°	4.6	23.1	41.5	60.0	64.6
150°	4.6	18.5	36.9	55.4	60.0
152.5°	4.6	18.5	32.3	50.8	55.4
155°	4.6	18.5	32.3	46.2	50.8
157.5°	4.6	13.8	27.7	36.9	46.2
160°	4.6	13.8	23.1	32.3	41.5
162.5°	4.6	13.8	23.1	27.7	32.3
165°	4.6	9.2	18.5	23.1	27.7
167.5°	4.6	9.2	13.8	18.5	23.1
170°	4.6	9.2	13.8	13.8	18.5
172.5°	4.6	9.2	9.2	9.2	9.2
175°	9.2	9.2	9.2	9.2	4.6
177.5°	9.2	9.2	9.2	4.6	4.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	4.6	4.6	4.6	4.6	4.6

(END OF REPORT)