

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: P568026

Luminaire Tested: **8SNX-82SL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568026  
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-82SL-LC-UNV-L830-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

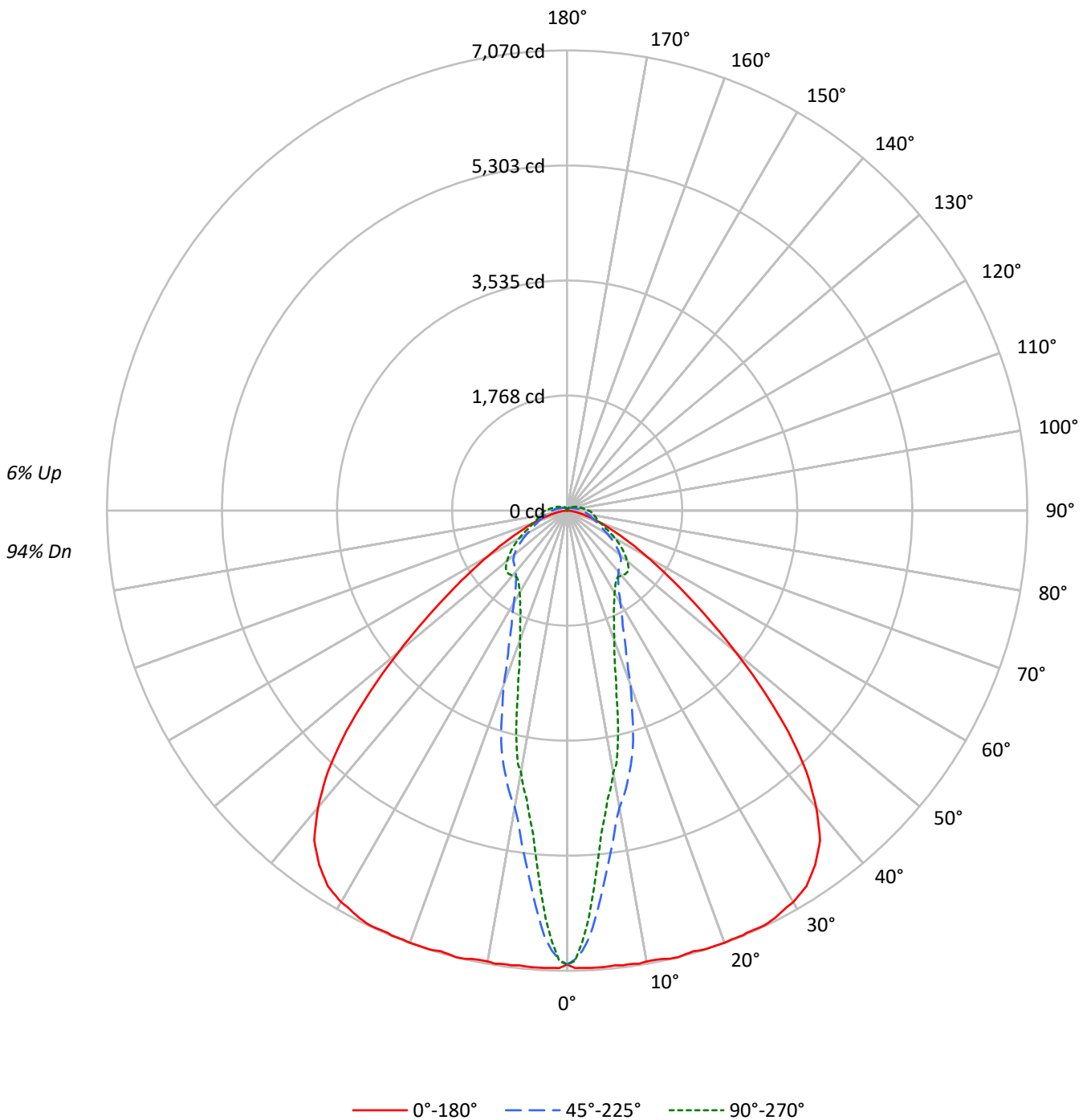
Lumens per Lamp: N/A  
Luminaire Lumens: 8596.0 lumens  
Efficiency: N/A  
Efficacy: 163.4 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 52.6  
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

TEST NUMBER: P568026

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L830-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P568026

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L830-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	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°	37531	37531	37531
5°	37939	30864	27592
10°	38307	23327	19970
15°	39079	19089	13828
20°	40165	13827	9766
25°	41505	9916	7683
30°	42660	7931	6543
35°	43019	6715	5861
40°	41125	6111	5875
45°	35801	5911	6035
50°	27569	5628	5632
55°	20070	4928	4997
60°	14645	4119	4225
65°	10740	3488	3463
70°	7999	3086	2986
75°	5781	2865	2784
80°	3908	2689	2742
85°	1975	2572	2746



TEST NUMBER: P568026

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L830-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.4	6.4
10°-20°	1190.9	13.9
20°-30°	1363.2	15.9
30°-40°	1365.6	15.9
40°-50°	1292.7	15.0
50°-60°	991.4	11.5
60°-70°	639.0	7.4
70°-80°	407.5	4.7
80°-90°	270.6	3.1
90°-100°	181.9	2.1
100°-110°	119.9	1.4
110°-120°	83.4	1.0
120°-130°	58.1	0.7
130°-140°	40.4	0.5
140°-150°	24.7	0.3
150°-160°	12.5	0.1
160°-170°	4.8	0.1
170°-180°	0.9	0.0
0°-30°	3102.5	36.1
0°-40°	4468.1	52.0
0°-60°	6752.2	78.6
0°-90°	8069.3	93.9
90°-120°	385.2	4.5
90°-150°	508.4	5.9
90°-180°	527.0	6.1
0°-180°	8596.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6974	6974	6974	6974	6974	
5°	7035	6648	5956	5555	5405	672
15°	7053	5079	3872	3181	2925	2000
25°	7057	3595	2048	1780	1696	3253
35°	6643	2000	1370	1326	1308	4122
45°	4802	1264	1154	1278	1322	3651
55°	2203	903	890	1000	1040	2025
65°	881	568	560	639	661	906
75°	300	308	388	445	467	329
85°	40	141	273	357	383	54
90°	0	97	229	317	330	2
95°	0	70	189	260	273	0
105°	0	53	123	176	189	3
115°	4	44	92	128	137	4
125°	4	40	79	92	97	4
135°	4	31	62	75	79	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	



TEST NUMBER: P568026

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6973.5	6973.5	6973.5	6973.5	6973.5
1°	7030.8	6991.1	6898.6	6925.0	6920.6
2°	7030.8	6947.1	6766.4	6713.6	6634.3
3°	7035.2	6872.2	6563.8	6392.0	6281.9
4°	7035.2	6762.0	6264.2	5977.9	5836.9
5°	7035.2	6647.5	5955.9	5555.0	5405.2
6°	7026.4	6510.9	5643.1	5220.2	4995.5
7°	7039.6	6361.2	5361.2	4907.4	4731.2
8°	7035.2	6185.0	5101.3	4669.6	4475.7
9°	7048.4	6013.2	4819.3	4444.9	4299.5
10°	7035.2	5854.6	4634.3	4233.4	4083.7
11°	7035.2	5700.4	4502.2	4096.9	3969.1
12°	7044.0	5524.2	4356.8	3903.0	3726.8
13°	7066.0	5343.6	4189.4	3691.6	3484.5
14°	7070.4	5207.0	4035.2	3422.9	3207.0
15°	7052.8	5079.2	3872.2	3180.6	2925.1
16°	7044.0	4947.1	3678.4	2951.5	2722.4
17°	7061.6	4792.9	3458.1	2718.0	2506.6
18°	7066.0	4651.9	3224.6	2541.8	2356.8
19°	7066.0	4541.8	3035.2	2378.8	2220.2
20°	7066.0	4436.1	2841.4	2255.5	2118.9
21°	7057.2	4303.9	2621.1	2127.7	2013.2
22.5°	7061.6	4057.2	2370.0	1978.0	1885.4
23°	7048.4	3995.6	2308.3	1938.3	1841.4
24°	7052.8	3819.3	2176.2	1859.0	1766.5
25°	7057.2	3594.7	2048.4	1779.7	1696.0
26°	7048.4	3414.1	1942.7	1704.8	1647.6
27°	7026.4	3268.7	1867.8	1643.2	1590.3
28°	6995.5	3074.9	1788.5	1590.3	1541.8
29°	6964.7	2854.6	1709.2	1533.0	1497.8
30°	6947.1	2678.4	1634.3	1489.0	1458.1
32.5°	6841.3	2330.4	1480.2	1400.9	1374.4
35°	6643.1	2000.0	1370.0	1326.0	1308.4
37.5°	6383.2	1744.5	1286.3	1277.5	1281.9
40°	5955.9	1541.8	1224.7	1264.3	1304.0
42.5°	5444.9	1383.2	1180.6	1277.5	1321.6
45°	4801.7	1264.3	1154.2	1277.5	1321.6
47.5°	4088.1	1167.4	1123.3	1233.5	1277.5
50°	3374.4	1079.3	1061.7	1167.4	1207.0
52.5°	2744.5	995.6	982.4	1083.7	1123.3
55°	2202.6	903.1	889.9	1000.0	1039.6
57.5°	1766.5	815.0	801.8	903.1	942.7
60°	1409.7	726.9	704.8	806.2	845.8
62.5°	1123.3	643.2	629.9	718.1	753.3
65°	881.0	568.3	559.5	638.8	660.8



TEST NUMBER: P568026

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	696.0	497.8	502.2	568.3	594.7
70°	537.4	431.7	458.1	519.8	537.4
72.5°	405.3	365.6	422.9	475.8	497.8
75°	299.6	308.4	387.7	444.9	467.0
77.5°	207.0	255.5	356.8	418.5	440.5
80°	141.0	207.0	326.0	396.5	422.9
82.5°	83.7	171.8	299.6	374.4	405.3
85°	39.6	141.0	273.1	356.8	383.3
87.5°	13.2	114.5	246.7	339.2	361.2
90°	0.0	96.9	229.1	317.2	330.4
92.5°	0.0	83.7	207.0	290.7	299.6
95°	0.0	70.5	189.4	259.9	273.1
97.5°	0.0	66.1	176.2	233.5	251.1
100°	0.0	61.7	158.6	211.5	229.1
102.5°	0.0	52.9	141.0	189.4	207.0
105°	0.0	52.9	123.3	176.2	189.4
107.5°	4.4	48.5	114.5	158.6	176.2
110°	4.4	48.5	101.3	149.8	163.0
112.5°	4.4	48.5	96.9	136.6	154.2
115°	4.4	44.1	92.5	127.8	136.6
117.5°	4.4	44.1	88.1	114.5	123.3
120°	4.4	39.6	83.7	105.7	110.1
122.5°	4.4	39.6	79.3	96.9	101.3
125°	4.4	39.6	79.3	92.5	96.9
127.5°	4.4	35.2	74.9	88.1	88.1
130°	4.4	35.2	70.5	83.7	83.7
132.5°	4.4	30.8	66.1	79.3	83.7
135°	4.4	30.8	61.7	74.9	79.3
137.5°	4.4	26.4	57.3	70.5	74.9
140°	4.4	26.4	52.9	66.1	70.5
142.5°	4.4	22.0	48.5	61.7	66.1
145°	4.4	22.0	44.1	57.3	61.7
147.5°	4.4	22.0	39.6	52.9	57.3
150°	4.4	17.6	35.2	48.5	52.9
152.5°	4.4	17.6	30.8	44.1	48.5
155°	4.4	13.2	26.4	39.6	44.1
157.5°	4.4	13.2	26.4	35.2	39.6
160°	8.8	13.2	22.0	30.8	35.2
162.5°	4.4	8.8	22.0	26.4	30.8
165°	8.8	8.8	17.6	22.0	26.4
167.5°	8.8	8.8	13.2	17.6	22.0
170°	8.8	8.8	13.2	13.2	17.6
172.5°	8.8	8.8	8.8	13.2	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



TEST NUMBER: P568026

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)