

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: P568024

Luminaire Tested: **8SNX-82SL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568024  
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-82SL-FDL-UNV-L940-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

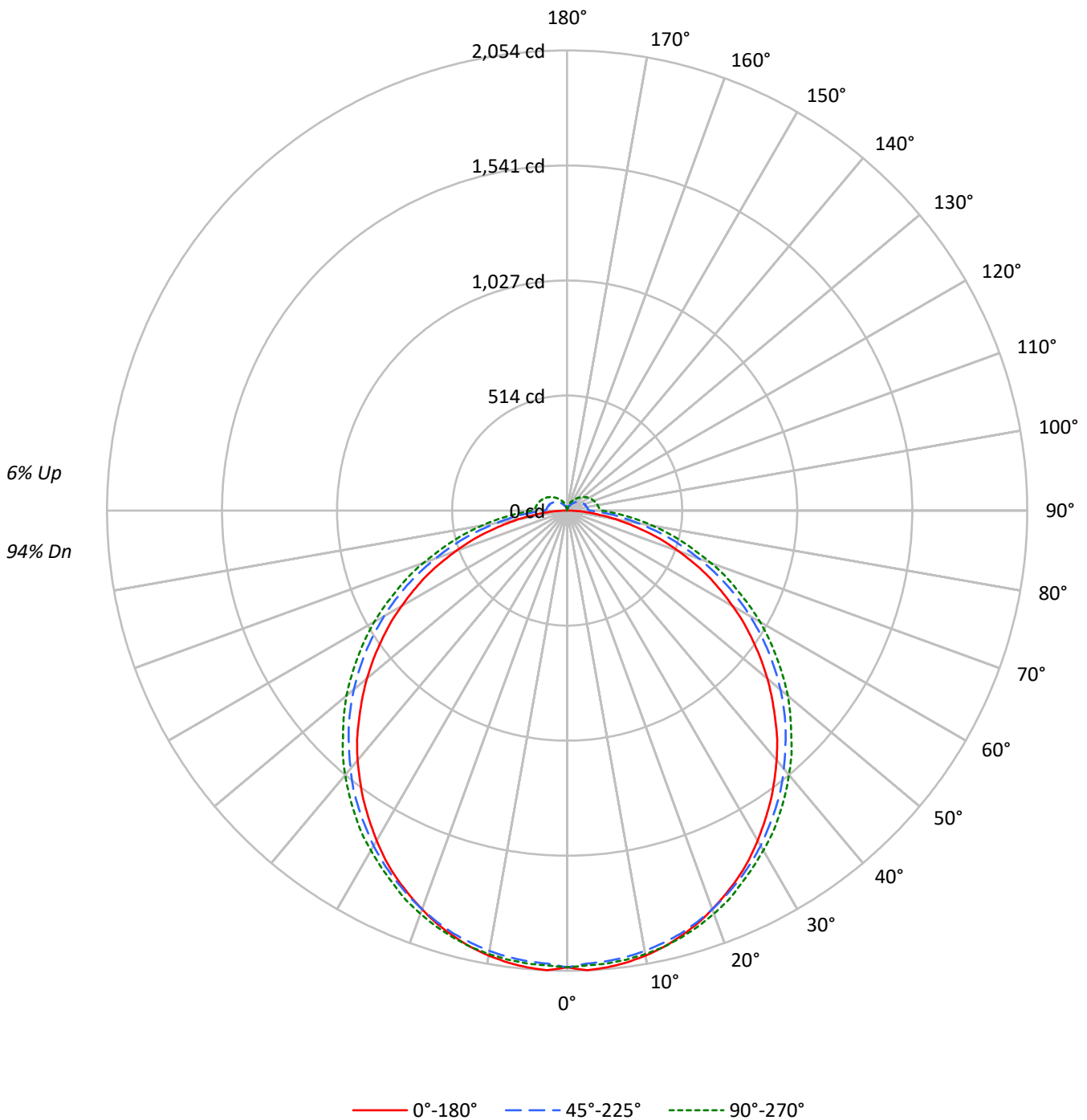
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6479.0 lumens  
Efficiency: N/A  
Efficacy: 123.2 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): 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: P568024  
CATALOG NUMBER: 8SNX-82SL-FDL-UNV-L940-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P568024

CATALOG NUMBER: 8SNX-82SL-FDL-UNV-L940-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	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°	10973	10973	10973
5°	11053	10795	10807
10°	11013	10681	10672
15°	10936	10550	10519
20°	10829	10390	10340
25°	10705	10214	10128
30°	10536	10034	9932
35°	10365	9823	9727
40°	10176	9590	9498
45°	9939	9359	9229
50°	9709	9096	8985
55°	9426	8770	8644
60°	9106	8397	8308
65°	8771	7951	7847
70°	8188	7389	7369
75°	7488	6729	6796
80°	6460	5853	6161
85°	5216	5100	5414



TEST NUMBER: P568024

CATALOG NUMBER: 8SNX-82SL-FDL-UNV-L940-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.4	3.0
10°-20°	554.8	8.6
20°-30°	840.8	13.0
30°-40°	1015.0	15.7
40°-50°	1060.0	16.4
50°-60°	973.8	15.0
60°-70°	770.0	11.9
70°-80°	487.3	7.5
80°-90°	209.5	3.2
90°-100°	92.2	1.4
100°-110°	82.5	1.3
110°-120°	69.7	1.1
120°-130°	54.3	0.8
130°-140°	37.6	0.6
140°-150°	22.6	0.3
150°-160°	11.0	0.2
160°-170°	3.8	0.1
170°-180°	0.6	0.0
0°-30°	1589.0	24.5
0°-40°	2604.1	40.2
0°-60°	4637.8	71.6
0°-90°	6104.7	94.2
90°-120°	244.4	3.8
90°-150°	358.9	5.5
90°-180°	374.0	5.8
0°-180°	6479.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2039	2039	2039	2039	2039	
5°	2047	2041	2019	2036	2030	194
15°	1965	1965	1955	1976	1972	554
25°	1807	1815	1817	1842	1838	832
35°	1583	1602	1622	1648	1653	990
45°	1313	1345	1379	1406	1415	1014
55°	1012	1053	1097	1132	1140	905
65°	696	735	787	824	836	686
75°	367	411	470	511	530	389
85°	90	138	197	240	255	99
90°	6	49	101	141	156	8
95°	1	42	92	128	142	1
105°	1	39	86	120	133	1
115°	1	33	78	109	120	1
125°	2	30	65	94	104	2
135°	2	23	53	75	84	2
145°	2	17	37	56	62	1
155°	2	12	24	36	42	1
165°	3	8	13	17	24	1
175°	3	5	6	6	3	0
180°	3	3	3	3	3	



TEST NUMBER: P568024

CATALOG NUMBER: 8SNX-82SL-FDL-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2038.8	2038.8	2038.8	2038.8	2038.8
2.5°	2053.7	2046.9	2023.9	2040.0	2031.9
5°	2046.9	2041.1	2019.3	2036.5	2029.6
7.5°	2034.2	2029.6	2010.1	2028.5	2021.6
10°	2017.0	2013.6	1996.4	2014.7	2010.1
12.5°	1995.2	1994.1	1976.9	1997.5	1994.1
15°	1965.4	1965.4	1955.1	1975.7	1972.3
17.5°	1933.3	1934.4	1926.4	1948.2	1945.9
20°	1894.3	1900.0	1894.3	1917.2	1914.9
22.5°	1851.8	1859.8	1857.5	1880.5	1881.6
25°	1807.1	1815.1	1817.4	1841.5	1838.0
27.5°	1757.7	1770.3	1774.9	1796.7	1795.6
30°	1700.4	1717.6	1727.9	1746.2	1752.0
32.5°	1641.8	1662.5	1675.1	1700.4	1707.2
35°	1583.3	1601.7	1622.3	1647.6	1653.3
37.5°	1519.1	1539.7	1567.3	1591.4	1598.2
40°	1454.8	1477.8	1504.2	1530.5	1540.9
42.5°	1388.3	1412.4	1441.1	1472.0	1482.4
45°	1312.6	1344.7	1379.1	1405.5	1414.7
47.5°	1240.3	1275.8	1312.6	1341.2	1351.6
50°	1166.8	1204.7	1243.7	1270.1	1286.2
52.5°	1090.0	1131.3	1170.3	1203.6	1213.9
55°	1012.0	1053.3	1096.9	1132.4	1140.5
57.5°	936.2	976.4	1020.0	1053.3	1069.3
60°	853.6	897.2	944.3	977.5	994.7
62.5°	773.3	815.8	866.2	901.8	915.6
65°	696.4	735.4	787.1	823.8	836.4
67.5°	611.5	656.3	705.6	748.1	764.1
70°	527.8	570.2	626.4	666.6	682.7
72.5°	449.8	491.1	547.3	587.4	602.4
75°	367.1	410.7	470.4	510.6	530.1
77.5°	288.0	336.2	393.5	437.1	458.9
80°	214.6	257.0	319.0	367.1	386.7
82.5°	145.7	191.6	255.9	300.6	322.4
85°	89.5	137.7	197.3	239.8	254.7
87.5°	42.5	88.3	143.4	184.7	203.1
90°	5.7	49.3	101.0	141.1	156.0
92.5°	1.1	42.5	92.9	130.8	144.6
95°	1.1	42.5	91.8	128.5	142.3
97.5°	1.1	41.3	90.6	127.4	140.0
100°	1.1	40.2	89.5	125.1	138.8
102.5°	1.1	40.2	87.2	122.8	135.4
105°	1.1	39.0	86.1	120.5	133.1
107.5°	1.1	37.9	83.8	118.2	130.8
110°	1.1	35.6	82.6	114.7	127.4



TEST NUMBER: P568024

CATALOG NUMBER: 8SNX-82SL-FDL-UNV-L940-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	34.4	80.3	112.4	123.9
115°	1.1	33.3	78.0	109.0	120.5
117.5°	1.1	32.1	74.6	105.6	117.0
120°	2.3	32.1	72.3	102.1	112.4
122.5°	2.3	31.0	68.8	97.5	107.8
125°	2.3	29.8	65.4	94.1	104.4
127.5°	2.3	28.7	62.0	89.5	98.7
130°	2.3	26.4	59.7	84.9	94.1
132.5°	2.3	25.2	56.2	79.2	88.3
135°	2.3	22.9	52.8	74.6	83.8
137.5°	2.3	21.8	49.3	70.0	78.0
140°	2.3	20.7	44.7	65.4	73.4
142.5°	2.3	18.4	41.3	60.8	67.7
145°	2.3	17.2	36.7	56.2	62.0
147.5°	2.3	14.9	33.3	51.6	57.4
150°	2.3	13.8	29.8	47.0	52.8
152.5°	2.3	12.6	26.4	41.3	47.0
155°	2.3	11.5	24.1	35.6	42.5
157.5°	2.3	10.3	20.7	31.0	37.9
160°	3.4	9.2	18.4	26.4	32.1
162.5°	3.4	8.0	14.9	21.8	28.7
165°	3.4	8.0	12.6	17.2	24.1
167.5°	3.4	6.9	10.3	13.8	19.5
170°	3.4	5.7	9.2	10.3	14.9
172.5°	3.4	4.6	6.9	6.9	8.0
175°	3.4	4.6	5.7	5.7	3.4
177.5°	3.4	3.4	3.4	3.4	2.3
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)