

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: P567202

Luminaire Tested: **8SNX-114SL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567202  
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-114SL-FDL-UNV-L830-CD  
Description: 8FT 11400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

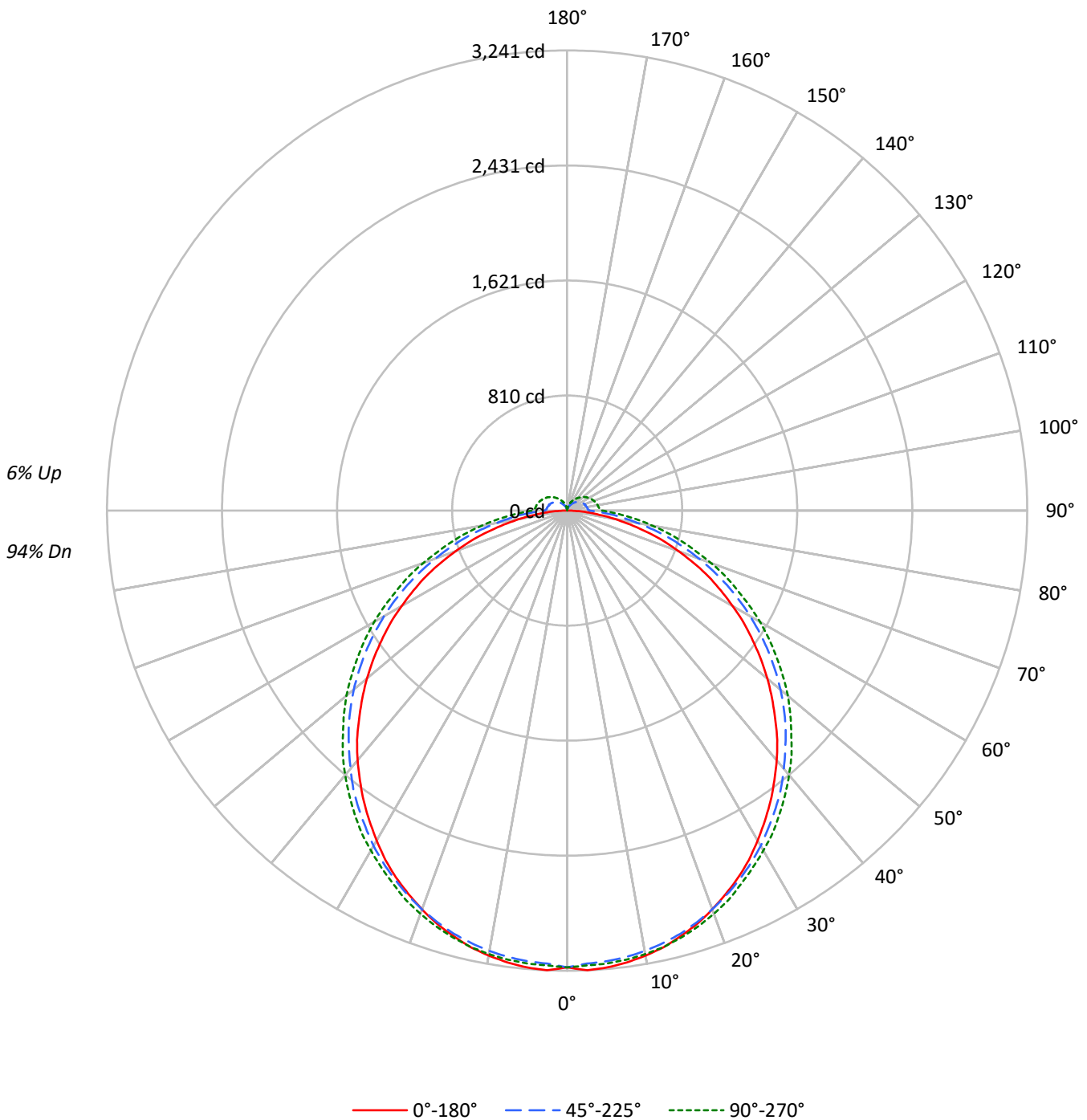
Lumens per Lamp: N/A  
Luminaire Lumens: 10224.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Direct

Input Watts (W): 79.4  
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: P567202

CATALOG NUMBER: 8SNX-114SL-FDL-UNV-L830-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P567202

CATALOG NUMBER: 8SNX-114SL-FDL-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	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°	17315	17315	17315
5°	17442	17034	17054
10°	17379	16855	16840
15°	17256	16647	16600
20°	17088	16395	16317
25°	16893	16117	15982
30°	16625	15834	15673
35°	16356	15501	15350
40°	16059	15133	14987
45°	15683	14769	14564
50°	15322	14354	14177
55°	14873	13839	13640
60°	14369	13250	13111
65°	13841	12547	12383
70°	12920	11661	11628
75°	11818	10619	10724
80°	10193	9234	9721
85°	8229	8049	8543



TEST NUMBER: P567202

CATALOG NUMBER: 8SNX-114SL-FDL-UNV-L830-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.1	3.0
10°-20°	875.5	8.6
20°-30°	1326.9	13.0
30°-40°	1601.8	15.7
40°-50°	1672.6	16.4
50°-60°	1536.6	15.0
60°-70°	1215.1	11.9
70°-80°	769.0	7.5
80°-90°	330.6	3.2
90°-100°	145.5	1.4
100°-110°	130.2	1.3
110°-120°	110.0	1.1
120°-130°	85.7	0.8
130°-140°	59.4	0.6
140°-150°	35.6	0.3
150°-160°	17.4	0.2
160°-170°	6.0	0.1
170°-180°	0.9	0.0
0°-30°	2507.5	24.5
0°-40°	4109.3	40.2
0°-60°	7318.5	71.6
0°-90°	9633.3	94.2
90°-120°	385.7	3.8
90°-150°	566.4	5.5
90°-180°	591.0	5.8
0°-180°	10224.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3217	3217	3217	3217	3217	
5°	3230	3221	3186	3214	3203	307
15°	3101	3101	3085	3118	3112	875
25°	2852	2864	2868	2906	2900	1313
35°	2498	2528	2560	2600	2609	1562
45°	2071	2122	2176	2218	2232	1600
55°	1597	1662	1731	1787	1800	1429
65°	1099	1160	1242	1300	1320	1082
75°	579	648	742	806	836	614
85°	141	217	311	378	402	156
90°	9	78	159	223	246	12
95°	2	67	145	203	224	1
105°	2	62	136	190	210	2
115°	2	52	123	172	190	2
125°	4	47	103	148	165	3
135°	4	36	83	118	132	3
145°	4	27	58	89	98	2
155°	4	18	38	56	67	2
165°	5	13	20	27	38	2
175°	5	7	9	9	5	1
180°	5	5	5	5	5	



TEST NUMBER: P567202

CATALOG NUMBER: 8SNX-114SL-FDL-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3217.3	3217.3	3217.3	3217.3	3217.3
2.5°	3240.8	3230.0	3193.8	3219.1	3206.4
5°	3230.0	3220.9	3186.5	3213.7	3202.8
7.5°	3210.1	3202.8	3172.0	3201.0	3190.1
10°	3182.9	3177.5	3150.3	3179.3	3172.0
12.5°	3148.5	3146.7	3119.5	3152.1	3146.7
15°	3101.4	3101.4	3085.1	3117.7	3112.3
17.5°	3050.7	3052.5	3039.9	3074.3	3070.6
20°	2989.2	2998.2	2989.2	3025.4	3021.8
22.5°	2922.2	2934.9	2931.2	2967.4	2969.3
25°	2851.6	2864.2	2867.9	2905.9	2900.5
27.5°	2773.7	2793.6	2800.9	2835.3	2833.5
30°	2683.2	2710.4	2726.6	2755.6	2764.7
32.5°	2590.9	2623.4	2643.4	2683.2	2694.1
35°	2498.5	2527.5	2560.1	2599.9	2609.0
37.5°	2397.1	2429.7	2473.2	2511.2	2522.1
40°	2295.7	2332.0	2373.6	2415.2	2431.5
42.5°	2190.7	2228.8	2274.0	2322.9	2339.2
45°	2071.2	2121.9	2176.2	2217.9	2232.4
47.5°	1957.2	2013.3	2071.2	2116.5	2132.8
50°	1841.3	1901.0	1962.6	2004.2	2029.6
52.5°	1720.0	1785.2	1846.7	1899.2	1915.5
55°	1596.9	1662.1	1730.9	1787.0	1799.7
57.5°	1477.4	1540.8	1609.6	1662.1	1687.4
60°	1347.0	1415.8	1490.1	1542.6	1569.7
62.5°	1220.3	1287.3	1366.9	1423.1	1444.8
65°	1099.0	1160.5	1242.0	1300.0	1319.9
67.5°	965.0	1035.6	1113.5	1180.5	1205.8
70°	832.8	899.8	988.5	1051.9	1077.3
72.5°	709.7	774.9	863.6	927.0	950.5
75°	579.4	648.2	742.3	805.7	836.5
77.5°	454.4	530.5	621.0	689.8	724.2
80°	338.6	405.6	503.3	579.4	610.1
82.5°	229.9	302.4	403.7	474.4	508.8
85°	141.2	217.3	311.4	378.4	401.9
87.5°	67.0	139.4	226.3	291.5	320.5
90°	9.1	77.9	159.3	222.7	246.2
92.5°	1.8	67.0	146.7	206.4	228.1
95°	1.8	67.0	144.8	202.8	224.5
97.5°	1.8	65.2	143.0	201.0	220.9
100°	1.8	63.4	141.2	197.3	219.1
102.5°	1.8	63.4	137.6	193.7	213.6
105°	1.8	61.6	135.8	190.1	210.0
107.5°	1.8	59.7	132.2	186.5	206.4
110°	1.8	56.1	130.4	181.1	201.0



TEST NUMBER: P567202

CATALOG NUMBER: 8SNX-114SL-FDL-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	54.3	126.7	177.4	195.5
115°	1.8	52.5	123.1	172.0	190.1
117.5°	1.8	50.7	117.7	166.6	184.7
120°	3.6	50.7	114.1	161.1	177.4
122.5°	3.6	48.9	108.6	153.9	170.2
125°	3.6	47.1	103.2	148.5	164.8
127.5°	3.6	45.3	97.8	141.2	155.7
130°	3.6	41.6	94.1	134.0	148.5
132.5°	3.6	39.8	88.7	124.9	139.4
135°	3.6	36.2	83.3	117.7	132.2
137.5°	3.6	34.4	77.9	110.4	123.1
140°	3.6	32.6	70.6	103.2	115.9
142.5°	3.6	29.0	65.2	96.0	106.8
145°	3.6	27.2	57.9	88.7	97.8
147.5°	3.6	23.5	52.5	81.5	90.5
150°	3.6	21.7	47.1	74.2	83.3
152.5°	3.6	19.9	41.6	65.2	74.2
155°	3.6	18.1	38.0	56.1	67.0
157.5°	3.6	16.3	32.6	48.9	59.7
160°	5.4	14.5	29.0	41.6	50.7
162.5°	5.4	12.7	23.5	34.4	45.3
165°	5.4	12.7	19.9	27.2	38.0
167.5°	5.4	10.9	16.3	21.7	30.8
170°	5.4	9.1	14.5	16.3	23.5
172.5°	5.4	7.2	10.9	10.9	12.7
175°	5.4	7.2	9.1	9.1	5.4
177.5°	5.4	5.4	5.4	5.4	3.6
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)