

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: P565946

Luminaire Tested: **4SNX-100HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-100HL-FDL-UNV-L930-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

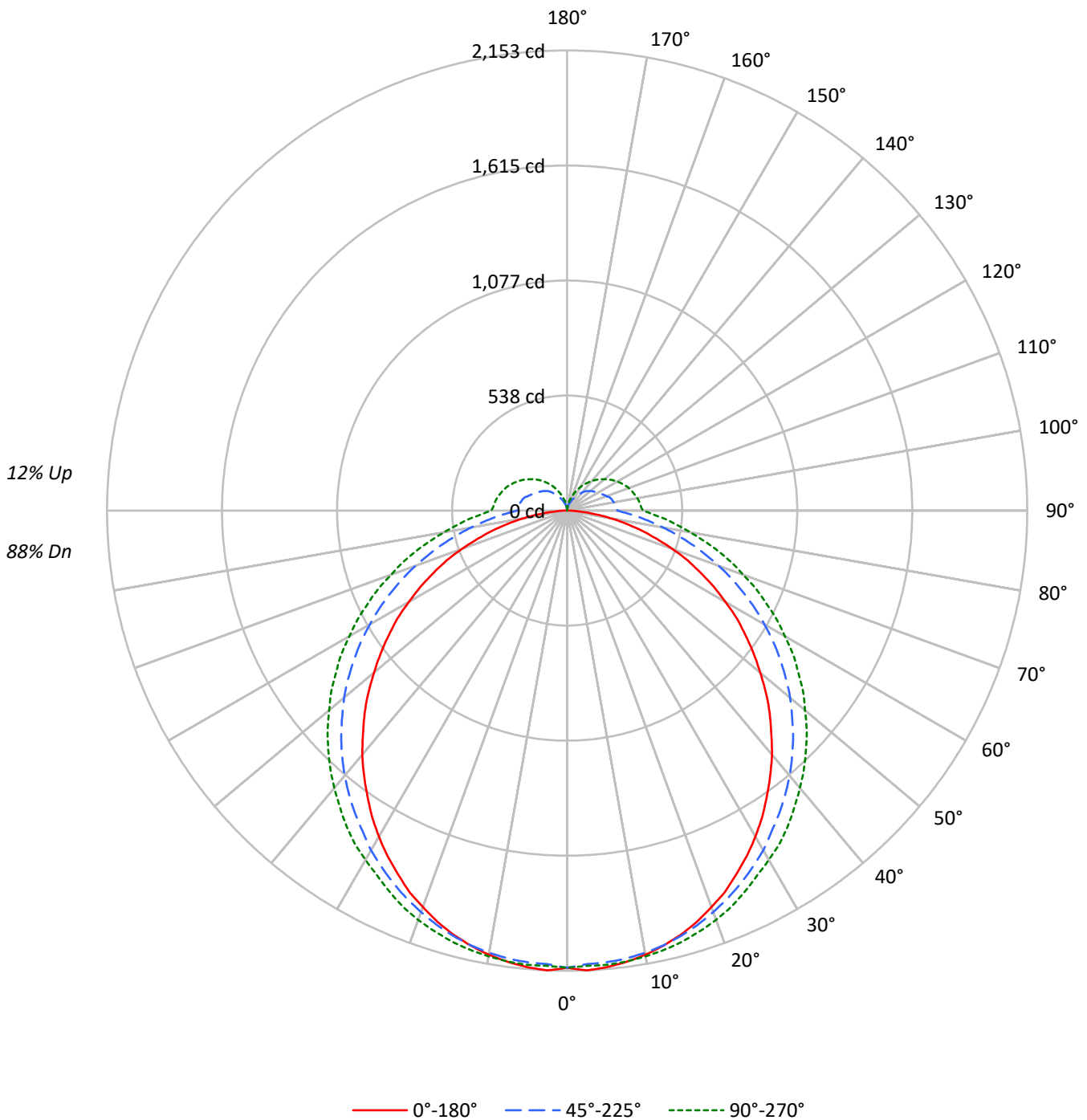
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7700.0 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 72.5  
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

TEST NUMBER: P565946  
CATALOG NUMBER: 4SNX-100HL-FDL-UNV-L930-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P565946

CATALOG NUMBER: 4SNX-100HL-FDL-UNV-L930-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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

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

	0°	45°	90°
0°	23022	23022	23022
5°	23145	22676	22721
10°	23018	22462	22486
15°	22830	22206	22266
20°	22525	21900	22015
25°	22161	21588	21680
30°	21764	21276	21394
35°	21261	20900	21195
40°	20773	20589	20887
45°	20183	20229	20629
50°	19498	19847	20301
55°	18848	19376	20007
60°	18097	18871	19649
65°	17180	18293	19298
70°	16017	17660	18899
75°	14360	16966	18763
80°	12039	16536	18613
85°	8730	16880	19620



TEST NUMBER: P565946

CATALOG NUMBER: 4SNX-100HL-FDL-UNV-L930-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.0	2.6
10°-20°	584.1	7.6
20°-30°	888.5	11.5
30°-40°	1080.4	14.0
40°-50°	1143.0	14.8
50°-60°	1071.4	13.9
60°-70°	881.4	11.4
70°-80°	609.9	7.9
80°-90°	339.1	4.4
90°-100°	223.4	2.9
100°-110°	200.3	2.6
110°-120°	165.8	2.2
120°-130°	128.2	1.7
130°-140°	90.7	1.2
140°-150°	54.7	0.7
150°-160°	26.3	0.3
160°-170°	8.6	0.1
170°-180°	1.0	0.0
0°-30°	1675.6	21.8
0°-40°	2756.0	35.8
0°-60°	4970.4	64.6
0°-90°	6800.8	88.3
90°-120°	589.6	7.7
90°-150°	863.2	11.2
90°-180°	899.0	11.7
0°-180°	7700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2139	2139	2139	2139	2139	
5°	2144	2140	2122	2139	2134	204
15°	2054	2061	2060	2087	2087	579
25°	1875	1901	1924	1966	1967	864
35°	1630	1673	1730	1785	1801	1020
45°	1340	1410	1495	1562	1581	1033
55°	1019	1110	1217	1294	1320	912
65°	690	788	911	1001	1028	684
75°	359	463	599	694	732	381
85°	79	196	332	425	462	91
90°	1	111	235	323	355	5
95°	1	106	228	312	343	1
105°	1	91	214	294	320	1
115°	3	79	181	261	290	2
125°	3	67	154	223	250	2
135°	3	53	129	183	206	2
145°	3	38	90	138	156	2
155°	4	26	55	88	103	2
165°	4	17	30	41	53	1
175°	4	7	9	9	5	0
180°	3	3	3	3	3	



TEST NUMBER: P565946

CATALOG NUMBER: 4SNX-100HL-FDL-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2138.8	2138.8	2138.8	2138.8	2138.8
2.5°	2153.3	2146.7	2124.3	2138.8	2132.2
5°	2144.0	2140.1	2121.6	2138.8	2133.5
7.5°	2129.5	2128.2	2113.7	2133.5	2128.2
10°	2109.8	2112.4	2100.5	2121.6	2117.7
12.5°	2084.7	2088.7	2083.4	2107.1	2104.5
15°	2054.4	2061.0	2059.6	2087.3	2087.3
17.5°	2017.5	2026.7	2032.0	2063.6	2063.6
20°	1973.9	1988.4	1999.0	2033.3	2038.5
22.5°	1930.4	1947.6	1963.4	1999.0	2006.9
25°	1875.0	1901.4	1923.8	1966.0	1967.3
27.5°	1821.0	1850.0	1880.3	1921.2	1925.1
30°	1761.6	1798.6	1835.5	1875.0	1886.9
32.5°	1698.4	1739.2	1780.1	1832.8	1848.7
35°	1629.8	1673.3	1730.0	1785.4	1801.2
37.5°	1561.2	1610.0	1675.9	1732.6	1747.1
40°	1491.3	1545.4	1619.2	1677.3	1694.4
42.5°	1413.5	1479.5	1558.6	1620.6	1640.3
45°	1339.7	1409.6	1495.3	1562.5	1581.0
47.5°	1261.9	1335.7	1428.0	1499.2	1520.3
50°	1178.8	1263.2	1362.1	1433.3	1453.1
52.5°	1101.0	1186.7	1290.9	1364.7	1392.4
55°	1019.3	1110.3	1217.1	1293.5	1319.9
57.5°	942.8	1029.8	1144.5	1221.0	1254.0
60°	855.8	952.0	1066.7	1149.8	1176.2
62.5°	774.0	871.6	990.3	1076.0	1106.3
65°	689.6	788.5	911.1	1000.8	1028.5
67.5°	610.5	708.1	833.4	921.7	957.3
70°	523.5	626.3	754.2	845.2	875.5
72.5°	437.8	544.6	675.1	772.7	807.0
75°	358.7	462.8	598.6	693.6	731.8
77.5°	282.2	387.7	524.8	622.4	655.3
80°	205.7	316.5	456.2	552.5	584.1
82.5°	135.8	251.9	390.3	486.6	520.8
85°	79.1	196.5	332.3	424.6	461.5
87.5°	34.3	149.0	278.2	369.2	399.5
90°	1.3	110.8	234.7	323.1	354.7
92.5°	1.3	108.1	229.4	316.5	346.8
95°	1.3	105.5	228.1	312.5	342.8
97.5°	1.3	104.2	225.5	309.9	338.9
100°	1.3	100.2	221.5	304.6	333.6
102.5°	1.3	94.9	217.6	299.3	327.0
105°	1.3	91.0	213.6	294.0	320.4
107.5°	1.3	87.0	207.0	287.5	313.8
110°	1.3	83.1	196.5	280.9	307.2



TEST NUMBER: P565946

CATALOG NUMBER: 4SNX-100HL-FDL-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	81.8	188.6	271.6	299.3
115°	2.6	79.1	180.6	261.1	290.1
117.5°	2.6	77.8	174.1	250.5	280.9
120°	2.6	73.8	167.5	241.3	270.3
122.5°	2.6	69.9	160.9	232.1	261.1
125°	2.6	67.2	154.3	222.8	250.5
127.5°	2.6	63.3	149.0	213.6	238.7
130°	2.6	60.7	142.4	203.1	228.1
132.5°	2.6	56.7	135.8	192.5	216.2
135°	2.6	52.7	129.2	183.3	205.7
137.5°	2.6	47.5	121.3	172.7	193.8
140°	2.6	43.5	110.8	162.2	182.0
142.5°	2.6	40.9	100.2	150.3	168.8
145°	2.6	38.2	89.7	138.5	155.6
147.5°	2.6	35.6	80.4	126.6	142.4
150°	2.6	31.6	71.2	116.0	129.2
152.5°	4.0	29.0	63.3	102.9	116.0
155°	4.0	26.4	55.4	88.3	102.9
157.5°	4.0	23.7	47.5	73.8	89.7
160°	4.0	21.1	40.9	60.7	76.5
162.5°	4.0	19.8	35.6	50.1	64.6
165°	4.0	17.1	30.3	40.9	52.7
167.5°	4.0	13.2	25.1	31.6	43.5
170°	4.0	10.5	19.8	22.4	33.0
172.5°	4.0	7.9	14.5	15.8	17.1
175°	4.0	6.6	9.2	9.2	5.3
177.5°	4.0	5.3	5.3	5.3	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)