

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: P566010

Luminaire Tested: **4SNX-104HL-LN-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-104HL-LN-UNV-L930-CD  
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

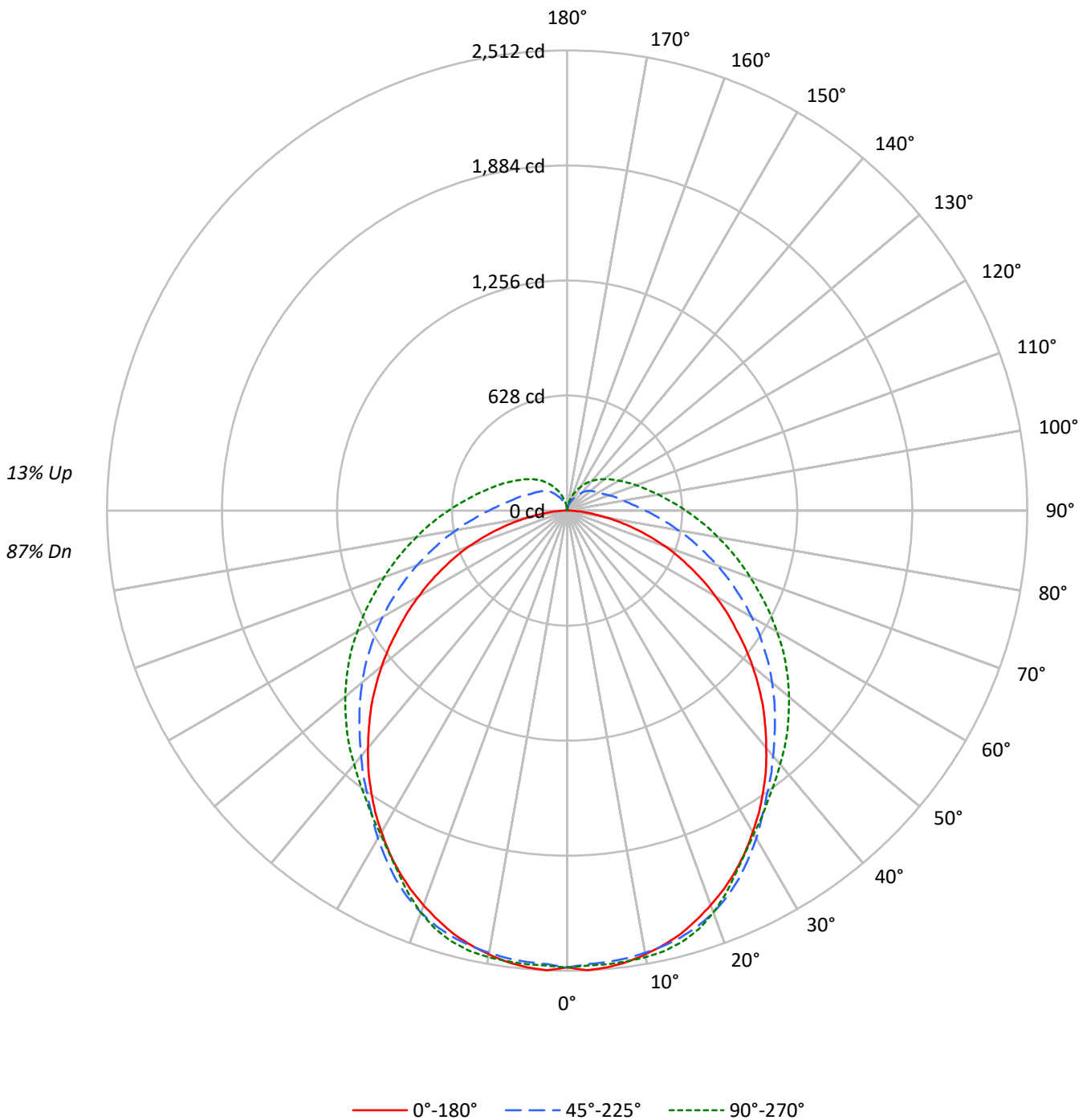
Lumens per Lamp: N/A  
Luminaire Lumens: 9002.0 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 75.5  
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: P566010

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L930-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566010

CATALOG NUMBER: 4SNX-104HL-LN-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	50	30	10	50	30	10	0		
RCR																										
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87								
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68								
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56								
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46								
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39								
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34								
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29								
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26								
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23								
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21								
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19								

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

	0°	45°	90°
0°	26842	26842	26842
5°	26946	25608	25382
10°	26693	24615	24210
15°	26372	23676	23029
20°	25865	22623	21524
25°	25318	21350	19759
30°	24598	19922	18285
35°	23831	18469	17186
40°	22958	17303	16296
45°	22102	16268	15528
50°	21084	15315	14754
55°	19894	14359	13996
60°	18754	13405	13204
65°	17484	12444	12478
70°	16031	11542	11822
75°	13788	10662	11282
80°	10865	9902	10824
85°	7278	9360	10560



TEST NUMBER: P566010

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L930-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.9	2.6
10°-20°	681.1	7.6
20°-30°	1014.2	11.3
30°-40°	1196.7	13.3
40°-50°	1248.1	13.9
50°-60°	1172.9	13.0
60°-70°	990.5	11.0
70°-80°	748.4	8.3
80°-90°	515.9	5.7
90°-100°	361.0	4.0
100°-110°	269.4	3.0
110°-120°	203.1	2.3
120°-130°	151.5	1.7
130°-140°	106.3	1.2
140°-150°	64.3	0.7
150°-160°	30.7	0.3
160°-170°	9.9	0.1
170°-180°	1.2	0.0
0°-30°	1932.2	21.5
0°-40°	3129.0	34.8
0°-60°	5549.9	61.7
0°-90°	7804.7	86.7
90°-120°	833.5	9.3
90°-150°	1155.6	12.8
90°-180°	1197.0	13.3
0°-180°	9002.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2494	2494	2494	2494	2494	
5°	2503	2498	2474	2492	2486	238
15°	2393	2404	2410	2440	2436	674
25°	2173	2218	2218	2198	2181	1000
35°	1866	1935	1898	1914	1918	1167
45°	1512	1587	1604	1670	1700	1165
55°	1123	1219	1312	1418	1456	1008
65°	748	867	1013	1146	1190	743
75°	383	531	736	890	946	408
85°	87	273	510	678	737	98
90°	2	194	426	589	647	6
95°	2	151	360	516	569	1
105°	3	108	278	403	449	3
115°	3	93	215	320	362	3
125°	5	79	182	262	296	4
135°	5	61	151	214	240	4
145°	6	44	105	163	183	3
155°	6	29	64	104	121	3
165°	8	18	34	46	61	2
175°	8	8	9	9	5	1
180°	5	5	5	5	5	



TEST NUMBER: P566010

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2493.7	2493.7	2493.7	2493.7	2493.7
2.5°	2512.0	2505.9	2478.5	2493.7	2486.1
5°	2502.9	2498.3	2473.9	2492.2	2486.1
7.5°	2486.1	2484.6	2466.3	2487.6	2481.5
10°	2460.1	2464.7	2451.0	2480.0	2475.4
12.5°	2429.6	2438.8	2434.2	2466.3	2461.7
15°	2393.0	2403.7	2409.8	2440.3	2435.7
17.5°	2344.2	2364.0	2377.7	2402.2	2394.5
20°	2292.3	2319.7	2335.0	2347.2	2335.0
22.5°	2235.8	2272.4	2281.6	2275.5	2263.3
25°	2173.2	2217.5	2217.5	2197.6	2180.9
27.5°	2103.0	2158.0	2142.7	2119.8	2106.1
30°	2026.7	2092.3	2066.4	2040.5	2037.4
32.5°	1950.4	2019.1	1980.9	1974.8	1979.4
35°	1866.5	1935.2	1898.5	1913.8	1918.4
37.5°	1782.5	1851.2	1826.8	1849.7	1863.4
40°	1691.0	1764.2	1749.0	1790.2	1808.5
42.5°	1600.9	1677.2	1675.7	1729.1	1756.6
45°	1512.4	1587.2	1604.0	1669.6	1700.1
47.5°	1416.3	1492.6	1533.8	1610.1	1640.6
50°	1321.6	1404.1	1460.5	1546.0	1581.1
52.5°	1224.0	1311.0	1388.8	1483.4	1520.0
55°	1123.2	1219.4	1312.5	1417.8	1455.9
57.5°	1033.2	1130.9	1240.8	1349.1	1393.4
60°	934.0	1042.4	1162.9	1277.4	1321.6
62.5°	844.0	955.4	1089.7	1210.2	1257.5
65°	747.8	866.9	1013.4	1146.1	1190.4
67.5°	659.3	781.4	941.6	1075.9	1124.8
70°	567.7	697.4	871.4	1013.4	1063.7
72.5°	473.1	610.5	801.2	952.3	1004.2
75°	383.1	531.1	735.6	889.7	946.2
77.5°	299.1	454.8	676.1	834.8	889.7
80°	216.7	386.1	613.5	778.3	834.8
82.5°	143.5	326.6	563.1	728.0	787.5
85°	87.0	273.2	509.7	677.6	737.1
87.5°	39.7	228.9	467.0	633.4	691.3
90°	1.5	193.8	425.8	589.1	647.1
92.5°	1.5	169.4	392.2	550.9	607.4
95°	1.5	151.1	360.2	515.8	569.3
97.5°	1.5	138.9	335.8	482.3	534.2
100°	1.5	126.7	311.3	451.7	505.2
102.5°	3.1	116.0	293.0	424.3	474.6
105°	3.1	108.4	277.8	402.9	448.7
107.5°	3.1	103.8	261.0	381.5	424.3
110°	3.1	99.2	242.7	360.2	402.9



TEST NUMBER: P566010

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	96.1	228.9	341.9	383.1
115°	3.1	93.1	215.2	320.5	361.7
117.5°	3.1	91.6	207.6	303.7	343.4
120°	4.6	87.0	198.4	288.4	326.6
122.5°	4.6	82.4	189.2	276.2	309.8
125°	4.6	79.4	181.6	262.5	296.1
127.5°	4.6	74.8	174.0	250.3	280.8
130°	4.6	70.2	167.9	238.1	267.1
132.5°	4.6	65.6	160.2	225.9	253.3
135°	4.6	61.0	151.1	213.7	239.6
137.5°	4.6	56.5	141.9	201.5	225.9
140°	4.6	51.9	129.7	189.2	212.1
142.5°	4.6	47.3	117.5	177.0	196.9
145°	6.1	44.3	105.3	163.3	183.1
147.5°	6.1	39.7	93.1	149.6	166.3
150°	6.1	36.6	83.9	135.8	151.1
152.5°	6.1	32.0	74.8	120.6	135.8
155°	6.1	29.0	64.1	103.8	120.6
157.5°	6.1	25.9	54.9	87.0	105.3
160°	6.1	24.4	47.3	71.7	90.0
162.5°	7.6	21.4	39.7	58.0	74.8
165°	7.6	18.3	33.6	45.8	61.0
167.5°	7.6	15.3	27.5	35.1	47.3
170°	7.6	12.2	21.4	24.4	36.6
172.5°	7.6	9.2	15.3	16.8	18.3
175°	7.6	7.6	9.2	9.2	4.6
177.5°	7.6	7.6	6.1	4.6	1.5
180°	4.6	4.6	4.6	4.6	4.6

(END OF REPORT)