

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: P566442

Luminaire Tested: **4SNX-45SL-LN-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-45SL-LN-UNV-L930-CD  
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

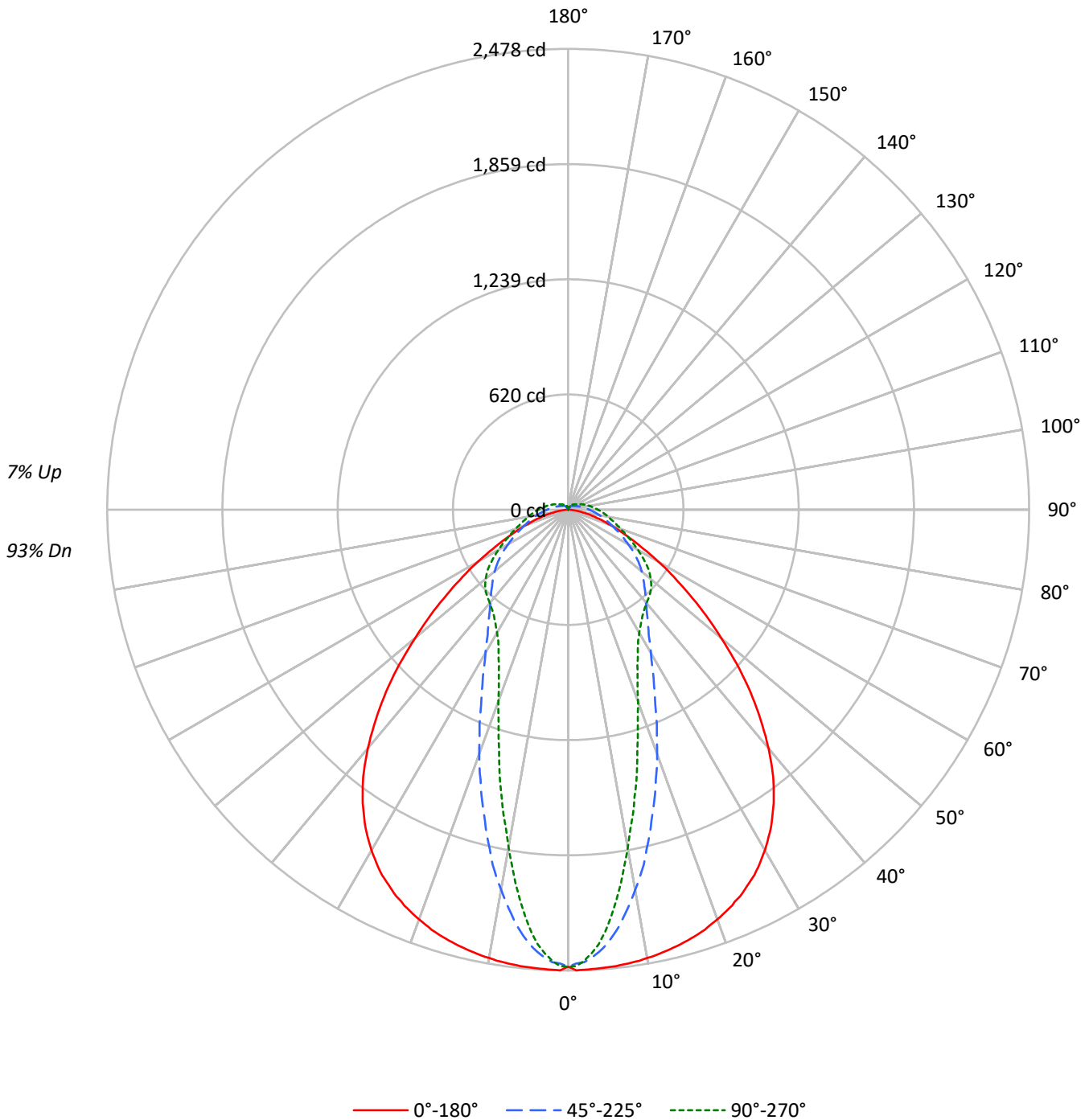
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3917.0 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 29.8  
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: P566442  
CATALOG NUMBER: 4SNX-45SL-LN-UNV-L930-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566442

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**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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28

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

	0°	45°	90°
0°	26450	26450	26450
5°	26587	24310	23264
10°	26551	20843	18049
15°	26538	17002	13528
20°	26452	13544	10124
25°	26212	10614	8034
30°	25663	8589	6854
35°	24586	7269	6234
40°	22742	6418	5901
45°	20219	5871	5718
50°	17128	5404	5402
55°	14071	4896	4934
60°	11252	4307	4327
65°	8735	3781	3765
70°	6783	3344	3331
75°	5248	3005	3036
80°	3705	2750	2821
85°	2058	2564	2706



TEST NUMBER: P566442

CATALOG NUMBER: 4SNX-45SL-LN-UNV-L930-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.6	5.6
10°-20°	510.1	13.0
20°-30°	605.5	15.5
30°-40°	609.2	15.6
40°-50°	566.2	14.5
50°-60°	466.3	11.9
60°-70°	328.5	8.4
70°-80°	214.7	5.5
80°-90°	137.0	3.5
90°-100°	89.9	2.3
100°-110°	61.0	1.6
110°-120°	41.8	1.1
120°-130°	28.9	0.7
130°-140°	19.5	0.5
140°-150°	12.0	0.3
150°-160°	6.2	0.2
160°-170°	2.3	0.1
170°-180°	0.4	0.0
0°-30°	1333.1	34.0
0°-40°	1942.3	49.6
0°-60°	2974.8	75.9
0°-90°	3655.0	93.3
90°-120°	192.7	4.9
90°-150°	253.1	6.5
90°-180°	262.0	6.7
0°-180°	3917.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2457	2457	2457	2457	2457	
5°	2470	2437	2348	2303	2279	235
15°	2408	2151	1730	1513	1431	680
25°	2250	1663	1102	926	887	1035
35°	1926	1125	747	700	696	1198
45°	1384	741	579	610	626	1062
55°	794	486	448	497	513	717
65°	374	294	308	347	359	379
75°	146	152	207	244	255	158
85°	25	70	140	181	189	31
90°	0	47	113	154	160	1
95°	0	35	94	129	136	0
105°	0	25	64	90	98	0
115°	2	20	45	66	70	2
125°	2	16	37	47	51	2
135°	2	14	29	37	39	2
145°	2	10	20	29	31	1
155°	2	8	14	20	23	1
165°	2	4	8	10	12	1
175°	4	4	4	4	2	0
180°	2	2	2	2	2	



TEST NUMBER: P566442

CATALOG NUMBER: 4SNX-45SL-LN-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2457.3	2457.3	2457.3	2457.3	2457.3
1°	2477.8	2467.5	2440.8	2459.3	2455.2
2°	2475.7	2465.5	2434.7	2442.9	2428.5
3°	2473.7	2459.3	2412.1	2410.0	2389.5
4°	2471.6	2449.0	2383.3	2358.7	2342.3
5°	2469.6	2436.7	2348.5	2303.3	2278.7
6°	2467.5	2422.4	2303.3	2235.5	2200.6
7°	2463.4	2399.8	2256.1	2163.7	2118.5
8°	2459.3	2379.2	2196.5	2085.7	2030.3
9°	2455.2	2352.6	2137.0	2001.5	1935.8
10°	2447.0	2325.9	2075.4	1915.3	1845.5
11°	2442.9	2295.1	2015.9	1833.2	1751.1
12°	2434.7	2262.2	1952.3	1747.0	1675.1
13°	2426.5	2227.3	1874.2	1673.1	1586.8
14°	2418.2	2190.4	1806.5	1591.0	1510.9
15°	2408.0	2151.4	1730.5	1512.9	1430.8
16°	2397.7	2106.2	1662.8	1432.9	1346.7
17°	2387.5	2063.1	1599.2	1359.0	1281.0
18°	2375.1	2020.0	1525.3	1287.1	1211.2
19°	2358.7	1970.7	1465.7	1221.4	1151.6
20°	2344.3	1925.6	1398.0	1159.9	1098.3
21°	2327.9	1870.1	1330.2	1102.4	1040.8
22.5°	2303.3	1792.1	1244.0	1030.5	973.0
23°	2291.0	1769.5	1209.1	1003.8	954.6
24°	2274.5	1710.0	1151.6	962.8	913.5
25°	2249.9	1662.8	1102.4	925.8	886.8
26°	2227.3	1605.3	1053.1	893.0	854.0
27°	2204.8	1549.9	1010.0	858.1	825.2
28°	2176.0	1492.4	962.8	829.3	800.6
29°	2145.2	1439.0	923.8	804.7	782.1
30°	2114.4	1379.5	890.9	782.1	763.7
32.5°	2028.2	1248.1	806.8	739.0	726.7
35°	1925.6	1125.0	747.2	700.0	695.9
37.5°	1810.6	1012.1	693.9	669.2	673.3
40°	1675.1	909.4	648.7	646.6	654.9
42.5°	1531.4	821.1	613.8	628.2	640.5
45°	1383.6	741.1	578.9	609.7	626.1
47.5°	1229.7	671.3	548.1	587.1	605.6
50°	1073.6	603.5	515.3	560.4	578.9
52.5°	934.0	544.0	482.4	529.6	550.2
55°	794.4	486.5	447.5	496.8	513.2
57.5°	673.3	433.1	410.6	459.8	472.2
60°	560.4	381.8	373.6	418.8	433.1
62.5°	457.8	336.7	338.7	381.8	396.2
65°	373.6	293.6	307.9	346.9	359.2



TEST NUMBER: P566442

CATALOG NUMBER: 4SNX-45SL-LN-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	303.8	252.5	277.1	318.2	328.5
70°	240.2	215.5	252.5	289.5	299.7
72.5°	190.9	182.7	227.9	266.9	275.1
75°	145.8	151.9	207.3	244.3	254.6
77.5°	104.7	127.3	186.8	225.8	234.0
80°	73.9	104.7	170.4	209.4	217.6
82.5°	47.2	86.2	154.0	195.0	203.2
85°	24.6	69.8	139.6	180.7	188.9
87.5°	10.3	57.5	125.2	166.3	174.5
90°	0.0	47.2	112.9	154.0	160.1
92.5°	0.0	41.1	102.6	141.6	147.8
95°	0.0	34.9	94.4	129.3	135.5
97.5°	0.0	32.8	84.2	119.1	125.2
100°	0.0	28.7	76.0	108.8	117.0
102.5°	0.0	26.7	69.8	98.5	106.7
105°	0.0	24.6	63.6	90.3	98.5
107.5°	0.0	22.6	59.5	84.2	90.3
110°	0.0	22.6	53.4	78.0	84.2
112.5°	2.1	20.5	49.3	69.8	76.0
115°	2.1	20.5	45.2	65.7	69.8
117.5°	2.1	20.5	43.1	59.5	63.6
120°	2.1	18.5	41.1	55.4	59.5
122.5°	2.1	18.5	39.0	51.3	53.4
125°	2.1	16.4	37.0	47.2	51.3
127.5°	2.1	16.4	34.9	45.2	47.2
130°	2.1	16.4	32.8	41.1	45.2
132.5°	2.1	14.4	30.8	39.0	41.1
135°	2.1	14.4	28.7	37.0	39.0
137.5°	2.1	12.3	26.7	34.9	37.0
140°	2.1	12.3	24.6	32.8	34.9
142.5°	2.1	10.3	22.6	30.8	32.8
145°	2.1	10.3	20.5	28.7	30.8
147.5°	2.1	10.3	18.5	26.7	28.7
150°	2.1	8.2	16.4	24.6	26.7
152.5°	2.1	8.2	14.4	22.6	24.6
155°	2.1	8.2	14.4	20.5	22.6
157.5°	2.1	6.2	12.3	16.4	20.5
160°	2.1	6.2	10.3	14.4	18.5
162.5°	2.1	6.2	10.3	12.3	14.4
165°	2.1	4.1	8.2	10.3	12.3
167.5°	2.1	4.1	6.2	8.2	10.3
170°	2.1	4.1	6.2	6.2	8.2
172.5°	2.1	4.1	4.1	4.1	4.1
175°	4.1	4.1	4.1	4.1	2.1
177.5°	4.1	4.1	4.1	2.1	2.1



TEST NUMBER: P566442

CATALOG NUMBER: 4SNX-45SL-LN-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)