

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: P566427

Luminaire Tested: **4SNX-45SL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566427  
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: 4SNX-45SL-FDL-UNV-L935-CD  
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

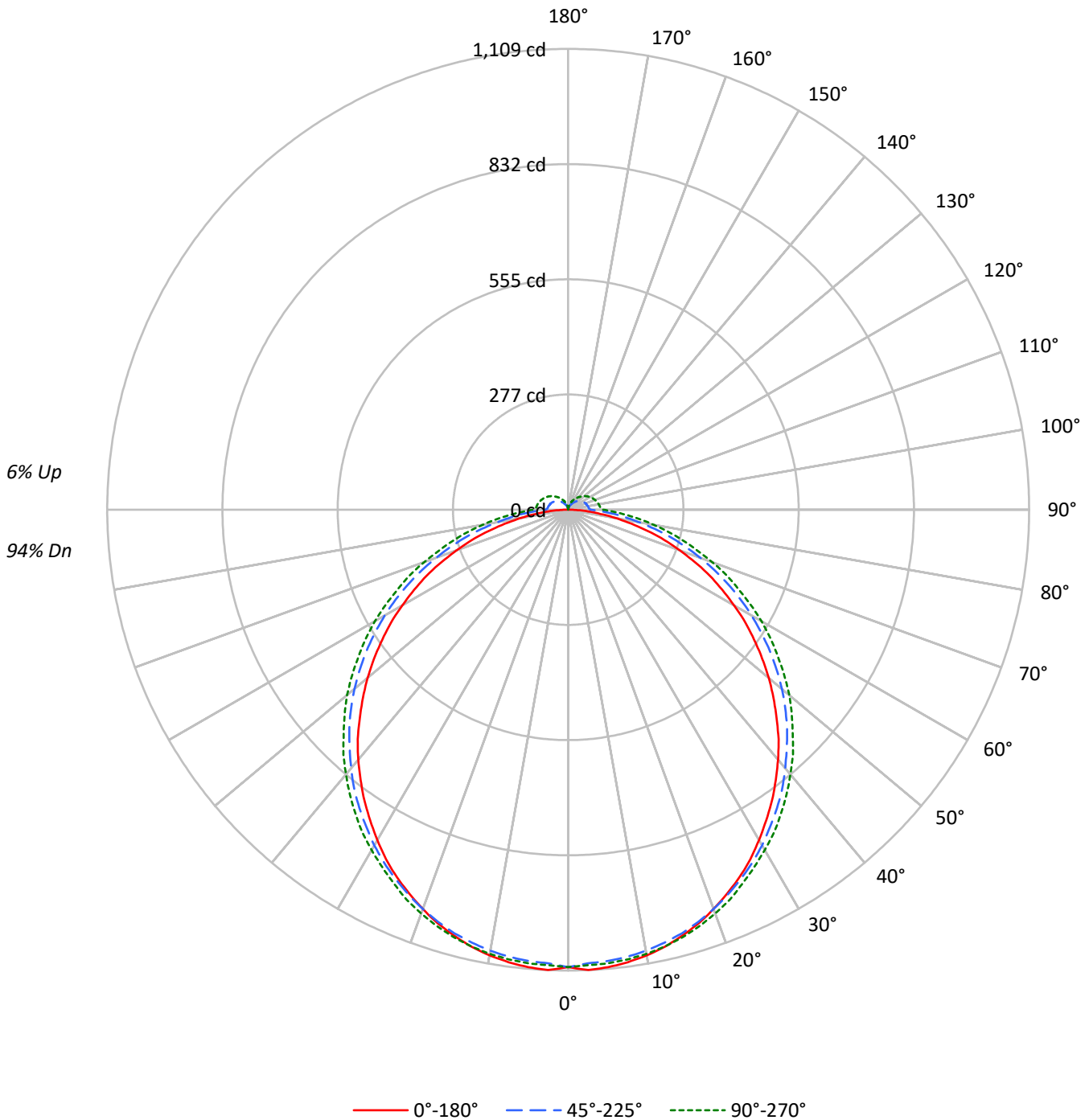
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3498.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Direct

Input Watts (W): 29.8  
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

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### Luminous Intensity Polar Plot





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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	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°	11849	11849	11849
5°	11930	11652	11670
10°	11881	11526	11524
15°	11792	11380	11358
20°	11670	11204	11166
25°	11531	11010	10936
30°	11342	10813	10725
35°	11151	10582	10503
40°	10942	10326	10255
45°	10675	10073	9966
50°	10420	9785	9701
55°	10104	9427	9333
60°	9746	9019	8972
65°	9367	8531	8473
70°	8717	7919	7957
75°	7934	7199	7338
80°	6778	6242	6654
85°	5330	5410	5846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.4	3.0
10°-20°	299.6	8.6
20°-30°	454.0	13.0
30°-40°	548.0	15.7
40°-50°	572.3	16.4
50°-60°	525.7	15.0
60°-70°	415.8	11.9
70°-80°	263.1	7.5
80°-90°	113.1	3.2
90°-100°	49.8	1.4
100°-110°	44.6	1.3
110°-120°	37.6	1.1
120°-130°	29.3	0.8
130°-140°	20.3	0.6
140°-150°	12.2	0.3
150°-160°	5.9	0.2
160°-170°	2.1	0.1
170°-180°	0.3	0.0
0°-30°	857.9	24.5
0°-40°	1405.9	40.2
0°-60°	2503.9	71.6
0°-90°	3295.9	94.2
90°-120°	132.0	3.8
90°-150°	193.8	5.5
90°-180°	202.0	5.8
0°-180°	3498.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1105	1102	1090	1100	1096	105
15°	1061	1061	1056	1067	1065	299
25°	976	980	981	994	992	449
35°	855	865	876	890	893	534
45°	709	726	745	759	764	547
55°	546	569	592	611	616	489
65°	376	397	425	445	452	370
75°	198	222	254	276	286	210
85°	48	74	106	130	138	53
90°	3	27	54	76	84	4
95°	1	23	50	69	77	0
105°	1	21	46	65	72	1
115°	1	18	42	59	65	1
125°	1	16	35	51	56	1
135°	1	12	28	40	45	1
145°	1	9	20	30	34	1
155°	1	6	13	19	23	1
165°	2	4	7	9	13	1
175°	2	2	3	3	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1100.8	1100.8	1100.8	1100.8	1100.8
2.5°	1108.8	1105.1	1092.7	1101.4	1097.0
5°	1105.1	1102.0	1090.2	1099.5	1095.8
7.5°	1098.3	1095.8	1085.3	1095.2	1091.5
10°	1089.0	1087.1	1077.8	1087.7	1085.3
12.5°	1077.2	1076.6	1067.3	1078.5	1076.6
15°	1061.1	1061.1	1055.5	1066.7	1064.8
17.5°	1043.8	1044.4	1040.0	1051.8	1050.6
20°	1022.7	1025.8	1022.7	1035.1	1033.9
22.5°	999.8	1004.1	1002.9	1015.3	1015.9
25°	975.6	980.0	981.2	994.2	992.4
27.5°	949.0	955.8	958.3	970.1	969.4
30°	918.0	927.3	932.9	942.8	945.9
32.5°	886.4	897.6	904.4	918.0	921.7
35°	854.8	864.7	875.9	889.5	892.6
37.5°	820.1	831.3	846.2	859.2	862.9
40°	785.5	797.8	812.1	826.3	831.9
42.5°	749.5	762.5	778.0	794.7	800.3
45°	708.6	726.0	744.6	758.8	763.8
47.5°	669.6	688.8	708.6	724.1	729.7
50°	630.0	650.4	671.5	685.7	694.4
52.5°	588.5	610.8	631.8	649.8	655.4
55°	546.4	568.7	592.2	611.4	615.7
57.5°	505.5	527.1	550.7	568.7	577.3
60°	460.9	484.4	509.8	527.8	537.1
62.5°	417.5	440.4	467.7	486.9	494.3
65°	376.0	397.1	424.9	444.8	451.6
67.5°	330.2	354.3	381.0	403.9	412.6
70°	284.9	307.9	338.2	359.9	368.6
72.5°	242.8	265.1	295.5	317.2	325.2
75°	198.2	221.8	254.0	275.7	286.2
77.5°	155.5	181.5	212.5	236.0	247.8
80°	115.8	138.8	172.2	198.2	208.8
82.5°	78.7	103.4	138.1	162.3	174.1
85°	48.3	74.3	106.5	129.5	137.5
87.5°	22.9	47.7	77.4	99.7	109.6
90°	3.1	26.6	54.5	76.2	84.2
92.5°	0.6	22.9	50.2	70.6	78.1
95°	0.6	22.9	49.6	69.4	76.8
97.5°	0.6	22.3	48.9	68.8	75.6
100°	0.6	21.7	48.3	67.5	75.0
102.5°	0.6	21.7	47.1	66.3	73.1
105°	0.6	21.1	46.5	65.0	71.9
107.5°	0.6	20.4	45.2	63.8	70.6
110°	0.6	19.2	44.6	61.9	68.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	18.6	43.4	60.7	66.9
115°	0.6	18.0	42.1	58.8	65.0
117.5°	0.6	17.3	40.3	57.0	63.2
120°	1.2	17.3	39.0	55.1	60.7
122.5°	1.2	16.7	37.2	52.7	58.2
125°	1.2	16.1	35.3	50.8	56.4
127.5°	1.2	15.5	33.5	48.3	53.3
130°	1.2	14.2	32.2	45.8	50.8
132.5°	1.2	13.6	30.4	42.7	47.7
135°	1.2	12.4	28.5	40.3	45.2
137.5°	1.2	11.8	26.6	37.8	42.1
140°	1.2	11.2	24.2	35.3	39.6
142.5°	1.2	9.9	22.3	32.8	36.5
145°	1.2	9.3	19.8	30.4	33.5
147.5°	1.2	8.1	18.0	27.9	31.0
150°	1.2	7.4	16.1	25.4	28.5
152.5°	1.2	6.8	14.2	22.3	25.4
155°	1.2	6.2	13.0	19.2	22.9
157.5°	1.2	5.6	11.2	16.7	20.4
160°	1.9	5.0	9.9	14.2	17.3
162.5°	1.9	4.3	8.1	11.8	15.5
165°	1.9	4.3	6.8	9.3	13.0
167.5°	1.9	3.7	5.6	7.4	10.5
170°	1.9	3.1	5.0	5.6	8.1
172.5°	1.9	2.5	3.7	3.7	4.3
175°	1.9	2.5	3.1	3.1	1.9
177.5°	1.9	1.9	1.9	1.9	1.2
180°	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)