

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: P566435

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566435  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-45SL-LC-UNV-L935-CD  
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

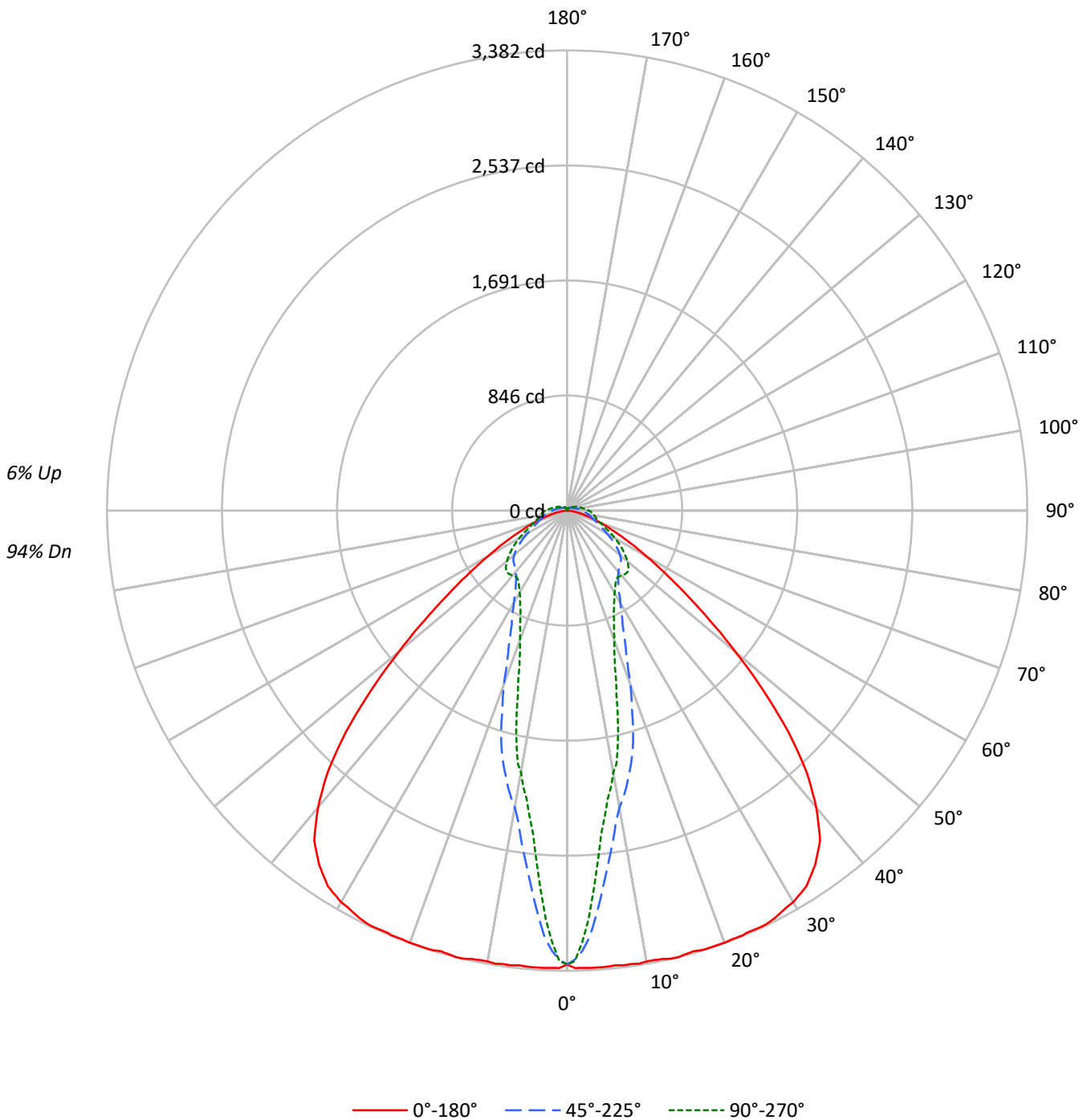
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4112.0 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
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 (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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

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

	0°	45°	90°
0°	35907	35907	35907
5°	36231	29492	26399
10°	36515	22264	19106
15°	37181	18199	13229
20°	38140	13169	9343
25°	39330	9434	7350
30°	40334	7537	6260
35°	40574	6376	5607
40°	38681	5795	5621
45°	33567	5600	5774
50°	25752	5326	5388
55°	18662	4657	4781
60°	13539	3887	4042
65°	9855	3286	3314
70°	7260	2903	2857
75°	5158	2687	2664
80°	3379	2516	2623
85°	1590	2400	2626



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.3	6.4
10°-20°	569.7	13.9
20°-30°	652.1	15.9
30°-40°	653.3	15.9
40°-50°	618.4	15.0
50°-60°	474.3	11.5
60°-70°	305.7	7.4
70°-80°	194.9	4.7
80°-90°	129.4	3.1
90°-100°	87.0	2.1
100°-110°	57.3	1.4
110°-120°	39.9	1.0
120°-130°	27.8	0.7
130°-140°	19.3	0.5
140°-150°	11.8	0.3
150°-160°	6.0	0.1
160°-170°	2.3	0.1
170°-180°	0.4	0.0
0°-30°	1484.1	36.1
0°-40°	2137.3	52.0
0°-60°	3230.0	78.6
0°-90°	3860.0	93.9
90°-120°	184.2	4.5
90°-150°	243.2	5.9
90°-180°	252.0	6.1
0°-180°	4112.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3336	3336	3336	3336	3336	
5°	3365	3180	2849	2657	2586	321
15°	3374	2430	1852	1522	1399	957
25°	3376	1720	980	851	811	1556
35°	3178	957	655	634	626	1972
45°	2297	605	552	611	632	1746
55°	1054	432	426	478	497	969
65°	422	272	268	306	316	434
75°	143	148	185	213	223	158
85°	19	67	131	171	183	26
90°	0	46	110	152	158	1
95°	0	34	91	124	131	0
105°	0	25	59	84	91	1
115°	2	21	44	61	65	2
125°	2	19	38	44	46	2
135°	2	15	30	36	38	2
145°	2	10	21	27	30	1
155°	2	6	13	19	21	1
165°	4	4	8	10	13	1
175°	4	4	4	4	2	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3335.9	3335.9	3335.9	3335.9	3335.9
1°	3363.2	3344.3	3300.0	3312.7	3310.6
2°	3363.2	3323.2	3236.8	3211.5	3173.6
3°	3365.4	3287.4	3139.9	3057.7	3005.0
4°	3365.4	3234.7	2996.6	2859.6	2792.2
5°	3365.4	3179.9	2849.1	2657.3	2585.7
6°	3361.1	3114.6	2699.4	2497.1	2389.7
7°	3367.5	3042.9	2564.6	2347.5	2263.2
8°	3365.4	2958.6	2440.3	2233.7	2141.0
9°	3371.7	2876.5	2305.4	2126.3	2056.7
10°	3365.4	2800.6	2216.9	2025.1	1953.5
11°	3365.4	2726.8	2153.7	1959.8	1898.7
12°	3369.6	2642.6	2084.1	1867.1	1782.8
13°	3380.1	2556.2	2004.0	1765.9	1666.9
14°	3382.2	2490.8	1930.3	1637.4	1534.1
15°	3373.8	2429.7	1852.3	1521.5	1399.2
16°	3369.6	2366.5	1759.6	1411.9	1302.3
17°	3378.0	2292.7	1654.2	1300.2	1199.1
18°	3380.1	2225.3	1542.5	1215.9	1127.4
19°	3380.1	2172.6	1451.9	1137.9	1062.1
20°	3380.1	2122.0	1359.2	1078.9	1013.6
21°	3375.9	2058.8	1253.8	1017.8	963.0
22.5°	3378.0	1940.8	1133.7	946.2	901.9
23°	3371.7	1911.3	1104.2	927.2	880.9
24°	3373.8	1827.0	1041.0	889.3	845.0
25°	3375.9	1719.6	979.9	851.3	811.3
26°	3371.7	1633.2	929.3	815.5	788.1
27°	3361.1	1563.6	893.5	786.0	760.7
28°	3346.4	1470.9	855.6	760.7	737.6
29°	3331.6	1365.5	817.6	733.3	716.5
30°	3323.2	1281.2	781.8	712.3	697.5
32.5°	3272.6	1114.8	708.1	670.1	657.5
35°	3177.8	956.7	655.4	634.3	625.9
37.5°	3053.5	834.5	615.3	611.1	613.2
40°	2849.1	737.6	585.8	604.8	623.8
42.5°	2604.6	661.7	564.8	611.1	632.2
45°	2297.0	604.8	552.1	611.1	632.2
47.5°	1955.6	558.4	537.4	590.0	611.1
50°	1614.2	516.3	507.9	558.4	577.4
52.5°	1312.8	476.2	469.9	518.4	537.4
55°	1053.6	432.0	425.7	478.4	497.3
57.5°	845.0	389.9	383.5	432.0	451.0
60°	674.3	347.7	337.2	385.6	404.6
62.5°	537.4	307.7	301.3	343.5	360.3
65°	421.5	271.8	267.6	305.6	316.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	333.0	238.1	240.2	271.8	284.5
70°	257.1	206.5	219.2	248.7	257.1
72.5°	193.9	174.9	202.3	227.6	238.1
75°	143.3	147.5	185.4	212.8	223.4
77.5°	99.0	122.2	170.7	200.2	210.7
80°	67.4	99.0	155.9	189.7	202.3
82.5°	40.0	82.2	143.3	179.1	193.9
85°	19.0	67.4	130.7	170.7	183.3
87.5°	6.3	54.8	118.0	162.3	172.8
90°	0.0	46.4	109.6	151.7	158.0
92.5°	0.0	40.0	99.0	139.1	143.3
95°	0.0	33.7	90.6	124.3	130.7
97.5°	0.0	31.6	84.3	111.7	120.1
100°	0.0	29.5	75.9	101.2	109.6
102.5°	0.0	25.3	67.4	90.6	99.0
105°	0.0	25.3	59.0	84.3	90.6
107.5°	2.1	23.2	54.8	75.9	84.3
110°	2.1	23.2	48.5	71.6	78.0
112.5°	2.1	23.2	46.4	65.3	73.8
115°	2.1	21.1	44.3	61.1	65.3
117.5°	2.1	21.1	42.1	54.8	59.0
120°	2.1	19.0	40.0	50.6	52.7
122.5°	2.1	19.0	37.9	46.4	48.5
125°	2.1	19.0	37.9	44.3	46.4
127.5°	2.1	16.9	35.8	42.1	42.1
130°	2.1	16.9	33.7	40.0	40.0
132.5°	2.1	14.8	31.6	37.9	40.0
135°	2.1	14.8	29.5	35.8	37.9
137.5°	2.1	12.6	27.4	33.7	35.8
140°	2.1	12.6	25.3	31.6	33.7
142.5°	2.1	10.5	23.2	29.5	31.6
145°	2.1	10.5	21.1	27.4	29.5
147.5°	2.1	10.5	19.0	25.3	27.4
150°	2.1	8.4	16.9	23.2	25.3
152.5°	2.1	8.4	14.8	21.1	23.2
155°	2.1	6.3	12.6	19.0	21.1
157.5°	2.1	6.3	12.6	16.9	19.0
160°	4.2	6.3	10.5	14.8	16.9
162.5°	2.1	4.2	10.5	12.6	14.8
165°	4.2	4.2	8.4	10.5	12.6
167.5°	4.2	4.2	6.3	8.4	10.5
170°	4.2	4.2	6.3	6.3	8.4
172.5°	4.2	4.2	4.2	6.3	4.2
175°	4.2	4.2	4.2	4.2	2.1
177.5°	4.2	4.2	4.2	4.2	2.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	4.2	4.2	4.2	4.2	4.2

(END OF REPORT)