

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: P566915

Luminaire Tested: **4SNX-87HL-LC-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-87HL-LC-UNV-L935-CD  
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

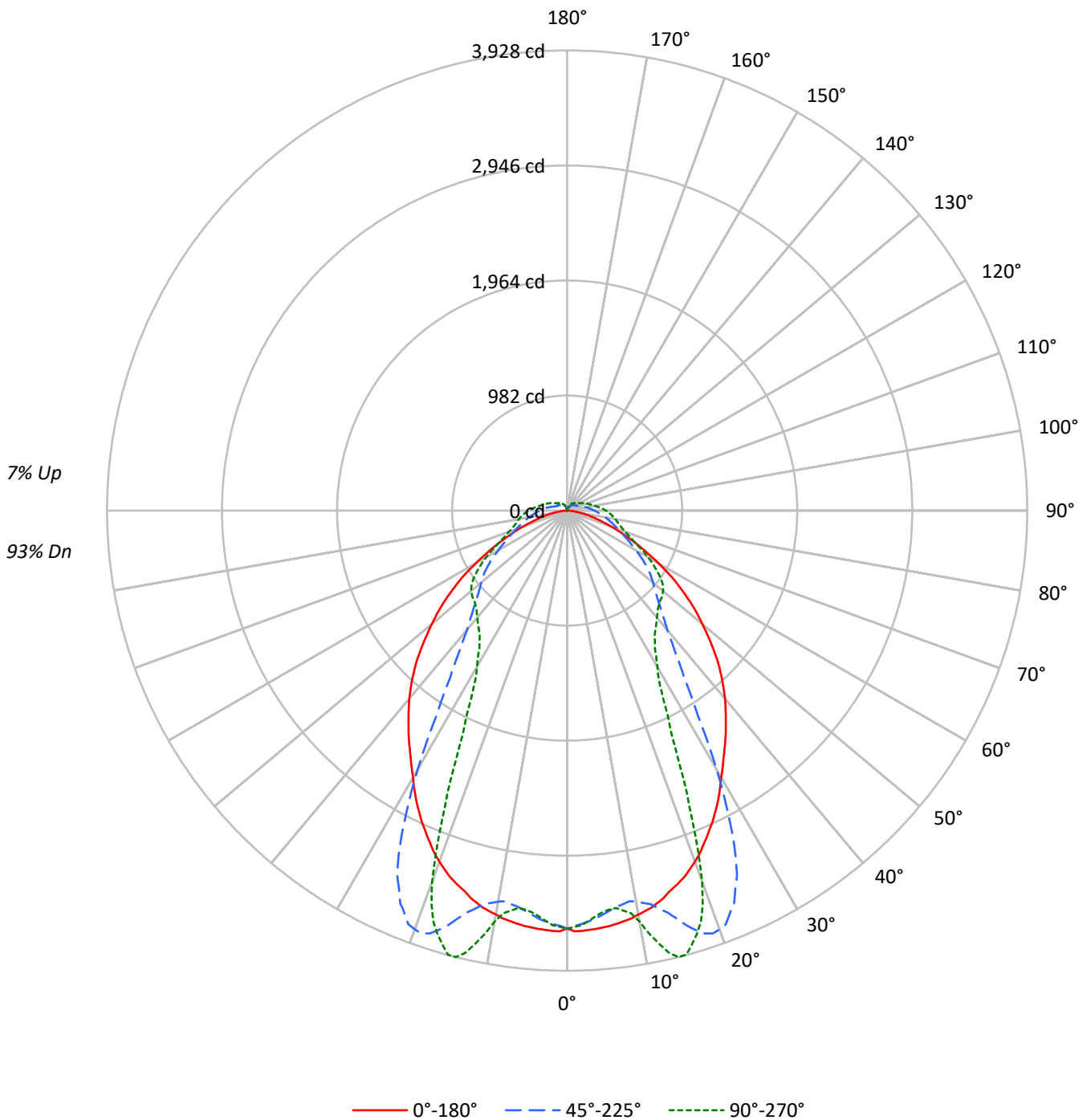
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7929.0 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 62.2  
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

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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	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	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	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	68	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	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

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

	0°	45°	90°
0°	38402	38402	38402
5°	38448	35840	35151
10°	37988	34031	34857
15°	37103	35398	37108
20°	35980	36864	31056
25°	34174	33044	19096
30°	31928	24591	13820
35°	30095	16960	11658
40°	28451	13150	10744
45°	26537	11186	10161
50°	24045	10029	9975
55°	21421	9060	9229
60°	18061	7829	7983
65°	14578	6809	6663
70°	11315	6108	5866
75°	8627	5667	5470
80°	5886	5354	5416
85°	3037	5091	5377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.0	4.2
10°-20°	1014.4	12.8
20°-30°	1365.9	17.2
30°-40°	1292.7	16.3
40°-50°	1141.0	14.4
50°-60°	926.7	11.7
60°-70°	630.3	7.9
70°-80°	405.5	5.1
80°-90°	269.7	3.4
90°-100°	185.3	2.3
100°-110°	124.4	1.6
110°-120°	87.7	1.1
120°-130°	62.7	0.8
130°-140°	44.2	0.6
140°-150°	27.5	0.3
150°-160°	13.4	0.2
160°-170°	4.7	0.1
170°-180°	0.8	0.0
0°-30°	2712.3	34.2
0°-40°	4005.0	50.5
0°-60°	6072.7	76.6
0°-90°	7378.2	93.1
90°-120°	397.5	5.0
90°-150°	531.9	6.7
90°-180°	551.0	6.9
0°-180°	7929.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3568	3568	3568	3568	3568	
5°	3571	3539	3462	3460	3443	339
15°	3367	3345	3603	3921	3925	949
25°	2933	3478	3432	2493	2108	1346
35°	2357	3307	1743	1343	1301	1475
45°	1816	2225	1103	1090	1112	1394
55°	1209	1316	828	925	960	1080
65°	624	709	554	616	636	626
75°	240	335	391	438	459	261
85°	36	143	277	351	375	48
90°	1	99	231	311	332	2
95°	1	76	195	264	282	1
105°	2	53	128	180	202	2
115°	2	46	94	134	151	3
125°	4	39	81	102	109	3
135°	5	30	67	85	90	4
145°	5	22	47	65	71	3
155°	6	13	29	44	50	3
165°	6	8	16	22	27	2
175°	7	7	7	7	6	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3567.7	3567.7	3567.7	3567.7	3567.7
1°	3591.9	3581.0	3544.7	3564.0	3554.3
2°	3590.7	3572.5	3531.3	3553.1	3541.0
3°	3584.6	3565.2	3512.0	3525.3	3507.1
4°	3578.6	3555.6	3491.4	3491.4	3470.8
5°	3571.3	3538.6	3462.3	3459.9	3443.0
6°	3562.8	3525.3	3436.9	3434.5	3424.8
7°	3550.7	3502.3	3409.1	3426.0	3418.8
8°	3536.2	3480.5	3394.5	3436.9	3447.8
9°	3522.9	3453.9	3377.6	3470.8	3479.3
10°	3501.1	3429.7	3388.5	3538.6	3564.0
11°	3482.9	3409.1	3412.7	3605.2	3681.5
12°	3464.8	3387.3	3435.7	3688.7	3781.9
13°	3434.5	3370.3	3486.5	3779.5	3875.2
14°	3407.9	3357.0	3536.2	3871.5	3928.4
15°	3366.7	3344.9	3602.8	3921.2	3924.8
16°	3338.9	3336.4	3680.2	3924.8	3857.0
17°	3307.4	3332.8	3743.2	3861.8	3781.9
18°	3272.3	3340.1	3795.3	3783.1	3691.1
19°	3232.3	3347.3	3817.0	3674.2	3555.6
20°	3188.7	3358.2	3804.9	3560.4	3369.1
21°	3145.2	3372.8	3781.9	3440.5	3124.6
22.5°	3064.0	3407.9	3673.0	3104.0	2720.2
23°	3041.0	3415.1	3647.6	2998.7	2614.9
24°	2984.1	3445.4	3531.3	2752.9	2336.5
25°	2933.3	3478.1	3432.1	2492.6	2107.7
26°	2876.4	3502.3	3282.0	2252.9	1967.2
27°	2820.7	3516.8	3111.3	2066.5	1809.9
28°	2756.6	3532.6	2926.0	1905.5	1691.2
29°	2696.0	3535.0	2743.2	1777.2	1598.0
30°	2630.6	3522.9	2550.7	1674.3	1539.9
32.5°	2487.8	3456.3	2079.8	1478.2	1394.6
35°	2357.1	3307.4	1743.3	1342.6	1301.4
37.5°	2225.1	3072.5	1507.2	1257.8	1244.5
40°	2095.6	2794.1	1329.2	1190.0	1192.4
42.5°	1958.8	2507.2	1207.0	1134.3	1145.2
45°	1815.9	2225.1	1102.9	1089.5	1112.5
47.5°	1657.3	1967.2	1020.5	1060.5	1095.6
50°	1507.2	1711.8	956.4	1032.6	1069.0
52.5°	1364.4	1502.4	898.3	985.4	1027.8
55°	1209.4	1315.9	828.1	924.9	960.0
57.5°	1061.7	1147.7	754.2	849.8	881.3
60°	899.5	981.8	679.2	768.7	799.0
62.5°	753.0	840.2	615.0	687.6	711.8
65°	623.5	709.4	554.5	616.2	635.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	508.5	600.5	504.8	556.9	575.0
70°	400.7	497.6	461.2	508.5	527.8
72.5°	313.5	411.6	424.9	468.5	487.9
75°	239.7	335.3	391.0	438.2	458.8
77.5°	178.0	273.6	359.6	414.0	435.8
80°	117.4	217.9	331.7	392.2	417.7
82.5°	73.8	175.5	303.9	370.4	397.1
85°	36.3	142.9	277.2	351.1	375.3
87.5°	12.1	118.6	253.0	331.7	352.3
90°	1.2	99.3	231.2	311.1	331.7
92.5°	1.2	86.0	213.1	286.9	307.5
95°	1.2	76.3	194.9	263.9	282.1
97.5°	1.2	69.0	178.0	239.7	259.1
100°	1.2	61.7	159.8	216.7	237.3
102.5°	2.4	56.9	144.1	197.3	219.1
105°	2.4	53.3	128.3	180.4	202.2
107.5°	2.4	50.8	115.0	167.1	187.6
110°	2.4	48.4	105.3	155.0	176.7
112.5°	2.4	47.2	99.3	144.1	164.6
115°	2.4	46.0	94.4	134.4	151.3
117.5°	3.6	44.8	90.8	124.7	138.0
120°	3.6	42.4	88.4	116.2	127.1
122.5°	3.6	40.0	84.7	109.0	117.4
125°	3.6	38.7	81.1	101.7	109.0
127.5°	3.6	36.3	77.5	95.6	102.9
130°	4.8	33.9	73.8	90.8	96.8
132.5°	4.8	31.5	70.2	88.4	93.2
135°	4.8	30.3	66.6	84.7	89.6
137.5°	4.8	27.8	63.0	81.1	86.0
140°	4.8	25.4	58.1	76.3	81.1
142.5°	4.8	24.2	53.3	71.4	76.3
145°	4.8	21.8	47.2	65.4	71.4
147.5°	6.1	20.6	42.4	60.5	65.4
150°	6.1	18.2	37.5	55.7	60.5
152.5°	6.1	15.7	32.7	49.6	54.5
155°	6.1	13.3	29.1	43.6	49.6
157.5°	6.1	12.1	25.4	36.3	43.6
160°	6.1	10.9	21.8	31.5	37.5
162.5°	6.1	9.7	19.4	26.6	32.7
165°	6.1	8.5	15.7	21.8	26.6
167.5°	7.3	8.5	13.3	16.9	21.8
170°	7.3	8.5	10.9	13.3	16.9
172.5°	7.3	7.3	8.5	9.7	10.9
175°	7.3	7.3	7.3	7.3	6.1
177.5°	7.3	7.3	7.3	6.1	6.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	6.1	6.1	6.1	6.1	6.1

(END OF REPORT)