

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: P566866

Luminaire Tested: **4SNX-84HL-LC-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566866  
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-84HL-LC-UNV-L930-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

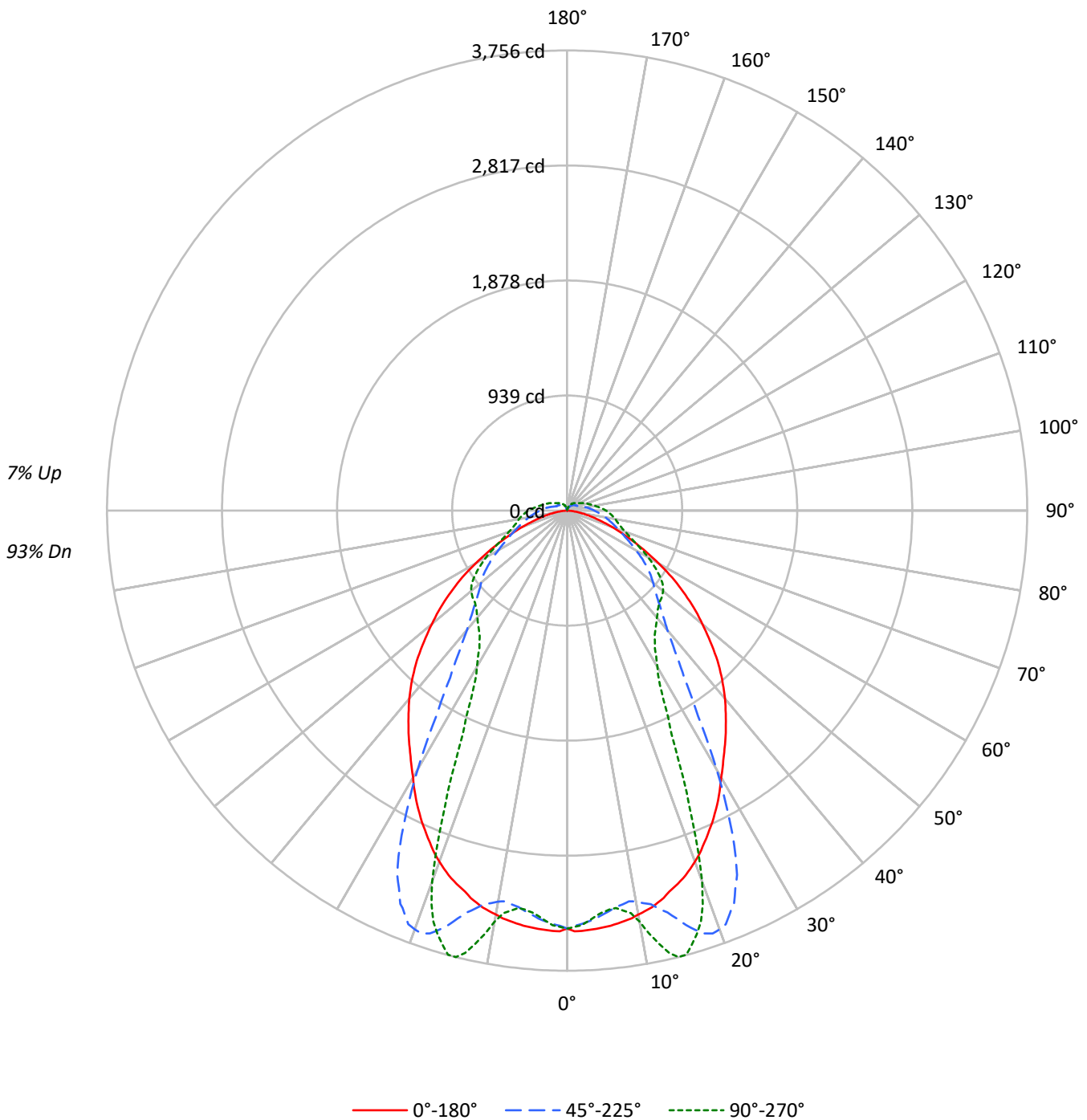
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7582.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 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): 57.9  
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: P566866  
CATALOG NUMBER: 4SNX-84HL-LC-UNV-L930-CD

### 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°	36721	36721	36721
5°	36765	34271	33613
10°	36326	32541	33332
15°	35480	33848	35483
20°	34406	35251	29698
25°	32678	31598	18260
30°	30531	23516	13215
35°	28777	16217	11148
40°	27206	12575	10275
45°	25375	10696	9717
50°	22992	9590	9539
55°	20484	8663	8825
60°	17270	7486	7633
65°	13939	6511	6371
70°	10821	5842	5609
75°	8249	5419	5231
80°	5631	5120	5178
85°	2903	4868	5142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.4	4.2
10°-20°	970.0	12.8
20°-30°	1306.1	17.2
30°-40°	1236.1	16.3
40°-50°	1091.1	14.4
50°-60°	886.2	11.7
60°-70°	602.7	7.9
70°-80°	387.8	5.1
80°-90°	257.9	3.4
90°-100°	177.2	2.3
100°-110°	119.0	1.6
110°-120°	83.9	1.1
120°-130°	59.9	0.8
130°-140°	42.3	0.6
140°-150°	26.3	0.3
150°-160°	12.8	0.2
160°-170°	4.5	0.1
170°-180°	0.8	0.0
0°-30°	2593.6	34.2
0°-40°	3829.7	50.5
0°-60°	5807.0	76.6
0°-90°	7055.3	93.1
90°-120°	380.1	5.0
90°-150°	508.6	6.7
90°-180°	527.0	7.0
0°-180°	7582.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3412	3412	3412	3412	3412	
5°	3415	3384	3311	3308	3292	324
15°	3219	3198	3445	3750	3753	908
25°	2805	3326	3282	2384	2015	1287
35°	2254	3163	1667	1284	1244	1410
45°	1736	2128	1055	1042	1064	1333
55°	1156	1258	792	884	918	1033
65°	596	678	530	589	608	599
75°	229	321	374	419	439	249
85°	35	137	265	336	359	45
90°	1	95	221	298	317	2
95°	1	73	186	252	270	1
105°	2	51	123	172	193	2
115°	2	44	90	128	145	3
125°	4	37	78	97	104	3
135°	5	29	64	81	86	4
145°	5	21	45	62	68	3
155°	6	13	28	42	48	3
165°	6	8	15	21	26	2
175°	7	7	7	7	6	1
180°	6	6	6	6	6	



TEST NUMBER: P566866

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3411.5	3411.5	3411.5	3411.5	3411.5
1°	3434.7	3424.3	3389.5	3408.1	3398.8
2°	3433.5	3416.2	3376.8	3397.6	3386.1
3°	3427.7	3409.2	3358.3	3371.0	3353.6
4°	3421.9	3400.0	3338.6	3338.6	3318.9
5°	3415.0	3383.7	3310.8	3308.5	3292.3
6°	3406.9	3371.0	3286.5	3284.2	3274.9
7°	3395.3	3349.0	3259.9	3276.1	3269.1
8°	3381.4	3328.2	3246.0	3286.5	3296.9
9°	3368.7	3302.7	3229.8	3318.9	3327.0
10°	3347.9	3279.6	3240.2	3383.7	3408.1
11°	3330.5	3259.9	3263.4	3447.4	3520.3
12°	3313.1	3239.0	3285.3	3527.3	3616.4
13°	3284.2	3222.8	3334.0	3614.1	3705.6
14°	3258.7	3210.1	3381.4	3702.1	3756.5
15°	3219.4	3198.5	3445.1	3749.6	3753.0
16°	3192.7	3190.4	3519.2	3753.0	3688.2
17°	3162.6	3186.9	3579.4	3692.8	3616.4
18°	3129.1	3193.9	3629.2	3617.6	3529.6
19°	3090.9	3200.8	3650.0	3513.4	3400.0
20°	3049.2	3211.3	3638.4	3404.6	3221.7
21°	3007.5	3225.1	3616.4	3290.0	2987.8
22.5°	2930.0	3258.7	3512.2	2968.2	2601.2
23°	2908.0	3265.7	3487.9	2867.4	2500.5
24°	2853.6	3294.6	3376.8	2632.4	2234.2
25°	2804.9	3325.9	3281.9	2383.6	2015.4
26°	2750.5	3349.0	3138.3	2154.3	1881.1
27°	2697.3	3362.9	2975.1	1976.1	1730.7
28°	2635.9	3378.0	2798.0	1822.1	1617.2
29°	2578.0	3380.3	2623.2	1699.4	1528.1
30°	2515.5	3368.7	2439.1	1601.0	1472.5
32.5°	2378.9	3305.0	1988.8	1413.5	1333.6
35°	2253.9	3162.6	1667.0	1283.8	1244.4
37.5°	2127.7	2938.1	1441.2	1202.8	1190.0
40°	2003.9	2671.8	1271.1	1137.9	1140.3
42.5°	1873.0	2397.4	1154.2	1084.7	1095.1
45°	1736.4	2127.7	1054.6	1041.9	1063.9
47.5°	1584.8	1881.1	975.9	1014.1	1047.7
50°	1441.2	1636.9	914.5	987.5	1022.2
52.5°	1304.6	1436.6	859.0	942.3	982.8
55°	1156.5	1258.3	791.8	884.4	918.0
57.5°	1015.2	1097.4	721.2	812.7	842.8
60°	860.1	938.8	649.4	735.1	764.0
62.5°	720.0	803.4	588.1	657.5	680.7
65°	596.2	678.4	530.2	589.2	607.8



TEST NUMBER: P566866

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	486.2	574.2	482.7	532.5	549.9
70°	383.2	475.8	441.1	486.2	504.7
72.5°	299.8	393.6	406.3	448.0	466.5
75°	229.2	320.7	373.9	419.1	438.7
77.5°	170.2	261.6	343.8	395.9	416.7
80°	112.3	208.4	317.2	375.1	399.4
82.5°	70.6	167.9	290.6	354.2	379.7
85°	34.7	136.6	265.1	335.7	358.9
87.5°	11.6	113.4	241.9	317.2	336.9
90°	1.2	94.9	221.1	297.5	317.2
92.5°	1.2	82.2	203.7	274.4	294.0
95°	1.2	72.9	186.4	252.4	269.7
97.5°	1.2	66.0	170.2	229.2	247.7
100°	1.2	59.0	152.8	207.2	226.9
102.5°	2.3	54.4	137.8	188.7	209.5
105°	2.3	50.9	122.7	172.5	193.3
107.5°	2.3	48.6	110.0	159.8	179.4
110°	2.3	46.3	100.7	148.2	169.0
112.5°	2.3	45.1	94.9	137.8	157.4
115°	2.3	44.0	90.3	128.5	144.7
117.5°	3.5	42.8	86.8	119.2	132.0
120°	3.5	40.5	84.5	111.1	121.6
122.5°	3.5	38.2	81.0	104.2	112.3
125°	3.5	37.0	77.6	97.2	104.2
127.5°	3.5	34.7	74.1	91.5	98.4
130°	4.6	32.4	70.6	86.8	92.6
132.5°	4.6	30.1	67.1	84.5	89.1
135°	4.6	28.9	63.7	81.0	85.7
137.5°	4.6	26.6	60.2	77.6	82.2
140°	4.6	24.3	55.6	72.9	77.6
142.5°	4.6	23.2	50.9	68.3	72.9
145°	4.6	20.8	45.1	62.5	68.3
147.5°	5.8	19.7	40.5	57.9	62.5
150°	5.8	17.4	35.9	53.3	57.9
152.5°	5.8	15.0	31.3	47.5	52.1
155°	5.8	12.7	27.8	41.7	47.5
157.5°	5.8	11.6	24.3	34.7	41.7
160°	5.8	10.4	20.8	30.1	35.9
162.5°	5.8	9.3	18.5	25.5	31.3
165°	5.8	8.1	15.0	20.8	25.5
167.5°	6.9	8.1	12.7	16.2	20.8
170°	6.9	8.1	10.4	12.7	16.2
172.5°	6.9	6.9	8.1	9.3	10.4
175°	6.9	6.9	6.9	6.9	5.8
177.5°	6.9	6.9	6.9	5.8	5.8



TEST NUMBER: P566866

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	5.8	5.8	5.8	5.8	5.8

(END OF REPORT)