

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: P566867

Luminaire Tested: **4SNX-84HL-LC-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566867  
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-L935-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

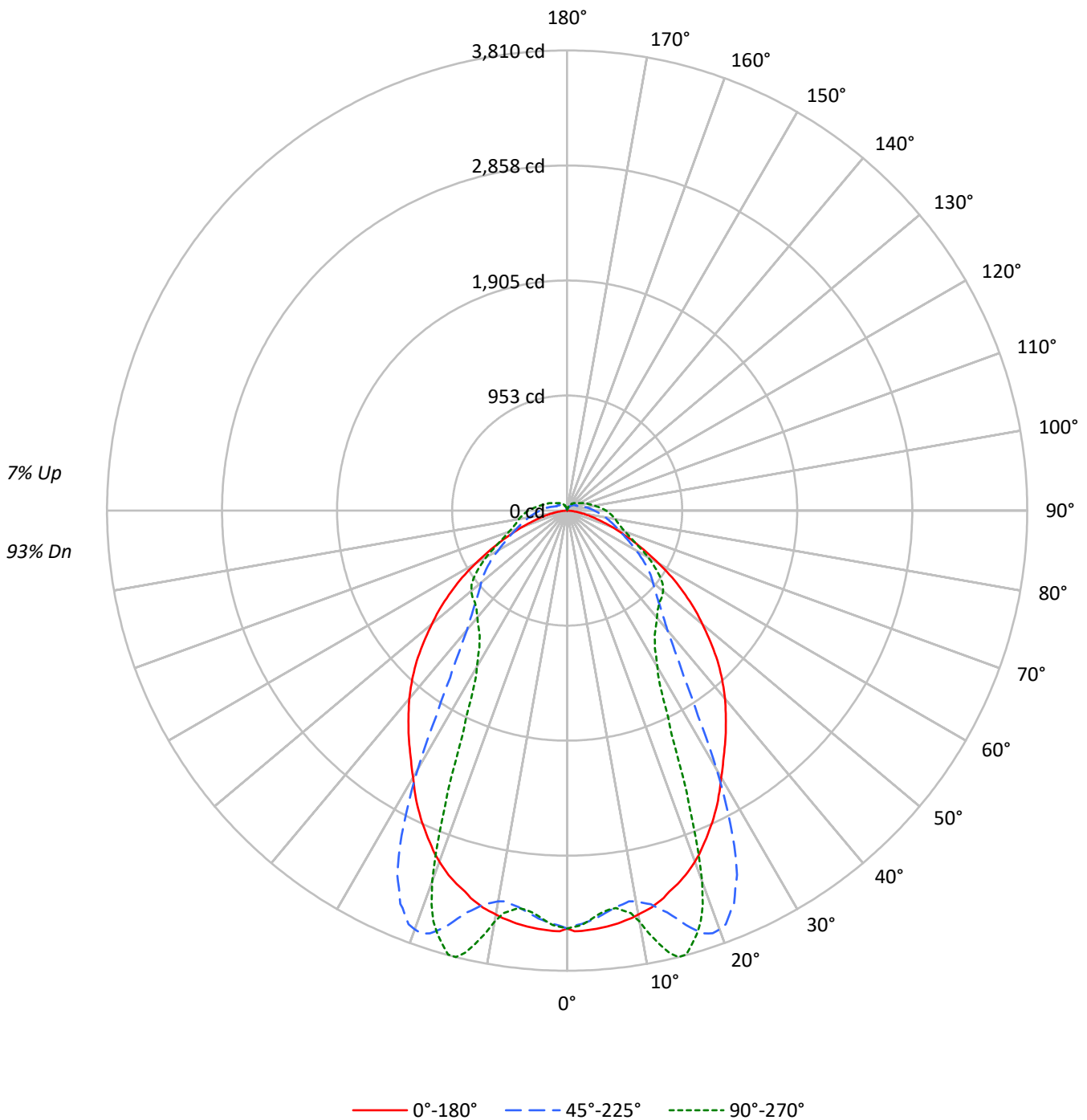
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7690.0 lumens  
Efficiency: N/A  
Efficacy: 132.8 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 (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	
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°	37244	37244	37244
5°	37288	34760	34092
10°	36842	33005	33806
15°	35984	34331	35989
20°	34896	35752	30121
25°	33144	32048	18520
30°	30967	23851	13404
35°	29187	16448	11307
40°	27593	12754	10421
45°	25737	10848	9855
50°	23321	9727	9674
55°	20775	8786	8951
60°	17517	7593	7742
65°	14138	6603	6461
70°	10974	5924	5689
75°	8368	5496	5306
80°	5711	5192	5252
85°	2945	4938	5215



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.0	4.2
10°-20°	983.8	12.8
20°-30°	1324.7	17.2
30°-40°	1253.7	16.3
40°-50°	1106.6	14.4
50°-60°	898.8	11.7
60°-70°	611.3	7.9
70°-80°	393.3	5.1
80°-90°	261.5	3.4
90°-100°	179.8	2.3
100°-110°	120.6	1.6
110°-120°	85.1	1.1
120°-130°	60.8	0.8
130°-140°	42.9	0.6
140°-150°	26.6	0.3
150°-160°	13.0	0.2
160°-170°	4.5	0.1
170°-180°	0.8	0.0
0°-30°	2630.5	34.2
0°-40°	3884.3	50.5
0°-60°	5889.7	76.6
0°-90°	7155.8	93.1
90°-120°	385.5	5.0
90°-150°	515.8	6.7
90°-180°	534.0	6.9
0°-180°	7690.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3460	3460	3460	3460	3460	
5°	3464	3432	3358	3356	3339	329
15°	3265	3244	3494	3803	3806	921
25°	2845	3373	3329	2418	2044	1305
35°	2286	3208	1691	1302	1262	1430
45°	1761	2158	1070	1057	1079	1352
55°	1173	1276	803	897	931	1048
65°	605	688	538	598	616	607
75°	232	325	379	425	445	253
85°	35	138	269	340	364	46
90°	1	96	224	302	322	2
95°	1	74	189	256	274	1
105°	2	52	124	175	196	2
115°	2	45	92	130	147	3
125°	4	38	79	99	106	3
135°	5	29	65	82	87	4
145°	5	21	46	63	69	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3460.1	3460.1	3460.1	3460.1	3460.1
1°	3483.6	3473.0	3437.8	3456.6	3447.2
2°	3482.4	3464.8	3424.9	3446.0	3434.3
3°	3476.6	3457.8	3406.1	3419.0	3401.4
4°	3470.7	3448.4	3386.2	3386.2	3366.2
5°	3463.6	3431.9	3358.0	3355.6	3339.2
6°	3455.4	3419.0	3333.3	3331.0	3321.6
7°	3443.7	3396.7	3306.3	3322.7	3315.7
8°	3429.6	3375.6	3292.2	3333.3	3343.9
9°	3416.7	3349.8	3275.8	3366.2	3374.4
10°	3395.5	3326.3	3286.4	3431.9	3456.6
11°	3377.9	3306.3	3309.8	3496.5	3570.5
12°	3360.3	3285.2	3332.1	3577.5	3667.9
13°	3331.0	3268.7	3381.5	3665.6	3758.3
14°	3305.1	3255.8	3429.6	3754.8	3810.0
15°	3265.2	3244.1	3494.2	3803.0	3806.5
16°	3238.2	3235.9	3569.3	3806.5	3740.7
17°	3207.7	3232.3	3630.4	3745.4	3667.9
18°	3173.6	3239.4	3680.9	3669.1	3579.9
19°	3134.9	3246.4	3702.0	3563.4	3448.4
20°	3092.6	3257.0	3690.2	3453.1	3267.6
21°	3050.4	3271.1	3667.9	3336.8	3030.4
22.5°	2971.7	3305.1	3562.3	3010.4	2638.2
23°	2949.4	3312.2	3537.6	2908.3	2536.1
24°	2894.2	3341.5	3424.9	2669.9	2266.0
25°	2844.9	3373.2	3328.6	2417.5	2044.1
26°	2789.7	3396.7	3183.0	2185.0	1907.9
27°	2735.7	3410.8	3017.5	2004.2	1755.3
28°	2673.5	3426.1	2837.8	1848.1	1640.2
29°	2614.8	3428.4	2660.5	1723.6	1549.8
30°	2551.4	3416.7	2473.9	1623.8	1493.5
32.5°	2412.8	3352.1	2017.1	1433.6	1352.6
35°	2286.0	3207.7	1690.7	1302.1	1262.2
37.5°	2158.0	2979.9	1461.8	1219.9	1207.0
40°	2032.4	2709.9	1289.2	1154.2	1156.5
42.5°	1899.7	2431.6	1170.6	1100.1	1110.7
45°	1761.2	2158.0	1069.6	1056.7	1079.0
47.5°	1607.4	1907.9	989.8	1028.5	1062.6
50°	1461.8	1660.2	927.6	1001.5	1036.7
52.5°	1323.2	1457.1	871.2	955.7	996.8
55°	1172.9	1276.3	803.1	897.0	931.1
57.5°	1029.7	1113.1	731.5	824.2	854.8
60°	872.4	952.2	658.7	745.6	774.9
62.5°	730.3	814.8	596.5	666.9	690.4
65°	604.7	688.0	537.7	597.6	616.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	493.1	582.4	489.6	540.1	557.7
70°	388.6	482.6	447.3	493.1	511.9
72.5°	304.1	399.2	412.1	454.4	473.2
75°	232.5	325.2	379.2	425.0	445.0
77.5°	172.6	265.4	348.7	401.5	422.7
80°	113.9	211.3	321.7	380.4	405.1
82.5°	71.6	170.2	294.7	359.3	385.1
85°	35.2	138.5	268.9	340.5	364.0
87.5°	11.7	115.1	245.4	321.7	341.7
90°	1.2	96.3	224.3	301.7	321.7
92.5°	1.2	83.4	206.6	278.3	298.2
95°	1.2	74.0	189.0	256.0	273.6
97.5°	1.2	66.9	172.6	232.5	251.3
100°	1.2	59.9	155.0	210.2	230.1
102.5°	2.3	55.2	139.7	191.4	212.5
105°	2.3	51.7	124.5	174.9	196.1
107.5°	2.3	49.3	111.5	162.0	182.0
110°	2.3	47.0	102.1	150.3	171.4
112.5°	2.3	45.8	96.3	139.7	159.7
115°	2.3	44.6	91.6	130.3	146.8
117.5°	3.5	43.4	88.1	120.9	133.8
120°	3.5	41.1	85.7	112.7	123.3
122.5°	3.5	38.7	82.2	105.7	113.9
125°	3.5	37.6	78.7	98.6	105.7
127.5°	3.5	35.2	75.1	92.8	99.8
130°	4.7	32.9	71.6	88.1	93.9
132.5°	4.7	30.5	68.1	85.7	90.4
135°	4.7	29.4	64.6	82.2	86.9
137.5°	4.7	27.0	61.1	78.7	83.4
140°	4.7	24.7	56.4	74.0	78.7
142.5°	4.7	23.5	51.7	69.3	74.0
145°	4.7	21.1	45.8	63.4	69.3
147.5°	5.9	20.0	41.1	58.7	63.4
150°	5.9	17.6	36.4	54.0	58.7
152.5°	5.9	15.3	31.7	48.1	52.8
155°	5.9	12.9	28.2	42.3	48.1
157.5°	5.9	11.7	24.7	35.2	42.3
160°	5.9	10.6	21.1	30.5	36.4
162.5°	5.9	9.4	18.8	25.8	31.7
165°	5.9	8.2	15.3	21.1	25.8
167.5°	7.0	8.2	12.9	16.4	21.1
170°	7.0	8.2	10.6	12.9	16.4
172.5°	7.0	7.0	8.2	9.4	10.6
175°	7.0	7.0	7.0	7.0	5.9
177.5°	7.0	7.0	7.0	5.9	5.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	5.9	5.9	5.9	5.9	5.9

(END OF REPORT)