

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: P566819

Luminaire Tested: **4SNX-81HL-LC-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566819  
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-81HL-LC-UNV-L935-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

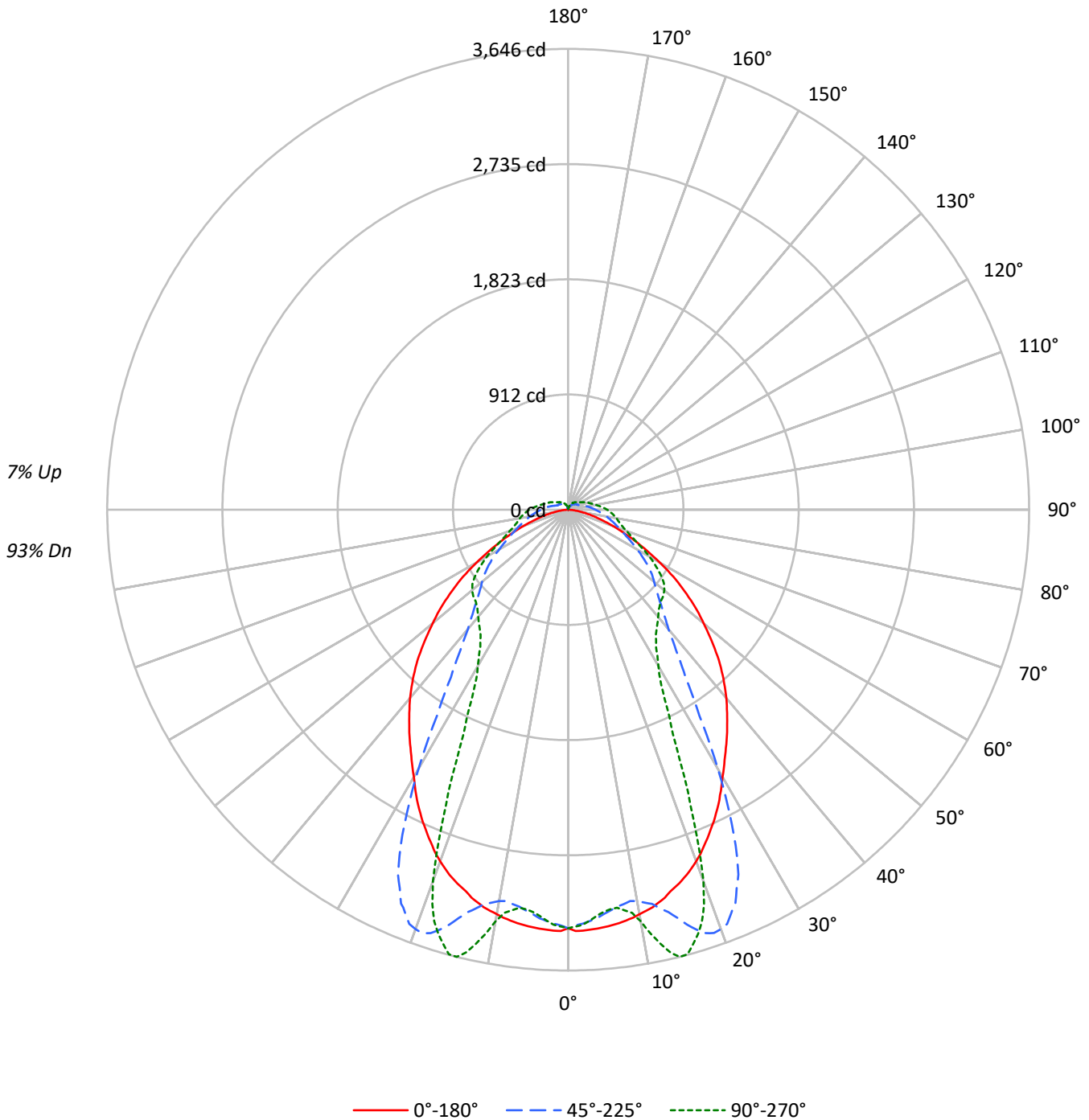
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7359.0 lumens  
Efficiency: N/A  
Efficacy: 133.6 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): 55.1  
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	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°	35641	35641	35641
5°	35684	33263	32625
10°	35257	31584	32351
15°	34436	32853	34440
20°	33394	34214	28824
25°	31717	30668	17723
30°	29633	22824	12827
35°	27931	15741	10820
40°	26405	12205	9972
45°	24630	10382	9431
50°	22317	9308	9258
55°	19882	8408	8565
60°	16762	7266	7409
65°	13528	6319	6184
70°	10502	5670	5445
75°	8008	5260	5077
80°	5465	4969	5025
85°	2819	4725	4990



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.1	4.2
10°-20°	941.5	12.8
20°-30°	1267.7	17.2
30°-40°	1199.8	16.3
40°-50°	1059.0	14.4
50°-60°	860.1	11.7
60°-70°	585.0	7.9
70°-80°	376.4	5.1
80°-90°	250.3	3.4
90°-100°	172.0	2.3
100°-110°	115.4	1.6
110°-120°	81.4	1.1
120°-130°	58.2	0.8
130°-140°	41.1	0.6
140°-150°	25.5	0.3
150°-160°	12.4	0.2
160°-170°	4.4	0.1
170°-180°	0.8	0.0
0°-30°	2517.3	34.2
0°-40°	3717.1	50.5
0°-60°	5636.2	76.6
0°-90°	6847.8	93.1
90°-120°	368.9	5.0
90°-150°	493.6	6.7
90°-180°	511.0	6.9
0°-180°	7359.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3311	3311	3311	3311	3311	
5°	3315	3284	3213	3211	3196	314
15°	3125	3104	3344	3639	3643	881
25°	2722	3228	3185	2313	1956	1249
35°	2188	3070	1618	1246	1208	1369
45°	1685	2065	1024	1011	1033	1294
55°	1122	1221	768	858	891	1002
65°	579	658	515	572	590	581
75°	222	311	363	407	426	242
85°	34	133	257	326	348	44
90°	1	92	215	289	308	2
95°	1	71	181	245	262	1
105°	2	49	119	167	188	2
115°	2	43	88	125	140	3
125°	3	36	75	94	101	3
135°	4	28	62	79	83	3
145°	4	20	44	61	66	3
155°	6	12	27	40	46	3
165°	6	8	15	20	25	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°	3311.2	3311.2	3311.2	3311.2	3311.2
1°	3333.7	3323.5	3289.8	3307.8	3298.8
2°	3332.5	3315.7	3277.5	3297.7	3286.5
3°	3326.9	3308.9	3259.5	3271.9	3255.0
4°	3321.3	3300.0	3240.4	3240.4	3221.3
5°	3314.6	3284.2	3213.4	3211.2	3195.5
6°	3306.7	3271.9	3189.8	3187.6	3178.6
7°	3295.5	3250.5	3164.0	3179.7	3173.0
8°	3282.0	3230.3	3150.5	3189.8	3200.0
9°	3269.6	3205.6	3134.8	3221.3	3229.2
10°	3249.4	3183.1	3144.9	3284.2	3307.8
11°	3232.5	3164.0	3167.4	3346.0	3416.8
12°	3215.7	3143.8	3188.7	3423.5	3510.1
13°	3187.6	3128.0	3235.9	3507.8	3596.6
14°	3162.9	3115.7	3282.0	3593.2	3646.0
15°	3124.7	3104.4	3343.8	3639.3	3642.6
16°	3098.8	3096.6	3415.7	3642.6	3579.7
17°	3069.6	3093.2	3474.1	3584.2	3510.1
18°	3037.0	3100.0	3522.4	3511.2	3425.8
19°	3000.0	3106.7	3542.6	3410.1	3300.0
20°	2959.5	3116.8	3531.4	3304.4	3126.9
21°	2919.1	3130.3	3510.1	3193.2	2900.0
22.5°	2843.8	3162.9	3408.9	2880.9	2524.7
23°	2822.4	3169.6	3385.3	2783.1	2426.9
24°	2769.6	3197.7	3277.5	2555.0	2168.5
25°	2722.4	3228.0	3185.3	2313.4	1956.2
26°	2669.6	3250.5	3046.0	2091.0	1825.8
27°	2617.9	3264.0	2887.6	1917.9	1679.8
28°	2558.4	3278.6	2715.7	1768.5	1569.6
29°	2502.2	3280.9	2546.0	1649.4	1483.1
30°	2441.5	3269.6	2367.4	1553.9	1429.2
32.5°	2309.0	3207.8	1930.3	1371.9	1294.4
35°	2187.6	3069.6	1618.0	1246.0	1207.8
37.5°	2065.1	2851.6	1398.9	1167.4	1155.0
40°	1944.9	2593.2	1233.7	1104.5	1106.7
42.5°	1818.0	2326.9	1120.2	1052.8	1062.9
45°	1685.4	2065.1	1023.6	1011.2	1032.6
47.5°	1538.2	1825.8	947.2	984.3	1016.8
50°	1398.9	1588.7	887.6	958.4	992.1
52.5°	1266.3	1394.4	833.7	914.6	953.9
55°	1122.5	1221.3	768.5	858.4	891.0
57.5°	985.4	1065.2	700.0	788.8	818.0
60°	834.8	911.2	630.3	713.5	741.6
62.5°	698.9	779.8	570.8	638.2	660.7
65°	578.6	658.4	514.6	571.9	589.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	471.9	557.3	468.5	516.8	533.7
70°	371.9	461.8	428.1	471.9	489.9
72.5°	291.0	382.0	394.4	434.8	452.8
75°	222.5	311.2	362.9	406.7	425.8
77.5°	165.2	253.9	333.7	384.3	404.5
80°	109.0	202.2	307.9	364.0	387.6
82.5°	68.5	162.9	282.0	343.8	368.5
85°	33.7	132.6	257.3	325.8	348.3
87.5°	11.2	110.1	234.8	307.9	327.0
90°	1.1	92.1	214.6	288.8	307.9
92.5°	1.1	79.8	197.7	266.3	285.4
95°	1.1	70.8	180.9	244.9	261.8
97.5°	1.1	64.0	165.2	222.5	240.4
100°	1.1	57.3	148.3	201.1	220.2
102.5°	2.2	52.8	133.7	183.1	203.4
105°	2.2	49.4	119.1	167.4	187.6
107.5°	2.2	47.2	106.7	155.1	174.2
110°	2.2	44.9	97.8	143.8	164.0
112.5°	2.2	43.8	92.1	133.7	152.8
115°	2.2	42.7	87.6	124.7	140.4
117.5°	3.4	41.6	84.3	115.7	128.1
120°	3.4	39.3	82.0	107.9	118.0
122.5°	3.4	37.1	78.7	101.1	109.0
125°	3.4	36.0	75.3	94.4	101.1
127.5°	3.4	33.7	71.9	88.8	95.5
130°	4.5	31.5	68.5	84.3	89.9
132.5°	4.5	29.2	65.2	82.0	86.5
135°	4.5	28.1	61.8	78.7	83.1
137.5°	4.5	25.8	58.4	75.3	79.8
140°	4.5	23.6	53.9	70.8	75.3
142.5°	4.5	22.5	49.4	66.3	70.8
145°	4.5	20.2	43.8	60.7	66.3
147.5°	5.6	19.1	39.3	56.2	60.7
150°	5.6	16.9	34.8	51.7	56.2
152.5°	5.6	14.6	30.3	46.1	50.6
155°	5.6	12.4	27.0	40.4	46.1
157.5°	5.6	11.2	23.6	33.7	40.4
160°	5.6	10.1	20.2	29.2	34.8
162.5°	5.6	9.0	18.0	24.7	30.3
165°	5.6	7.9	14.6	20.2	24.7
167.5°	6.7	7.9	12.4	15.7	20.2
170°	6.7	7.9	10.1	12.4	15.7
172.5°	6.7	6.7	7.9	9.0	10.1
175°	6.7	6.7	6.7	6.7	5.6
177.5°	6.7	6.7	6.7	5.6	5.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)