

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: P566820

Luminaire Tested: **4SNX-81HL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

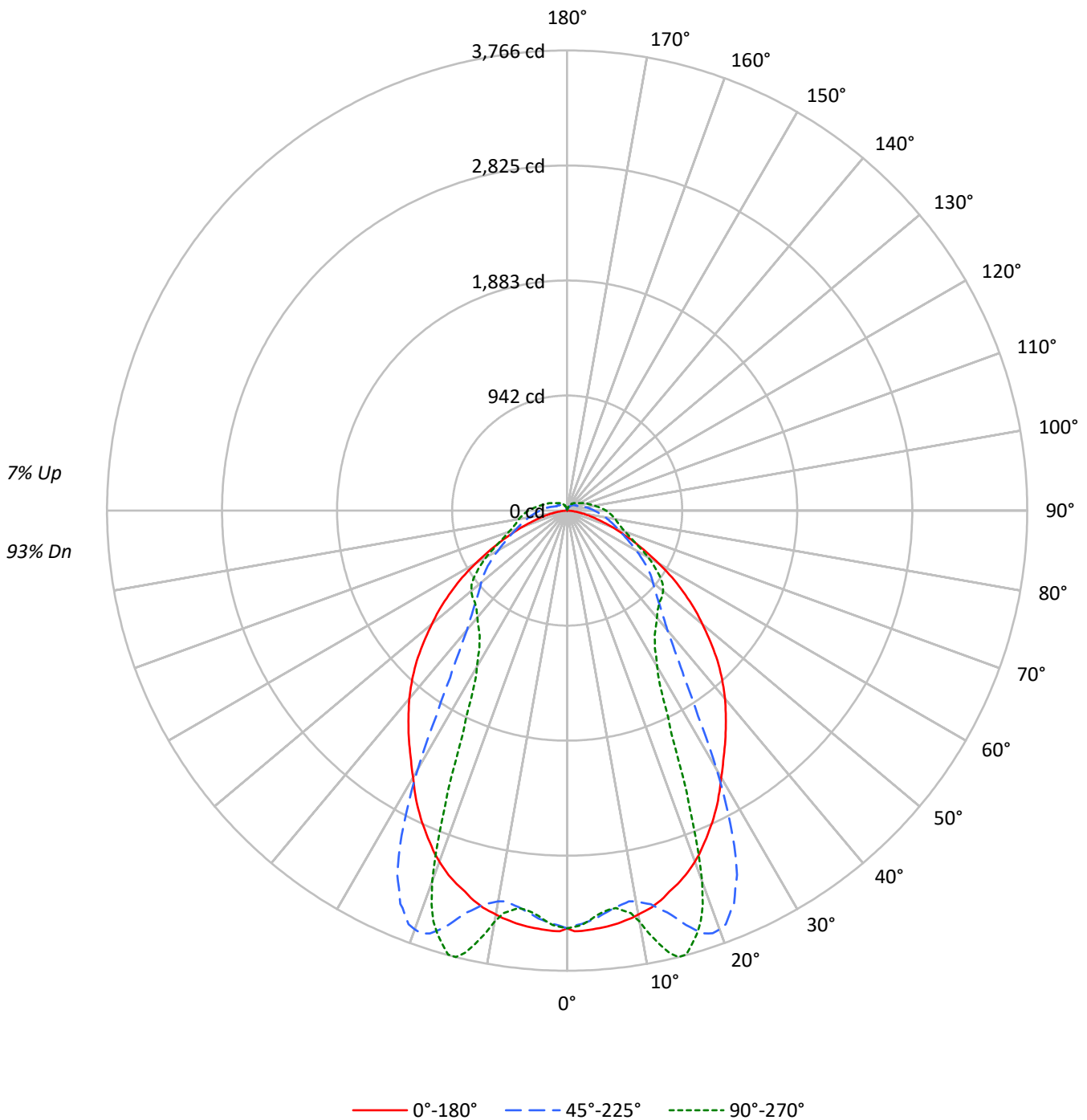
Test Method: LM-79-08  
Report Number: P566820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-81HL-LC-UNV-L940-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7601.0 lumens  
Efficiency: N/A  
Efficacy: 137.9 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): 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	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°	36814	36814	36814
5°	36858	34357	33697
10°	36416	32623	33415
15°	35568	33933	35572
20°	34492	35339	29771
25°	32761	31677	18306
30°	30607	23574	13248
35°	28849	16258	11177
40°	27274	12607	10300
45°	25439	10723	9741
50°	23051	9614	9562
55°	20536	8684	8847
60°	17314	7505	7652
65°	13974	6527	6387
70°	10847	5857	5624
75°	8271	5434	5244
80°	5646	5132	5191
85°	2911	4881	5155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.2	4.2
10°-20°	972.4	12.8
20°-30°	1309.4	17.2
30°-40°	1239.2	16.3
40°-50°	1093.8	14.4
50°-60°	888.4	11.7
60°-70°	604.2	7.9
70°-80°	388.8	5.1
80°-90°	258.5	3.4
90°-100°	177.7	2.3
100°-110°	119.3	1.6
110°-120°	84.1	1.1
120°-130°	60.1	0.8
130°-140°	42.4	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°	2600.1	34.2
0°-40°	3839.3	50.5
0°-60°	5821.5	76.6
0°-90°	7073.0	93.1
90°-120°	381.0	5.0
90°-150°	509.9	6.7
90°-180°	528.0	6.9
0°-180°	7601.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3420	3420	3420	3420	3420	
5°	3424	3392	3319	3317	3300	325
15°	3227	3206	3454	3759	3762	910
25°	2812	3334	3290	2390	2020	1290
35°	2260	3171	1671	1287	1248	1414
45°	1741	2133	1057	1044	1066	1337
55°	1159	1262	794	887	920	1035
65°	598	680	532	591	609	600
75°	230	322	375	420	440	250
85°	35	137	266	337	360	46
90°	1	95	222	298	318	2
95°	1	73	187	253	270	1
105°	2	51	123	173	194	2
115°	2	44	90	129	145	3
125°	4	37	78	98	104	3
135°	5	29	64	81	86	4
145°	5	21	45	63	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3420.1	3420.1	3420.1	3420.1	3420.1
1°	3443.3	3432.8	3398.0	3416.6	3407.3
2°	3442.1	3424.7	3385.3	3406.1	3394.5
3°	3436.3	3417.8	3366.7	3379.5	3362.0
4°	3430.5	3408.5	3347.0	3347.0	3327.2
5°	3423.6	3392.2	3319.1	3316.8	3300.5
6°	3415.4	3379.5	3294.7	3292.4	3283.1
7°	3403.8	3357.4	3268.0	3284.3	3277.3
8°	3389.9	3336.5	3254.1	3294.7	3305.2
9°	3377.1	3311.0	3237.9	3327.2	3335.4
10°	3356.2	3287.8	3248.3	3392.2	3416.6
11°	3338.8	3268.0	3271.5	3456.1	3529.2
12°	3321.4	3247.2	3293.6	3536.1	3625.5
13°	3292.4	3230.9	3342.3	3623.2	3714.8
14°	3266.9	3218.1	3389.9	3711.4	3765.9
15°	3227.4	3206.5	3453.7	3758.9	3762.4
16°	3200.7	3198.4	3528.0	3762.4	3697.4
17°	3170.6	3194.9	3588.4	3702.1	3625.5
18°	3136.9	3201.9	3638.3	3626.6	3538.4
19°	3098.6	3208.9	3659.1	3522.2	3408.5
20°	3056.8	3219.3	3647.5	3413.1	3229.7
21°	3015.1	3233.2	3625.5	3298.2	2995.3
22.5°	2937.3	3266.9	3521.0	2975.6	2607.7
23°	2915.2	3273.8	3496.7	2874.6	2506.7
24°	2860.7	3302.9	3385.3	2639.0	2239.8
25°	2812.0	3334.2	3290.1	2389.5	2020.5
26°	2757.4	3357.4	3146.2	2159.7	1885.9
27°	2704.0	3371.3	2982.6	1981.0	1735.0
28°	2642.5	3386.4	2805.0	1826.7	1621.3
29°	2584.5	3388.7	2629.8	1703.7	1531.9
30°	2521.8	3377.1	2445.2	1605.0	1476.2
32.5°	2384.9	3313.3	1993.8	1417.0	1336.9
35°	2259.5	3170.6	1671.2	1287.0	1247.6
37.5°	2133.1	2945.4	1444.9	1205.8	1193.0
40°	2008.9	2678.5	1274.3	1140.8	1143.1
42.5°	1877.7	2403.5	1157.0	1087.4	1097.9
45°	1740.8	2133.1	1057.2	1044.5	1066.5
47.5°	1588.8	1885.9	978.3	1016.6	1050.3
50°	1444.9	1641.0	916.8	989.9	1024.7
52.5°	1307.9	1440.2	861.1	944.7	985.3
55°	1159.4	1261.5	793.8	886.6	920.3
57.5°	1017.8	1100.2	723.0	814.7	844.9
60°	862.3	941.2	651.1	736.9	765.9
62.5°	721.8	805.4	589.5	659.2	682.4
65°	597.7	680.1	531.5	590.7	609.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	487.4	575.6	483.9	533.8	551.3
70°	384.1	477.0	442.2	487.4	506.0
72.5°	300.6	394.6	407.3	449.1	467.7
75°	229.8	321.5	374.9	420.1	439.8
77.5°	170.6	262.3	344.7	396.9	417.8
80°	112.6	208.9	318.0	376.0	400.4
82.5°	70.8	168.3	291.3	355.1	380.7
85°	34.8	136.9	265.8	336.6	359.8
87.5°	11.6	113.7	242.6	318.0	337.7
90°	1.2	95.2	221.7	298.3	318.0
92.5°	1.2	82.4	204.3	275.0	294.8
95°	1.2	73.1	186.8	253.0	270.4
97.5°	1.2	66.2	170.6	229.8	248.4
100°	1.2	59.2	153.2	207.7	227.5
102.5°	2.3	54.5	138.1	189.2	210.1
105°	2.3	51.1	123.0	172.9	193.8
107.5°	2.3	48.7	110.3	160.2	179.9
110°	2.3	46.4	101.0	148.5	169.4
112.5°	2.3	45.3	95.2	138.1	157.8
115°	2.3	44.1	90.5	128.8	145.1
117.5°	3.5	42.9	87.0	119.5	132.3
120°	3.5	40.6	84.7	111.4	121.9
122.5°	3.5	38.3	81.2	104.4	112.6
125°	3.5	37.1	77.8	97.5	104.4
127.5°	3.5	34.8	74.3	91.7	98.6
130°	4.6	32.5	70.8	87.0	92.8
132.5°	4.6	30.2	67.3	84.7	89.4
135°	4.6	29.0	63.8	81.2	85.9
137.5°	4.6	26.7	60.3	77.8	82.4
140°	4.6	24.4	55.7	73.1	77.8
142.5°	4.6	23.2	51.1	68.5	73.1
145°	4.6	20.9	45.3	62.7	68.5
147.5°	5.8	19.7	40.6	58.0	62.7
150°	5.8	17.4	36.0	53.4	58.0
152.5°	5.8	15.1	31.3	47.6	52.2
155°	5.8	12.8	27.9	41.8	47.6
157.5°	5.8	11.6	24.4	34.8	41.8
160°	5.8	10.4	20.9	30.2	36.0
162.5°	5.8	9.3	18.6	25.5	31.3
165°	5.8	8.1	15.1	20.9	25.5
167.5°	7.0	8.1	12.8	16.2	20.9
170°	7.0	8.1	10.4	12.8	16.2
172.5°	7.0	7.0	8.1	9.3	10.4
175°	7.0	7.0	7.0	7.0	5.8
177.5°	7.0	7.0	7.0	5.8	5.8



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)