

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: P566382

Luminaire Tested: **4SNX-41SL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566382  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-41SL-LC-UNV-L830-CD  
Description: 4FT 4100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

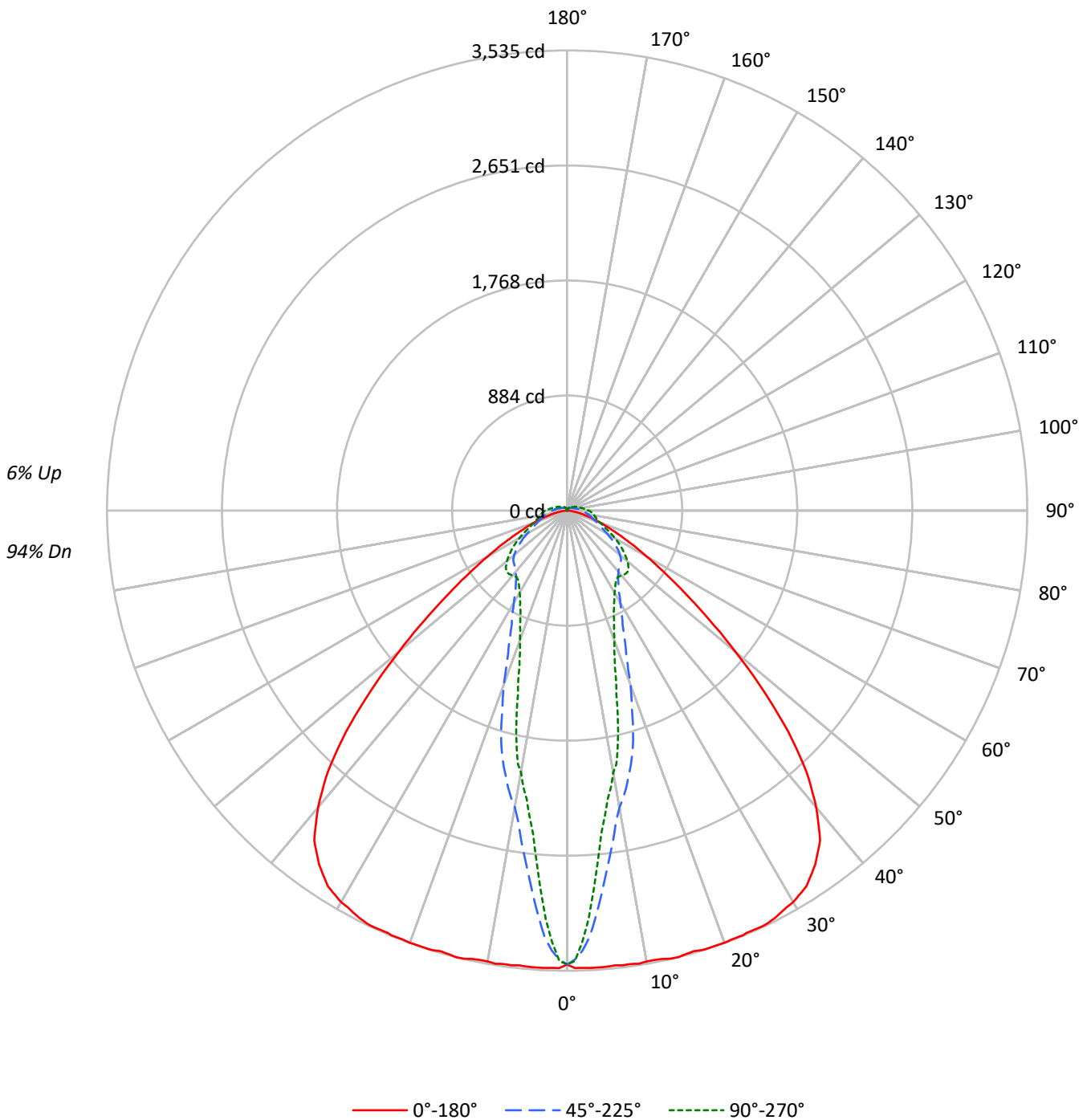
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4297.9 lumens  
Efficiency: N/A  
Efficacy: 163.4 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 26.3  
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: P566382  
CATALOG NUMBER: 4SNX-41SL-LC-UNV-L830-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566382

CATALOG NUMBER: 4SNX-41SL-LC-UNV-L830-CD

**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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

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

	0°	45°	90°
0°	37531	37531	37531
5°	37870	30825	27592
10°	38167	23272	19969
15°	38863	19022	13827
20°	39865	13764	9766
25°	41109	9861	7683
30°	42158	7879	6543
35°	42408	6664	5861
40°	40430	6058	5875
45°	35086	5853	6035
50°	26917	5566	5632
55°	19507	4867	4997
60°	14151	4062	4225
65°	10299	3435	3463
70°	7588	3034	2986
75°	5392	2809	2784
80°	3535	2631	2742
85°	1656	2509	2745



TEST NUMBER: P566382

CATALOG NUMBER: 4SNX-41SL-LC-UNV-L830-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.2	6.4
10°-20°	595.4	13.9
20°-30°	681.6	15.9
30°-40°	682.8	15.9
40°-50°	646.4	15.0
50°-60°	495.7	11.5
60°-70°	319.5	7.4
70°-80°	203.8	4.7
80°-90°	135.3	3.1
90°-100°	90.9	2.1
100°-110°	59.9	1.4
110°-120°	41.7	1.0
120°-130°	29.1	0.7
130°-140°	20.2	0.5
140°-150°	12.3	0.3
150°-160°	6.3	0.1
160°-170°	2.4	0.1
170°-180°	0.5	0.0
0°-30°	1551.2	36.1
0°-40°	2234.0	52.0
0°-60°	3376.1	78.6
0°-90°	4034.7	93.9
90°-120°	192.6	4.5
90°-150°	254.1	5.9
90°-180°	263.0	6.1
0°-180°	4297.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3487	3487	3487	3487	3487	
5°	3518	3324	2978	2778	2703	336
15°	3526	2540	1936	1590	1462	1000
25°	3529	1797	1024	890	848	1627
35°	3322	1000	685	663	654	2061
45°	2401	632	577	639	661	1825
55°	1101	452	445	500	520	1013
65°	440	284	280	319	330	453
75°	150	154	194	222	234	165
85°	20	70	137	178	192	27
90°	0	48	114	159	165	1
95°	0	35	95	130	137	0
105°	0	26	62	88	95	1
115°	2	22	46	64	68	2
125°	2	20	40	46	48	2
135°	2	15	31	37	40	2
145°	2	11	22	29	31	1
155°	2	7	13	20	22	1
165°	4	4	9	11	13	1
175°	4	4	4	4	2	0
180°	4	4	4	4	4	



TEST NUMBER: P566382

CATALOG NUMBER: 4SNX-41SL-LC-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3486.7	3486.7	3486.7	3486.7	3486.7
1°	3515.4	3495.6	3449.3	3462.5	3460.3
2°	3515.4	3473.5	3383.2	3356.8	3317.1
3°	3517.6	3436.1	3281.9	3196.0	3140.9
4°	3517.6	3381.0	3132.1	2989.0	2918.5
5°	3517.6	3323.8	2977.9	2777.5	2702.6
6°	3513.2	3255.5	2821.6	2610.1	2497.8
7°	3519.8	3180.6	2680.6	2453.7	2365.6
8°	3517.6	3092.5	2550.6	2334.8	2237.9
9°	3524.2	3006.6	2409.7	2222.4	2149.8
10°	3517.6	2927.3	2317.2	2116.7	2041.8
11°	3517.6	2850.2	2251.1	2048.4	1984.6
12°	3522.0	2762.1	2178.4	1951.5	1863.4
13°	3533.0	2671.8	2094.7	1845.8	1742.3
14°	3535.2	2603.5	2017.6	1711.4	1603.5
15°	3526.4	2539.6	1936.1	1590.3	1462.5
16°	3522.0	2473.5	1839.2	1475.8	1361.2
17°	3530.8	2396.4	1729.1	1359.0	1253.3
18°	3533.0	2326.0	1612.3	1270.9	1178.4
19°	3533.0	2270.9	1517.6	1189.4	1110.1
20°	3533.0	2218.0	1420.7	1127.7	1059.5
21°	3528.6	2152.0	1310.6	1063.9	1006.6
22.5°	3530.8	2028.6	1185.0	989.0	942.7
23°	3524.2	1997.8	1154.2	969.2	920.7
24°	3526.4	1909.7	1088.1	929.5	883.3
25°	3528.6	1797.3	1024.2	889.9	848.0
26°	3524.2	1707.0	971.4	852.4	823.8
27°	3513.2	1634.3	933.9	821.6	795.1
28°	3497.8	1537.4	894.3	795.1	770.9
29°	3482.3	1427.3	854.6	766.5	748.9
30°	3473.5	1339.2	817.2	744.5	729.1
32.5°	3420.7	1165.2	740.1	700.4	687.2
35°	3321.5	1000.0	685.0	663.0	654.2
37.5°	3191.6	872.2	643.2	638.8	641.0
40°	2977.9	770.9	612.3	632.2	652.0
42.5°	2722.4	691.6	590.3	638.8	660.8
45°	2400.9	632.2	577.1	638.8	660.8
47.5°	2044.0	583.7	561.7	616.7	638.8
50°	1687.2	539.6	530.8	583.7	603.5
52.5°	1372.2	497.8	491.2	541.8	561.7
55°	1101.3	451.5	444.9	500.0	519.8
57.5°	883.3	407.5	400.9	451.5	471.4
60°	704.8	363.4	352.4	403.1	422.9
62.5°	561.7	321.6	315.0	359.0	376.6
65°	440.5	284.1	279.7	319.4	330.4



TEST NUMBER: P566382

CATALOG NUMBER: 4SNX-41SL-LC-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	348.0	248.9	251.1	284.1	297.4
70°	268.7	215.9	229.1	259.9	268.7
72.5°	202.6	182.8	211.5	237.9	248.9
75°	149.8	154.2	193.8	222.5	233.5
77.5°	103.5	127.8	178.4	209.2	220.3
80°	70.5	103.5	163.0	198.2	211.5
82.5°	41.8	85.9	149.8	187.2	202.6
85°	19.8	70.5	136.6	178.4	191.6
87.5°	6.6	57.3	123.3	169.6	180.6
90°	0.0	48.5	114.5	158.6	165.2
92.5°	0.0	41.8	103.5	145.4	149.8
95°	0.0	35.2	94.7	130.0	136.6
97.5°	0.0	33.0	88.1	116.7	125.5
100°	0.0	30.8	79.3	105.7	114.5
102.5°	0.0	26.4	70.5	94.7	103.5
105°	0.0	26.4	61.7	88.1	94.7
107.5°	2.2	24.2	57.3	79.3	88.1
110°	2.2	24.2	50.7	74.9	81.5
112.5°	2.2	24.2	48.5	68.3	77.1
115°	2.2	22.0	46.3	63.9	68.3
117.5°	2.2	22.0	44.1	57.3	61.7
120°	2.2	19.8	41.8	52.9	55.1
122.5°	2.2	19.8	39.6	48.5	50.7
125°	2.2	19.8	39.6	46.3	48.5
127.5°	2.2	17.6	37.4	44.1	44.1
130°	2.2	17.6	35.2	41.8	41.8
132.5°	2.2	15.4	33.0	39.6	41.8
135°	2.2	15.4	30.8	37.4	39.6
137.5°	2.2	13.2	28.6	35.2	37.4
140°	2.2	13.2	26.4	33.0	35.2
142.5°	2.2	11.0	24.2	30.8	33.0
145°	2.2	11.0	22.0	28.6	30.8
147.5°	2.2	11.0	19.8	26.4	28.6
150°	2.2	8.8	17.6	24.2	26.4
152.5°	2.2	8.8	15.4	22.0	24.2
155°	2.2	6.6	13.2	19.8	22.0
157.5°	2.2	6.6	13.2	17.6	19.8
160°	4.4	6.6	11.0	15.4	17.6
162.5°	2.2	4.4	11.0	13.2	15.4
165°	4.4	4.4	8.8	11.0	13.2
167.5°	4.4	4.4	6.6	8.8	11.0
170°	4.4	4.4	6.6	6.6	8.8
172.5°	4.4	4.4	4.4	6.6	4.4
175°	4.4	4.4	4.4	4.4	2.2
177.5°	4.4	4.4	4.4	4.4	2.2



TEST NUMBER: P566382

CATALOG NUMBER: 4SNX-41SL-LC-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	4.4	4.4	4.4	4.4	4.4

(END OF REPORT)