

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: P566254

Luminaire Tested: **4SNX-31SL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-31SL-LW-UNV-L830-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

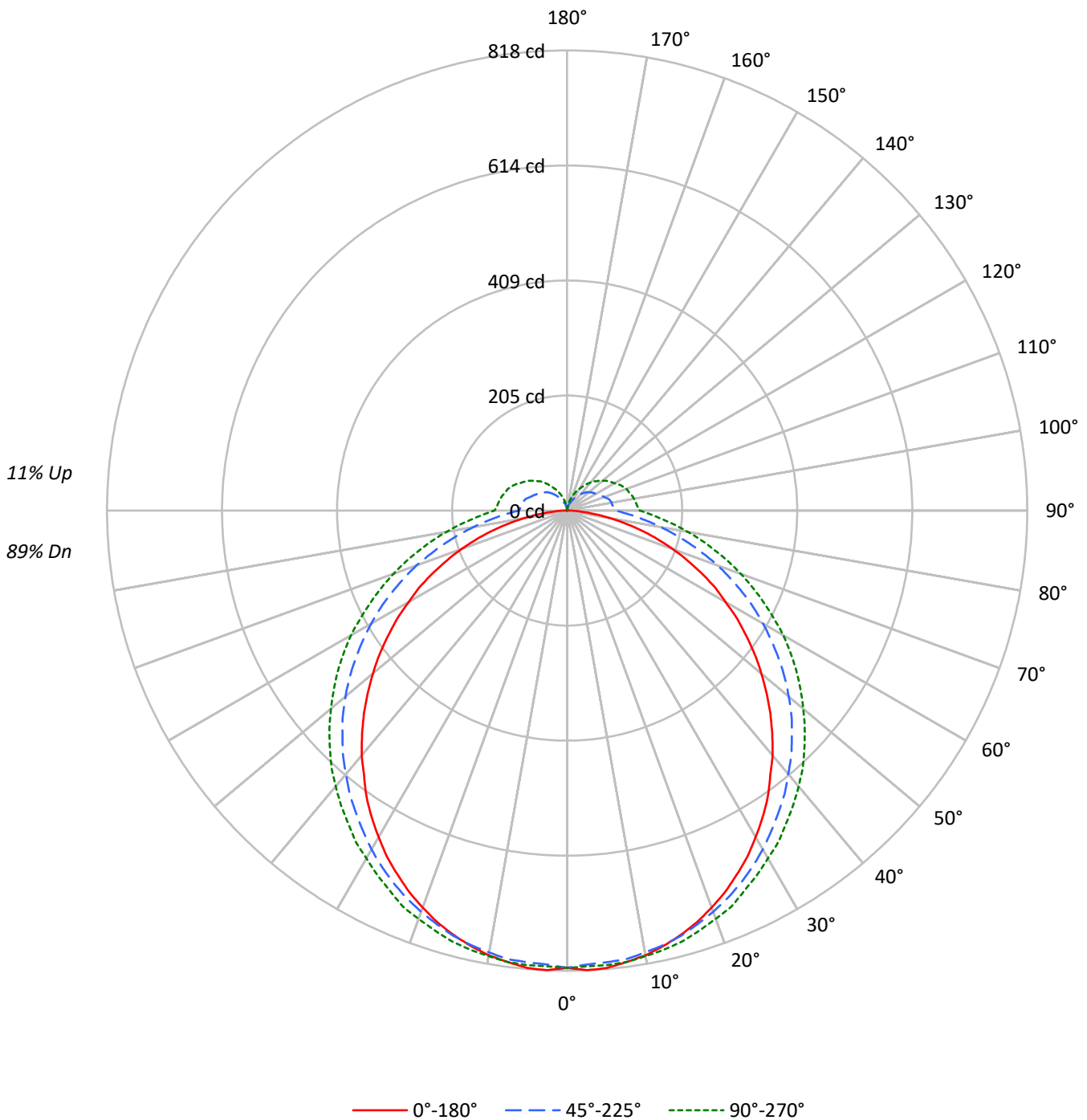
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2893.0 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 19.5  
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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CATALOG NUMBER: 4SNX-31SL-LW-UNV-L830-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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	77	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

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

	0°	45°	90°
0°	8748	8748	8748
5°	8785	8342	8280
10°	8708	8010	7866
15°	8605	7688	7493
20°	8471	7354	7120
25°	8316	7033	6755
30°	8134	6704	6406
35°	7936	6373	6079
40°	7712	6051	5768
45°	7468	5727	5448
50°	7190	5394	5113
55°	6885	5023	4784
60°	6528	4635	4436
65°	6151	4218	4040
70°	5631	3772	3650
75°	4945	3254	3236
80°	3866	2731	2824
85°	2526	2246	2401



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.2	2.7
10°-20°	221.9	7.7
20°-30°	337.3	11.7
30°-40°	409.5	14.2
40°-50°	432.7	15.0
50°-60°	404.9	14.0
60°-70°	332.2	11.5
70°-80°	228.5	7.9
80°-90°	125.1	4.3
90°-100°	80.6	2.8
100°-110°	72.3	2.5
110°-120°	59.9	2.1
120°-130°	46.1	1.6
130°-140°	32.4	1.1
140°-150°	19.5	0.7
150°-160°	9.3	0.3
160°-170°	3.1	0.1
170°-180°	0.4	0.0
0°-30°	636.4	22.0
0°-40°	1045.9	36.2
0°-60°	1883.6	65.1
0°-90°	2569.5	88.8
90°-120°	212.8	7.4
90°-150°	310.8	10.7
90°-180°	324.0	11.2
0°-180°	2893.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	816	814	806	813	811	77
15°	781	784	782	792	792	220
25°	714	722	730	746	746	329
35°	622	637	655	674	679	388
45°	511	534	565	590	596	394
55°	389	421	459	488	498	348
65°	263	298	344	375	385	261
75°	137	174	224	260	271	145
85°	30	72	122	156	168	35
90°	0	40	86	117	129	2
95°	0	38	82	112	124	0
105°	0	32	77	106	116	1
115°	2	28	65	94	106	2
125°	2	24	55	80	90	2
135°	2	18	45	65	74	1
145°	2	13	32	50	55	1
155°	2	8	20	32	37	1
165°	2	5	10	15	18	0
175°	2	2	3	3	2	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 4SNX-31SL-LW-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	812.7	812.7	812.7	812.7	812.7
2.5°	817.7	816.0	807.6	814.3	811.0
5°	816.0	814.3	805.9	812.7	811.0
7.5°	809.3	809.3	804.3	811.0	809.3
10°	802.6	802.6	797.6	805.9	804.3
12.5°	792.5	794.2	790.9	800.9	799.2
15°	780.8	784.2	782.5	792.5	792.5
17.5°	767.4	770.8	770.8	782.5	782.5
20°	750.7	755.7	759.0	772.4	772.4
22.5°	733.9	740.6	745.6	757.4	762.4
25°	713.8	722.2	730.5	745.6	745.6
27.5°	693.7	703.7	713.8	728.9	730.5
30°	670.2	682.0	695.4	710.4	713.8
32.5°	646.8	661.8	675.3	693.7	698.7
35°	621.6	636.7	655.1	673.6	678.6
37.5°	593.2	611.6	635.0	655.1	660.2
40°	568.0	588.1	611.6	635.0	640.1
42.5°	539.5	561.3	589.8	611.6	620.0
45°	511.0	534.5	564.7	589.8	596.5
47.5°	480.9	507.7	541.2	564.7	573.0
50°	450.7	479.2	514.4	541.2	547.9
52.5°	420.6	450.7	487.6	514.4	522.8
55°	388.7	420.6	459.1	487.6	497.6
57.5°	358.6	390.4	430.6	460.8	470.8
60°	325.1	361.9	402.1	432.3	444.0
62.5°	296.6	330.1	373.7	403.8	413.9
65°	263.1	298.3	343.5	375.3	385.4
67.5°	231.2	268.1	313.3	346.8	356.9
70°	199.4	236.3	284.8	316.7	328.4
72.5°	167.6	206.1	253.0	288.2	299.9
75°	137.4	174.3	224.5	259.7	271.4
77.5°	105.6	145.8	196.0	231.2	244.6
80°	77.1	119.0	169.2	204.4	217.8
82.5°	51.9	93.8	144.1	179.3	192.7
85°	30.2	72.0	122.3	155.8	167.6
87.5°	15.1	55.3	102.2	135.7	147.4
90°	0.0	40.2	85.5	117.3	129.0
92.5°	0.0	38.5	83.8	113.9	125.7
95°	0.0	38.5	82.1	112.3	124.0
97.5°	0.0	36.9	80.4	112.3	122.3
100°	0.0	35.2	80.4	110.6	120.6
102.5°	0.0	33.5	78.8	108.9	119.0
105°	0.0	31.8	77.1	105.6	115.6
107.5°	1.7	31.8	73.7	103.9	113.9
110°	1.7	30.2	70.4	102.2	112.3



TEST NUMBER: P566254

CATALOG NUMBER: 4SNX-31SL-LW-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	28.5	67.0	98.9	108.9
115°	1.7	28.5	65.3	93.8	105.6
117.5°	1.7	26.8	62.0	90.5	102.2
120°	1.7	26.8	60.3	87.1	97.2
122.5°	1.7	25.1	57.0	83.8	93.8
125°	1.7	23.5	55.3	80.4	90.5
127.5°	1.7	21.8	53.6	77.1	87.1
130°	1.7	20.1	50.3	73.7	82.1
132.5°	1.7	20.1	48.6	68.7	78.8
135°	1.7	18.4	45.2	65.3	73.7
137.5°	1.7	16.8	41.9	62.0	70.4
140°	1.7	15.1	38.5	58.6	65.3
142.5°	1.7	15.1	35.2	53.6	60.3
145°	1.7	13.4	31.8	50.3	55.3
147.5°	1.7	11.7	28.5	45.2	50.3
150°	1.7	11.7	25.1	40.2	45.2
152.5°	1.7	10.1	21.8	36.9	41.9
155°	1.7	8.4	20.1	31.8	36.9
157.5°	1.7	8.4	16.8	26.8	31.8
160°	1.7	6.7	15.1	21.8	26.8
162.5°	1.7	6.7	13.4	18.4	23.5
165°	1.7	5.0	10.1	15.1	18.4
167.5°	1.7	5.0	8.4	11.7	15.1
170°	1.7	3.4	6.7	8.4	11.7
172.5°	1.7	3.4	5.0	5.0	5.0
175°	1.7	1.7	3.4	3.4	1.7
177.5°	1.7	1.7	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7

(END OF REPORT)