

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: P566231

Luminaire Tested: **4SNX-31SL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-31SL-FDL-UNV-L835-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

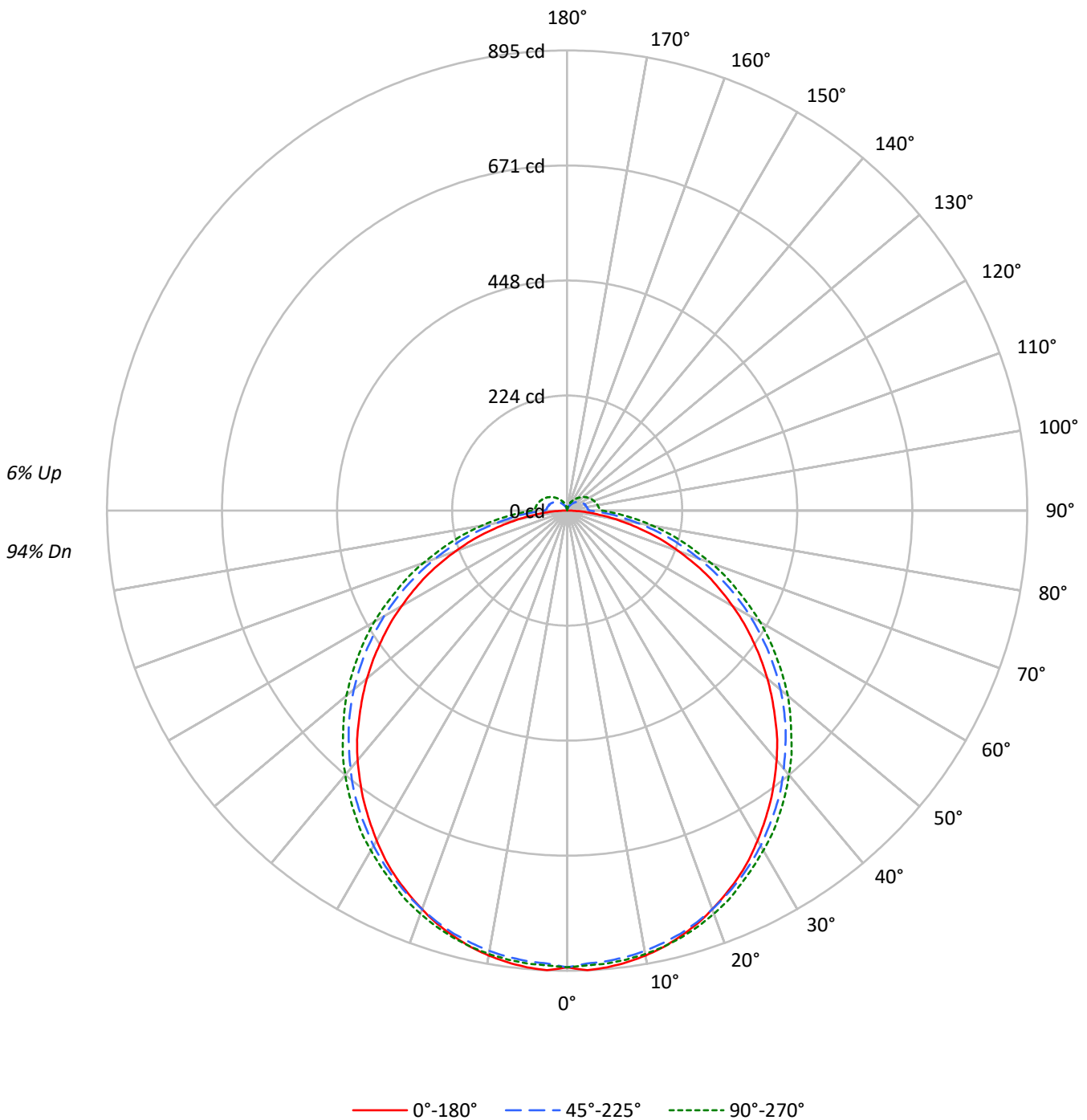
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2823.1 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: 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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### 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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

	0°	45°	90°
0°	9562	9562	9562
5°	9627	9403	9418
10°	9588	9302	9299
15°	9517	9185	9167
20°	9419	9043	9011
25°	9306	8886	8826
30°	9154	8727	8655
35°	9000	8540	8477
40°	8830	8334	8277
45°	8616	8129	8043
50°	8409	7896	7829
55°	8153	7608	7532
60°	7864	7278	7240
65°	7559	6885	6837
70°	7037	6393	6420
75°	6405	5810	5923
80°	5472	5038	5369
85°	4304	4369	4719



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	3.0
10°-20°	241.8	8.6
20°-30°	366.4	13.0
30°-40°	442.3	15.7
40°-50°	461.8	16.4
50°-60°	424.3	15.0
60°-70°	335.5	11.9
70°-80°	212.4	7.5
80°-90°	91.3	3.2
90°-100°	40.2	1.4
100°-110°	36.0	1.3
110°-120°	30.4	1.1
120°-130°	23.7	0.8
130°-140°	16.4	0.6
140°-150°	9.8	0.3
150°-160°	4.8	0.2
160°-170°	1.7	0.1
170°-180°	0.2	0.0
0°-30°	692.4	24.5
0°-40°	1134.7	40.2
0°-60°	2020.8	71.6
0°-90°	2659.9	94.2
90°-120°	106.5	3.8
90°-150°	156.4	5.5
90°-180°	163.0	5.8
0°-180°	2823.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	892	889	880	887	884	85
15°	856	856	852	861	859	242
25°	787	791	792	802	801	363
35°	690	698	707	718	720	431
45°	572	586	601	612	616	442
55°	441	459	478	493	497	394
65°	303	320	343	359	364	299
75°	160	179	205	222	231	170
85°	39	60	86	104	111	43
90°	2	22	44	62	68	3
95°	0	18	40	56	62	0
105°	0	17	38	52	58	1
115°	0	14	34	48	52	1
125°	1	13	28	41	46	1
135°	1	10	23	32	36	1
145°	1	8	16	24	27	1
155°	1	5	10	16	18	0
165°	2	4	6	8	10	0
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	888.3	888.3	888.3	888.3	888.3
2.5°	894.8	891.8	881.8	888.8	885.3
5°	891.8	889.3	879.8	887.3	884.3
7.5°	886.3	884.3	875.8	883.8	880.8
10°	878.8	877.3	869.8	877.8	875.8
12.5°	869.3	868.8	861.3	870.3	868.8
15°	856.4	856.4	851.9	860.8	859.4
17.5°	842.4	842.9	839.4	848.9	847.9
20°	825.4	827.9	825.4	835.4	834.4
22.5°	806.9	810.4	809.4	819.4	819.9
25°	787.4	790.9	791.9	802.4	800.9
27.5°	765.9	771.4	773.4	782.9	782.4
30°	740.9	748.4	752.9	760.9	763.4
32.5°	715.4	724.4	729.9	740.9	743.9
35°	689.9	697.9	706.9	717.9	720.4
37.5°	661.9	670.9	682.9	693.4	696.4
40°	633.9	643.9	655.4	666.9	671.4
42.5°	604.9	615.4	627.9	641.4	645.9
45°	571.9	585.9	600.9	612.4	616.4
47.5°	540.4	555.9	571.9	584.4	588.9
50°	508.4	524.9	541.9	553.4	560.4
52.5°	474.9	492.9	509.9	524.4	528.9
55°	440.9	458.9	477.9	493.4	496.9
57.5°	407.9	425.4	444.4	458.9	465.9
60°	371.9	390.9	411.4	425.9	433.4
62.5°	336.9	355.4	377.4	392.9	398.9
65°	303.4	320.4	342.9	358.9	364.4
67.5°	266.5	286.0	307.4	325.9	332.9
70°	230.0	248.5	273.0	290.4	297.4
72.5°	196.0	214.0	238.5	256.0	262.5
75°	160.0	179.0	205.0	222.5	231.0
77.5°	125.5	146.5	171.5	190.5	200.0
80°	93.5	112.0	139.0	160.0	168.5
82.5°	63.5	83.5	111.5	131.0	140.5
85°	39.0	60.0	86.0	104.5	111.0
87.5°	18.5	38.5	62.5	80.5	88.5
90°	2.5	21.5	44.0	61.5	68.0
92.5°	0.5	18.5	40.5	57.0	63.0
95°	0.5	18.5	40.0	56.0	62.0
97.5°	0.5	18.0	39.5	55.5	61.0
100°	0.5	17.5	39.0	54.5	60.5
102.5°	0.5	17.5	38.0	53.5	59.0
105°	0.5	17.0	37.5	52.5	58.0
107.5°	0.5	16.5	36.5	51.5	57.0
110°	0.5	15.5	36.0	50.0	55.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	15.0	35.0	49.0	54.0
115°	0.5	14.5	34.0	47.5	52.5
117.5°	0.5	14.0	32.5	46.0	51.0
120°	1.0	14.0	31.5	44.5	49.0
122.5°	1.0	13.5	30.0	42.5	47.0
125°	1.0	13.0	28.5	41.0	45.5
127.5°	1.0	12.5	27.0	39.0	43.0
130°	1.0	11.5	26.0	37.0	41.0
132.5°	1.0	11.0	24.5	34.5	38.5
135°	1.0	10.0	23.0	32.5	36.5
137.5°	1.0	9.5	21.5	30.5	34.0
140°	1.0	9.0	19.5	28.5	32.0
142.5°	1.0	8.0	18.0	26.5	29.5
145°	1.0	7.5	16.0	24.5	27.0
147.5°	1.0	6.5	14.5	22.5	25.0
150°	1.0	6.0	13.0	20.5	23.0
152.5°	1.0	5.5	11.5	18.0	20.5
155°	1.0	5.0	10.5	15.5	18.5
157.5°	1.0	4.5	9.0	13.5	16.5
160°	1.5	4.0	8.0	11.5	14.0
162.5°	1.5	3.5	6.5	9.5	12.5
165°	1.5	3.5	5.5	7.5	10.5
167.5°	1.5	3.0	4.5	6.0	8.5
170°	1.5	2.5	4.0	4.5	6.5
172.5°	1.5	2.0	3.0	3.0	3.5
175°	1.5	2.0	2.5	2.5	1.5
177.5°	1.5	1.5	1.5	1.5	1.0
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)