

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: P566233

Luminaire Tested: **4SNX-31SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566233  
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-L850-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

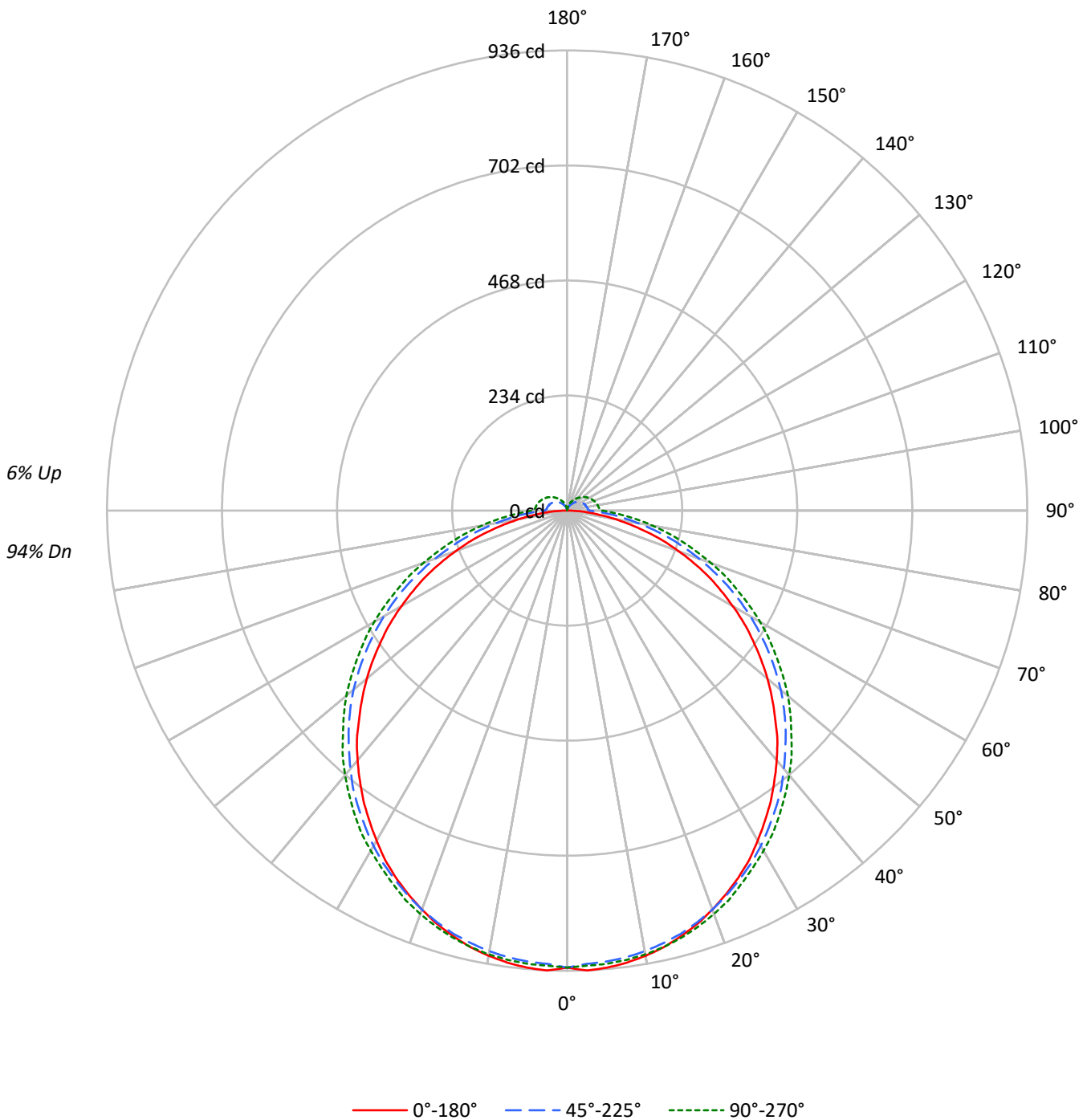
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2954.0 lumens  
Efficiency: N/A  
Efficacy: 151.5 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	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°	10006	10006	10006
5°	10074	9840	9855
10°	10033	9734	9731
15°	9958	9611	9592
20°	9856	9462	9429
25°	9738	9298	9235
30°	9579	9131	9057
35°	9417	8936	8870
40°	9239	8720	8660
45°	9015	8507	8416
50°	8799	8263	8192
55°	8532	7961	7882
60°	8230	7616	7576
65°	7910	7206	7154
70°	7361	6688	6720
75°	6701	6080	6197
80°	5724	5270	5618
85°	4503	4572	4936



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	3.0
10°-20°	253.0	8.6
20°-30°	383.4	13.0
30°-40°	462.8	15.7
40°-50°	483.3	16.4
50°-60°	444.0	15.0
60°-70°	351.1	11.9
70°-80°	222.2	7.5
80°-90°	95.5	3.2
90°-100°	42.0	1.4
100°-110°	37.6	1.3
110°-120°	31.8	1.1
120°-130°	24.8	0.8
130°-140°	17.1	0.6
140°-150°	10.3	0.3
150°-160°	5.0	0.2
160°-170°	1.7	0.1
170°-180°	0.3	0.0
0°-30°	724.5	24.5
0°-40°	1187.3	40.2
0°-60°	2114.5	71.6
0°-90°	2783.3	94.2
90°-120°	111.4	3.8
90°-150°	163.6	5.5
90°-180°	171.0	5.8
0°-180°	2954.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	933	931	921	928	925	89
15°	896	896	891	901	899	253
25°	824	828	829	840	838	379
35°	722	730	740	751	754	451
45°	598	613	629	641	645	462
55°	461	480	500	516	520	413
65°	318	335	359	376	381	313
75°	167	187	214	233	242	177
85°	41	63	90	109	116	45
90°	3	22	46	64	71	3
95°	0	19	42	59	65	0
105°	0	18	39	55	61	1
115°	0	15	36	50	55	1
125°	1	14	30	43	48	1
135°	1	10	24	34	38	1
145°	1	8	17	26	28	1
155°	1	5	11	16	19	0
165°	2	4	6	8	11	0
175°	2	2	3	3	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	929.6	929.6	929.6	929.6	929.6
2.5°	936.4	933.2	922.8	930.1	926.4
5°	933.2	930.6	920.7	928.5	925.4
7.5°	927.5	925.4	916.5	924.9	921.7
10°	919.6	918.1	910.2	918.6	916.5
12.5°	909.7	909.2	901.3	910.7	909.2
15°	896.1	896.1	891.4	900.8	899.2
17.5°	881.4	882.0	878.3	888.2	887.2
20°	863.7	866.3	863.7	874.1	873.1
22.5°	844.3	848.0	846.9	857.4	857.9
25°	823.9	827.6	828.6	839.6	838.0
27.5°	801.4	807.2	809.3	819.2	818.7
30°	775.3	783.1	787.8	796.2	798.8
32.5°	748.6	758.0	763.7	775.3	778.4
35°	721.9	730.3	739.7	751.2	753.8
37.5°	692.6	702.0	714.6	725.6	728.7
40°	663.3	673.8	685.8	697.8	702.5
42.5°	633.0	643.9	657.0	671.2	675.9
45°	598.4	613.1	628.8	640.8	645.0
47.5°	565.5	581.7	598.4	611.5	616.2
50°	532.0	549.3	567.1	579.1	586.4
52.5°	497.0	515.8	533.6	548.7	553.5
55°	461.4	480.2	500.1	516.3	520.0
57.5°	426.9	445.2	465.0	480.2	487.5
60°	389.2	409.1	430.5	445.7	453.5
62.5°	352.6	371.9	394.9	411.2	417.4
65°	317.5	335.3	358.9	375.6	381.3
67.5°	278.8	299.2	321.7	341.1	348.4
70°	240.6	260.0	285.6	303.9	311.3
72.5°	205.1	223.9	249.5	267.8	274.6
75°	167.4	187.3	214.5	232.8	241.7
77.5°	131.3	153.3	179.4	199.3	209.2
80°	97.8	117.2	145.4	167.4	176.3
82.5°	66.4	87.4	116.7	137.1	147.0
85°	40.8	62.8	90.0	109.3	116.1
87.5°	19.4	40.3	65.4	84.2	92.6
90°	2.6	22.5	46.0	64.3	71.1
92.5°	0.5	19.4	42.4	59.6	65.9
95°	0.5	19.4	41.8	58.6	64.9
97.5°	0.5	18.8	41.3	58.1	63.8
100°	0.5	18.3	40.8	57.0	63.3
102.5°	0.5	18.3	39.8	56.0	61.7
105°	0.5	17.8	39.2	54.9	60.7
107.5°	0.5	17.3	38.2	53.9	59.6
110°	0.5	16.2	37.7	52.3	58.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	15.7	36.6	51.3	56.5
115°	0.5	15.2	35.6	49.7	54.9
117.5°	0.5	14.6	34.0	48.1	53.4
120°	1.0	14.6	33.0	46.6	51.3
122.5°	1.0	14.1	31.4	44.5	49.2
125°	1.0	13.6	29.8	42.9	47.6
127.5°	1.0	13.1	28.2	40.8	45.0
130°	1.0	12.0	27.2	38.7	42.9
132.5°	1.0	11.5	25.6	36.1	40.3
135°	1.0	10.5	24.1	34.0	38.2
137.5°	1.0	9.9	22.5	31.9	35.6
140°	1.0	9.4	20.4	29.8	33.5
142.5°	1.0	8.4	18.8	27.7	30.9
145°	1.0	7.8	16.7	25.6	28.2
147.5°	1.0	6.8	15.2	23.5	26.2
150°	1.0	6.3	13.6	21.4	24.1
152.5°	1.0	5.8	12.0	18.8	21.4
155°	1.0	5.2	11.0	16.2	19.4
157.5°	1.0	4.7	9.4	14.1	17.3
160°	1.6	4.2	8.4	12.0	14.6
162.5°	1.6	3.7	6.8	9.9	13.1
165°	1.6	3.7	5.8	7.8	11.0
167.5°	1.6	3.1	4.7	6.3	8.9
170°	1.6	2.6	4.2	4.7	6.8
172.5°	1.6	2.1	3.1	3.1	3.7
175°	1.6	2.1	2.6	2.6	1.6
177.5°	1.6	1.6	1.6	1.6	1.0
180°	1.6	1.6	1.6	1.6	1.6

(END OF REPORT)