

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: P566258

Luminaire Tested: **4SNX-31SL-LW-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566258  
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-L930-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

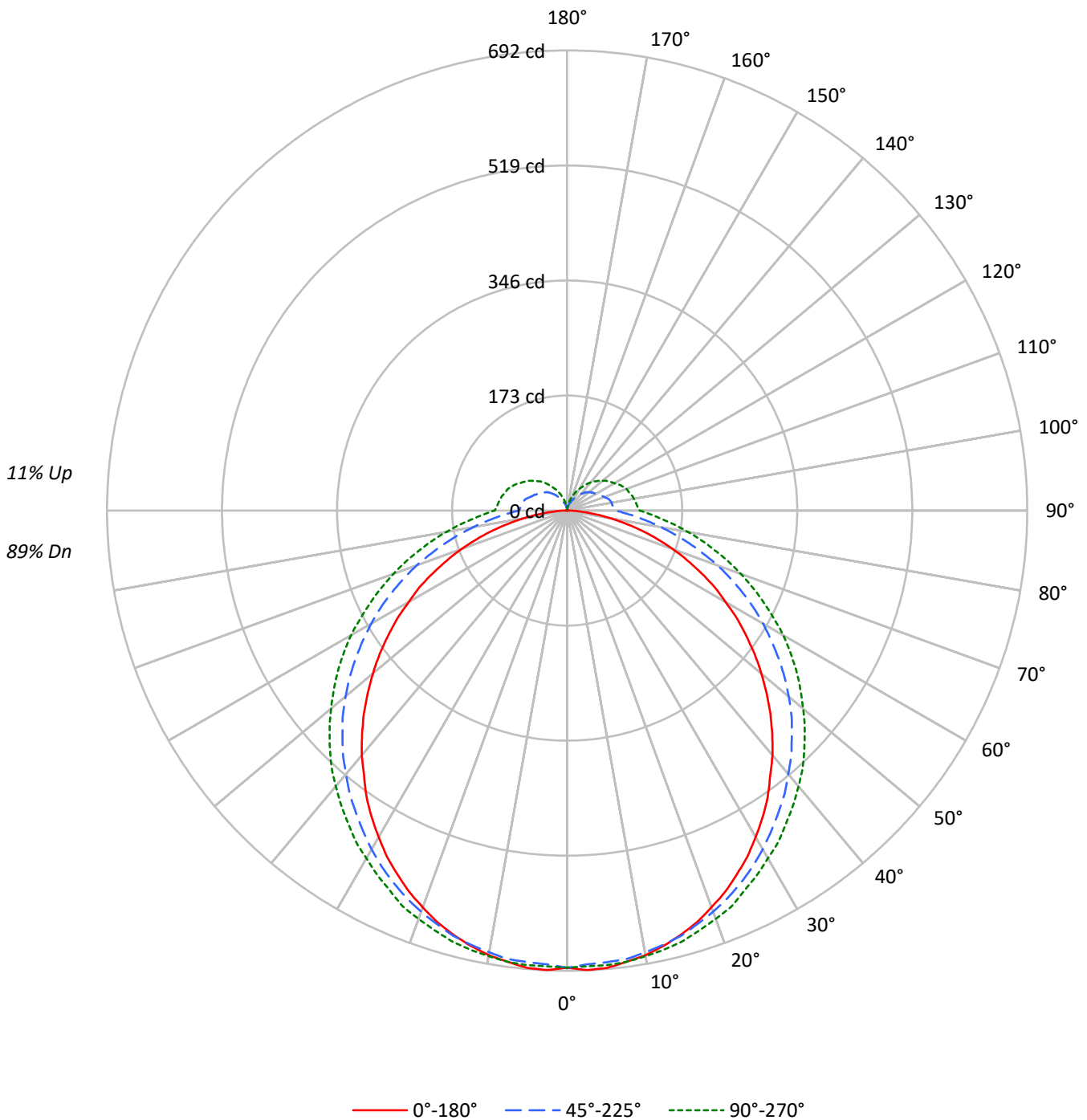
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2447.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 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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### 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	76	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°	7399	7399	7399
5°	7431	7057	7004
10°	7366	6775	6654
15°	7278	6503	6338
20°	7164	6220	6023
25°	7034	5949	5714
30°	6881	5671	5419
35°	6713	5391	5142
40°	6522	5118	4878
45°	6317	4844	4608
50°	6081	4563	4324
55°	5824	4248	4046
60°	5520	3920	3753
65°	5202	3567	3417
70°	4764	3191	3087
75°	4182	2752	2738
80°	3269	2310	2388
85°	2133	1901	2030



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.3	2.7
10°-20°	187.7	7.7
20°-30°	285.3	11.7
30°-40°	346.4	14.2
40°-50°	366.0	15.0
50°-60°	342.5	14.0
60°-70°	281.0	11.5
70°-80°	193.3	7.9
80°-90°	105.9	4.3
90°-100°	68.2	2.8
100°-110°	61.2	2.5
110°-120°	50.6	2.1
120°-130°	39.0	1.6
130°-140°	27.4	1.1
140°-150°	16.5	0.7
150°-160°	7.9	0.3
160°-170°	2.6	0.1
170°-180°	0.3	0.0
0°-30°	538.3	22.0
0°-40°	884.7	36.2
0°-60°	1593.2	65.1
0°-90°	2173.3	88.8
90°-120°	180.0	7.4
90°-150°	262.9	10.7
90°-180°	274.0	11.2
0°-180°	2447.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	690	689	682	687	686	65
15°	660	663	662	670	670	186
25°	604	611	618	631	631	278
35°	526	539	554	570	574	328
45°	432	452	478	499	504	333
55°	329	356	388	412	421	294
65°	222	252	290	318	326	220
75°	116	147	190	220	230	122
85°	26	61	104	132	142	29
90°	0	34	72	99	109	2
95°	0	33	69	95	105	0
105°	0	27	65	89	98	1
115°	1	24	55	79	89	1
125°	1	20	47	68	76	1
135°	1	16	38	55	62	1
145°	1	11	27	42	47	1
155°	1	7	17	27	31	1
165°	1	4	8	13	16	0
175°	1	1	3	3	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	687.4	687.4	687.4	687.4	687.4
2.5°	691.6	690.2	683.1	688.8	686.0
5°	690.2	688.8	681.7	687.4	686.0
7.5°	684.5	684.5	680.3	686.0	684.5
10°	678.9	678.9	674.6	681.7	680.3
12.5°	670.4	671.8	668.9	677.4	676.0
15°	660.4	663.3	661.9	670.4	670.4
17.5°	649.1	651.9	651.9	661.9	661.9
20°	634.9	639.2	642.0	653.4	653.4
22.5°	620.8	626.4	630.7	640.6	644.9
25°	603.8	610.8	617.9	630.7	630.7
27.5°	586.7	595.2	603.8	616.5	617.9
30°	566.9	576.8	588.2	600.9	603.8
32.5°	547.1	559.8	571.2	586.7	591.0
35°	525.8	538.6	554.1	569.7	574.0
37.5°	501.7	517.3	537.1	554.1	558.4
40°	480.4	497.5	517.3	537.1	541.4
42.5°	456.4	474.8	498.9	517.3	524.4
45°	432.3	452.1	477.6	498.9	504.5
47.5°	406.8	429.4	457.8	477.6	484.7
50°	381.2	405.3	435.1	457.8	463.4
52.5°	355.7	381.2	412.4	435.1	442.2
55°	328.8	355.7	388.3	412.4	420.9
57.5°	303.3	330.2	364.2	389.7	398.2
60°	274.9	306.1	340.1	365.7	375.6
62.5°	250.9	279.2	316.0	341.6	350.1
65°	222.5	252.3	290.5	317.5	326.0
67.5°	195.6	226.8	265.0	293.4	301.9
70°	168.7	199.8	240.9	267.9	277.8
72.5°	141.7	174.3	214.0	243.8	253.7
75°	116.2	147.4	189.9	219.7	229.6
77.5°	89.3	123.3	165.8	195.6	206.9
80°	65.2	100.6	143.1	172.9	184.2
82.5°	43.9	79.4	121.9	151.6	163.0
85°	25.5	60.9	103.5	131.8	141.7
87.5°	12.8	46.8	86.5	114.8	124.7
90°	0.0	34.0	72.3	99.2	109.1
92.5°	0.0	32.6	70.9	96.4	106.3
95°	0.0	32.6	69.4	95.0	104.9
97.5°	0.0	31.2	68.0	95.0	103.5
100°	0.0	29.8	68.0	93.5	102.0
102.5°	0.0	28.3	66.6	92.1	100.6
105°	0.0	26.9	65.2	89.3	97.8
107.5°	1.4	26.9	62.4	87.9	96.4
110°	1.4	25.5	59.5	86.5	95.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	24.1	56.7	83.6	92.1
115°	1.4	24.1	55.3	79.4	89.3
117.5°	1.4	22.7	52.4	76.5	86.5
120°	1.4	22.7	51.0	73.7	82.2
122.5°	1.4	21.3	48.2	70.9	79.4
125°	1.4	19.8	46.8	68.0	76.5
127.5°	1.4	18.4	45.4	65.2	73.7
130°	1.4	17.0	42.5	62.4	69.4
132.5°	1.4	17.0	41.1	58.1	66.6
135°	1.4	15.6	38.3	55.3	62.4
137.5°	1.4	14.2	35.4	52.4	59.5
140°	1.4	12.8	32.6	49.6	55.3
142.5°	1.4	12.8	29.8	45.4	51.0
145°	1.4	11.3	26.9	42.5	46.8
147.5°	1.4	9.9	24.1	38.3	42.5
150°	1.4	9.9	21.3	34.0	38.3
152.5°	1.4	8.5	18.4	31.2	35.4
155°	1.4	7.1	17.0	26.9	31.2
157.5°	1.4	7.1	14.2	22.7	26.9
160°	1.4	5.7	12.8	18.4	22.7
162.5°	1.4	5.7	11.3	15.6	19.8
165°	1.4	4.3	8.5	12.8	15.6
167.5°	1.4	4.3	7.1	9.9	12.8
170°	1.4	2.8	5.7	7.1	9.9
172.5°	1.4	2.8	4.3	4.3	4.3
175°	1.4	1.4	2.8	2.8	1.4
177.5°	1.4	1.4	1.4	1.4	1.4
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)