

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: P566241

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566241  
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-31SL-LC-UNV-L850-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

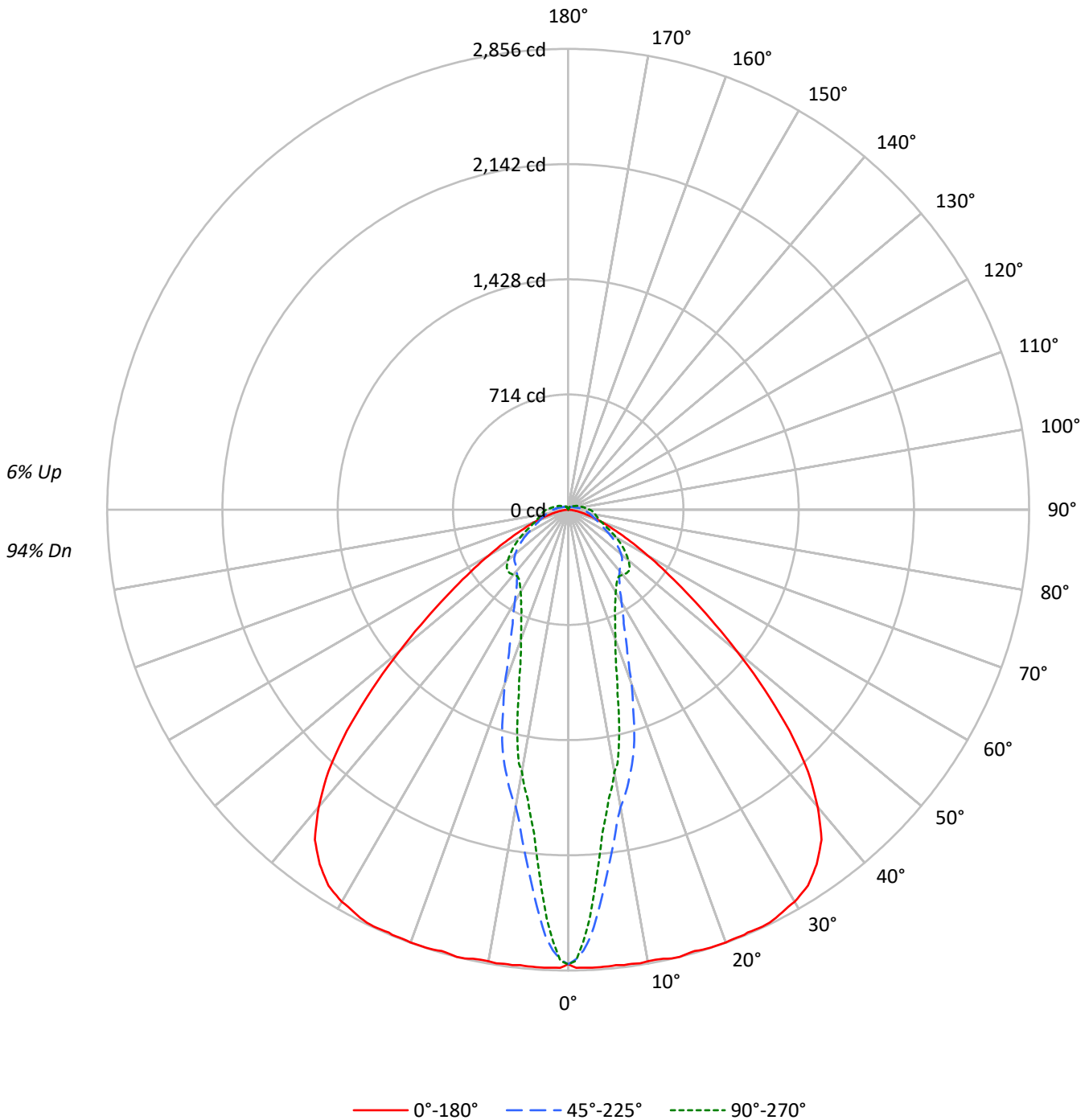
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3472.0 lumens  
Efficiency: N/A  
Efficacy: 178.1 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): 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	50	30	10	0		
RCR																										
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94					94			
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80					80			
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69					69			
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60					60			
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53					53			
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47					47			
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42					42			
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38					38			
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35					35			
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32					32			
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30					30			

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

	0°	45°	90°
0°	30319	30319	30319
5°	30592	24901	22289
10°	30832	18798	16132
15°	31394	15366	11171
20°	32203	11119	7890
25°	33209	7966	6206
30°	34057	6364	5286
35°	34259	5384	4735
40°	32660	4893	4746
45°	28343	4728	4875
50°	21745	4496	4549
55°	15759	3932	4037
60°	11433	3282	3413
65°	8321	2775	2798
70°	6131	2450	2413
75°	4355	2270	2249
80°	2853	2126	2214
85°	1339	2026	2218



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.5	6.4
10°-20°	481.0	13.9
20°-30°	550.6	15.9
30°-40°	551.6	15.9
40°-50°	522.1	15.0
50°-60°	400.4	11.5
60°-70°	258.1	7.4
70°-80°	164.6	4.7
80°-90°	109.3	3.1
90°-100°	73.5	2.1
100°-110°	48.4	1.4
110°-120°	33.7	1.0
120°-130°	23.5	0.7
130°-140°	16.3	0.5
140°-150°	10.0	0.3
150°-160°	5.1	0.1
160°-170°	2.0	0.1
170°-180°	0.4	0.0
0°-30°	1253.1	36.1
0°-40°	1804.7	52.0
0°-60°	2727.3	78.6
0°-90°	3259.3	93.9
90°-120°	155.6	4.5
90°-150°	205.4	5.9
90°-180°	213.0	6.1
0°-180°	3472.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2817	2817	2817	2817	2817	
5°	2842	2685	2406	2244	2183	271
15°	2849	2052	1564	1285	1182	808
25°	2850	1452	827	719	685	1314
35°	2683	808	553	536	528	1665
45°	1940	511	466	516	534	1475
55°	890	365	359	404	420	818
65°	356	230	226	258	267	366
75°	121	125	157	180	189	133
85°	16	57	110	144	155	22
90°	0	39	92	128	133	1
95°	0	28	76	105	110	0
105°	0	21	50	71	76	1
115°	2	18	37	52	55	2
125°	2	16	32	37	39	2
135°	2	12	25	30	32	1
145°	2	9	18	23	25	1
155°	2	5	11	16	18	1
165°	4	4	7	9	11	1
175°	4	4	4	4	2	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2816.7	2816.7	2816.7	2816.7	2816.7
1°	2839.8	2823.8	2786.4	2797.1	2795.3
2°	2839.8	2806.0	2733.0	2711.7	2679.6
3°	2841.6	2775.7	2651.2	2581.8	2537.3
4°	2841.6	2731.2	2530.2	2414.5	2357.6
5°	2841.6	2685.0	2405.6	2243.7	2183.2
6°	2838.0	2629.8	2279.3	2108.5	2017.7
7°	2843.3	2569.3	2165.4	1982.2	1911.0
8°	2841.6	2498.2	2060.4	1886.1	1807.8
9°	2846.9	2428.8	1946.6	1795.3	1736.6
10°	2841.6	2364.7	1871.8	1709.9	1649.4
11°	2841.6	2302.4	1818.5	1654.8	1603.2
12°	2845.1	2231.3	1759.7	1576.5	1505.3
13°	2854.0	2158.3	1692.1	1491.1	1407.4
14°	2855.8	2103.1	1629.9	1382.5	1295.3
15°	2848.7	2051.5	1564.0	1284.7	1181.5
16°	2845.1	1998.2	1485.7	1192.1	1099.6
17°	2852.2	1935.9	1396.8	1097.8	1012.4
18°	2854.0	1879.0	1302.5	1026.7	951.9
19°	2854.0	1834.5	1225.9	960.8	896.8
20°	2854.0	1791.8	1147.7	911.0	855.9
21°	2850.5	1738.4	1058.7	859.4	813.1
22.5°	2852.2	1638.7	957.3	798.9	761.5
23°	2846.9	1613.8	932.4	782.9	743.8
24°	2848.7	1542.7	879.0	750.9	713.5
25°	2850.5	1451.9	827.4	718.8	685.0
26°	2846.9	1379.0	784.7	688.6	665.5
27°	2838.0	1320.3	754.4	663.7	642.3
28°	2825.6	1242.0	722.4	642.3	622.8
29°	2813.1	1153.0	690.4	619.2	605.0
30°	2806.0	1081.8	660.1	601.4	589.0
32.5°	2763.3	941.3	597.8	565.8	555.1
35°	2683.2	807.8	553.4	535.6	528.5
37.5°	2578.2	704.6	519.6	516.0	517.8
40°	2405.6	622.8	494.6	510.7	526.7
42.5°	2199.2	558.7	476.9	516.0	533.8
45°	1939.5	510.7	466.2	516.0	533.8
47.5°	1651.2	471.5	453.7	498.2	516.0
50°	1363.0	435.9	428.8	471.5	487.5
52.5°	1108.5	402.1	396.8	437.7	453.7
55°	889.7	364.8	359.4	403.9	419.9
57.5°	713.5	329.2	323.8	364.8	380.8
60°	569.4	293.6	284.7	325.6	341.6
62.5°	453.7	259.8	254.4	290.0	304.3
65°	355.9	229.5	226.0	258.0	266.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	281.1	201.1	202.8	229.5	240.2
70°	217.1	174.4	185.0	210.0	217.1
72.5°	163.7	147.7	170.8	192.2	201.1
75°	121.0	124.6	156.6	179.7	188.6
77.5°	83.6	103.2	144.1	169.0	177.9
80°	56.9	83.6	131.7	160.1	170.8
82.5°	33.8	69.4	121.0	151.2	163.7
85°	16.0	56.9	110.3	144.1	154.8
87.5°	5.3	46.3	99.6	137.0	145.9
90°	0.0	39.1	92.5	128.1	133.4
92.5°	0.0	33.8	83.6	117.4	121.0
95°	0.0	28.5	76.5	105.0	110.3
97.5°	0.0	26.7	71.2	94.3	101.4
100°	0.0	24.9	64.1	85.4	92.5
102.5°	0.0	21.4	56.9	76.5	83.6
105°	0.0	21.4	49.8	71.2	76.5
107.5°	1.8	19.6	46.3	64.1	71.2
110°	1.8	19.6	40.9	60.5	65.8
112.5°	1.8	19.6	39.1	55.2	62.3
115°	1.8	17.8	37.4	51.6	55.2
117.5°	1.8	17.8	35.6	46.3	49.8
120°	1.8	16.0	33.8	42.7	44.5
122.5°	1.8	16.0	32.0	39.1	40.9
125°	1.8	16.0	32.0	37.4	39.1
127.5°	1.8	14.2	30.2	35.6	35.6
130°	1.8	14.2	28.5	33.8	33.8
132.5°	1.8	12.5	26.7	32.0	33.8
135°	1.8	12.5	24.9	30.2	32.0
137.5°	1.8	10.7	23.1	28.5	30.2
140°	1.8	10.7	21.4	26.7	28.5
142.5°	1.8	8.9	19.6	24.9	26.7
145°	1.8	8.9	17.8	23.1	24.9
147.5°	1.8	8.9	16.0	21.4	23.1
150°	1.8	7.1	14.2	19.6	21.4
152.5°	1.8	7.1	12.5	17.8	19.6
155°	1.8	5.3	10.7	16.0	17.8
157.5°	1.8	5.3	10.7	14.2	16.0
160°	3.6	5.3	8.9	12.5	14.2
162.5°	1.8	3.6	8.9	10.7	12.5
165°	3.6	3.6	7.1	8.9	10.7
167.5°	3.6	3.6	5.3	7.1	8.9
170°	3.6	3.6	5.3	5.3	7.1
172.5°	3.6	3.6	3.6	5.3	3.6
175°	3.6	3.6	3.6	3.6	1.8
177.5°	3.6	3.6	3.6	3.6	1.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)