

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: P566239

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566239  
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-L835-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

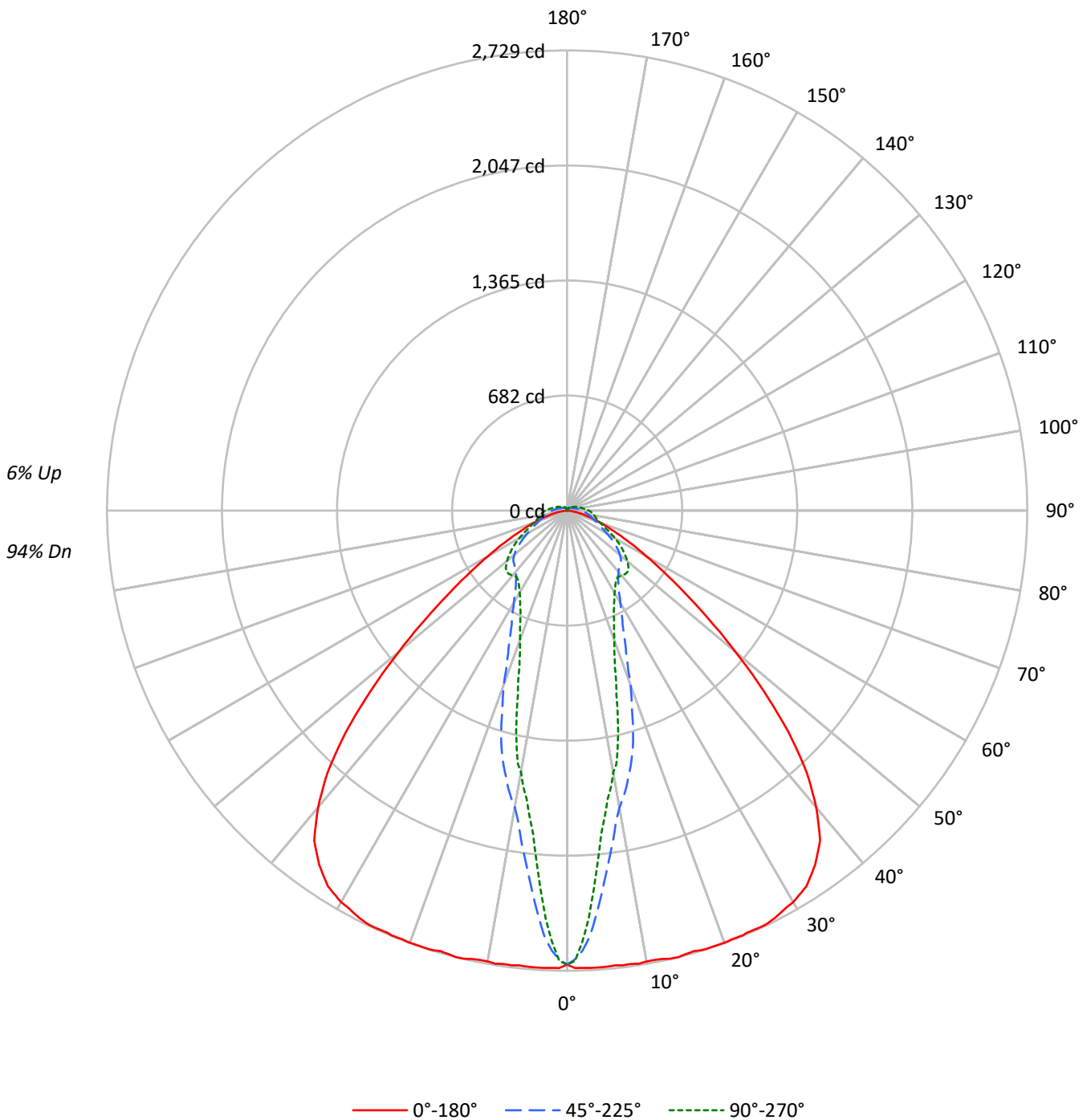
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3317.9 lumens  
Efficiency: N/A  
Efficacy: 170.1 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 (Ain): 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

TEST NUMBER: P566239  
CATALOG NUMBER: 4SNX-31SL-LC-UNV-L835-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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

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

	0°	45°	90°
0°	28973	28973	28973
5°	29234	23797	21301
10°	29464	17965	15417
15°	30001	14684	10675
20°	30775	10626	7539
25°	31735	7613	5932
30°	32546	6082	5051
35°	32739	5144	4524
40°	31211	4677	4535
45°	27085	4518	4659
50°	20779	4297	4348
55°	15059	3758	3858
60°	10925	3137	3262
65°	7952	2651	2674
70°	5857	2342	2305
75°	4161	2168	2149
80°	2728	2030	2116
85°	1280	1936	2119



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.7	6.4
10°-20°	459.7	13.9
20°-30°	526.2	15.9
30°-40°	527.1	15.9
40°-50°	499.0	15.0
50°-60°	382.7	11.5
60°-70°	246.7	7.4
70°-80°	157.3	4.7
80°-90°	104.4	3.1
90°-100°	70.2	2.1
100°-110°	46.3	1.4
110°-120°	32.2	1.0
120°-130°	22.4	0.7
130°-140°	15.6	0.5
140°-150°	9.5	0.3
150°-160°	4.8	0.1
160°-170°	1.9	0.1
170°-180°	0.4	0.0
0°-30°	1197.5	36.1
0°-40°	1724.6	52.0
0°-60°	2606.3	78.6
0°-90°	3114.7	93.9
90°-120°	148.6	4.5
90°-150°	196.2	5.9
90°-180°	203.0	6.1
0°-180°	3317.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2692	2692	2692	2692	2692	
5°	2716	2566	2299	2144	2086	259
15°	2722	1961	1495	1228	1129	772
25°	2724	1388	791	687	655	1256
35°	2564	772	529	512	505	1591
45°	1853	488	446	493	510	1409
55°	850	349	344	386	401	782
65°	340	219	216	247	255	350
75°	116	119	150	172	180	127
85°	15	54	105	138	148	21
90°	0	37	88	122	128	1
95°	0	27	73	100	105	0
105°	0	20	48	68	73	1
115°	2	17	36	49	53	2
125°	2	15	31	36	37	2
135°	2	12	24	29	31	1
145°	2	8	17	22	24	1
155°	2	5	10	15	17	1
165°	3	3	7	8	10	1
175°	3	3	3	3	2	0
180°	3	3	3	3	3	



TEST NUMBER: P566239

CATALOG NUMBER: 4SNX-31SL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2691.7	2691.7	2691.7	2691.7	2691.7
1°	2713.8	2698.5	2662.8	2673.0	2671.3
2°	2713.8	2681.5	2611.8	2591.4	2560.8
3°	2715.5	2652.6	2533.6	2467.3	2424.8
4°	2715.5	2610.1	2418.0	2307.4	2253.0
5°	2715.5	2565.9	2298.9	2144.2	2086.4
6°	2712.1	2513.2	2178.2	2015.0	1928.2
7°	2717.2	2455.4	2069.4	1894.2	1826.2
8°	2715.5	2387.4	1969.1	1802.4	1727.6
9°	2720.6	2321.0	1860.2	1715.7	1659.6
10°	2715.5	2259.8	1788.8	1634.1	1576.3
11°	2715.5	2200.3	1737.8	1581.4	1532.1
12°	2718.9	2132.3	1681.7	1506.5	1438.5
13°	2727.4	2062.6	1617.1	1424.9	1345.0
14°	2729.1	2009.9	1557.6	1321.2	1237.9
15°	2722.3	1960.6	1494.6	1227.7	1129.1
16°	2718.9	1909.5	1419.8	1139.3	1050.8
17°	2725.7	1850.0	1334.8	1049.1	967.5
18°	2727.4	1795.6	1244.7	981.1	909.7
19°	2727.4	1753.1	1171.6	918.2	857.0
20°	2727.4	1712.3	1096.8	870.6	817.9
21°	2724.0	1661.3	1011.7	821.3	777.1
22.5°	2725.7	1566.1	914.8	763.5	727.8
23°	2720.6	1542.3	891.0	748.2	710.8
24°	2722.3	1474.2	840.0	717.6	681.9
25°	2724.0	1387.5	790.7	687.0	654.7
26°	2720.6	1317.8	749.9	658.1	635.9
27°	2712.1	1261.7	721.0	634.2	613.8
28°	2700.2	1186.9	690.4	613.8	595.1
29°	2688.3	1101.9	659.8	591.7	578.1
30°	2681.5	1033.8	630.8	574.7	562.8
32.5°	2640.7	899.5	571.3	540.7	530.5
35°	2564.2	772.0	528.8	511.8	505.0
37.5°	2463.9	673.4	496.5	493.1	494.8
40°	2298.9	595.1	472.7	488.0	503.3
42.5°	2101.7	533.9	455.7	493.1	510.1
45°	1853.4	488.0	445.5	493.1	510.1
47.5°	1578.0	450.6	433.6	476.1	493.1
50°	1302.5	416.6	409.8	450.6	465.9
52.5°	1059.3	384.3	379.2	418.3	433.6
55°	850.2	348.6	343.5	386.0	401.3
57.5°	681.9	314.6	309.5	348.6	363.9
60°	544.1	280.6	272.1	311.2	326.5
62.5°	433.6	248.3	243.2	277.2	290.8
65°	340.1	219.4	215.9	246.6	255.1



TEST NUMBER: P566239

CATALOG NUMBER: 4SNX-31SL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	268.7	192.1	193.8	219.4	229.6
70°	207.4	166.6	176.8	200.6	207.4
72.5°	156.4	141.1	163.2	183.6	192.1
75°	115.6	119.0	149.6	171.7	180.2
77.5°	79.9	98.6	137.7	161.5	170.0
80°	54.4	79.9	125.8	153.0	163.2
82.5°	32.3	66.3	115.6	144.5	156.4
85°	15.3	54.4	105.4	137.7	147.9
87.5°	5.1	44.2	95.2	130.9	139.4
90°	0.0	37.4	88.4	122.4	127.5
92.5°	0.0	32.3	79.9	112.2	115.6
95°	0.0	27.2	73.1	100.3	105.4
97.5°	0.0	25.5	68.0	90.1	96.9
100°	0.0	23.8	61.2	81.6	88.4
102.5°	0.0	20.4	54.4	73.1	79.9
105°	0.0	20.4	47.6	68.0	73.1
107.5°	1.7	18.7	44.2	61.2	68.0
110°	1.7	18.7	39.1	57.8	62.9
112.5°	1.7	18.7	37.4	52.7	59.5
115°	1.7	17.0	35.7	49.3	52.7
117.5°	1.7	17.0	34.0	44.2	47.6
120°	1.7	15.3	32.3	40.8	42.5
122.5°	1.7	15.3	30.6	37.4	39.1
125°	1.7	15.3	30.6	35.7	37.4
127.5°	1.7	13.6	28.9	34.0	34.0
130°	1.7	13.6	27.2	32.3	32.3
132.5°	1.7	11.9	25.5	30.6	32.3
135°	1.7	11.9	23.8	28.9	30.6
137.5°	1.7	10.2	22.1	27.2	28.9
140°	1.7	10.2	20.4	25.5	27.2
142.5°	1.7	8.5	18.7	23.8	25.5
145°	1.7	8.5	17.0	22.1	23.8
147.5°	1.7	8.5	15.3	20.4	22.1
150°	1.7	6.8	13.6	18.7	20.4
152.5°	1.7	6.8	11.9	17.0	18.7
155°	1.7	5.1	10.2	15.3	17.0
157.5°	1.7	5.1	10.2	13.6	15.3
160°	3.4	5.1	8.5	11.9	13.6
162.5°	1.7	3.4	8.5	10.2	11.9
165°	3.4	3.4	6.8	8.5	10.2
167.5°	3.4	3.4	5.1	6.8	8.5
170°	3.4	3.4	5.1	5.1	6.8
172.5°	3.4	3.4	3.4	5.1	3.4
175°	3.4	3.4	3.4	3.4	1.7
177.5°	3.4	3.4	3.4	3.4	1.7



TEST NUMBER: P566239

CATALOG NUMBER: 4SNX-31SL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)