

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: P566251

Luminaire Tested: **4SNX-31SL-LN-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-31SL-LN-UNV-L935-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

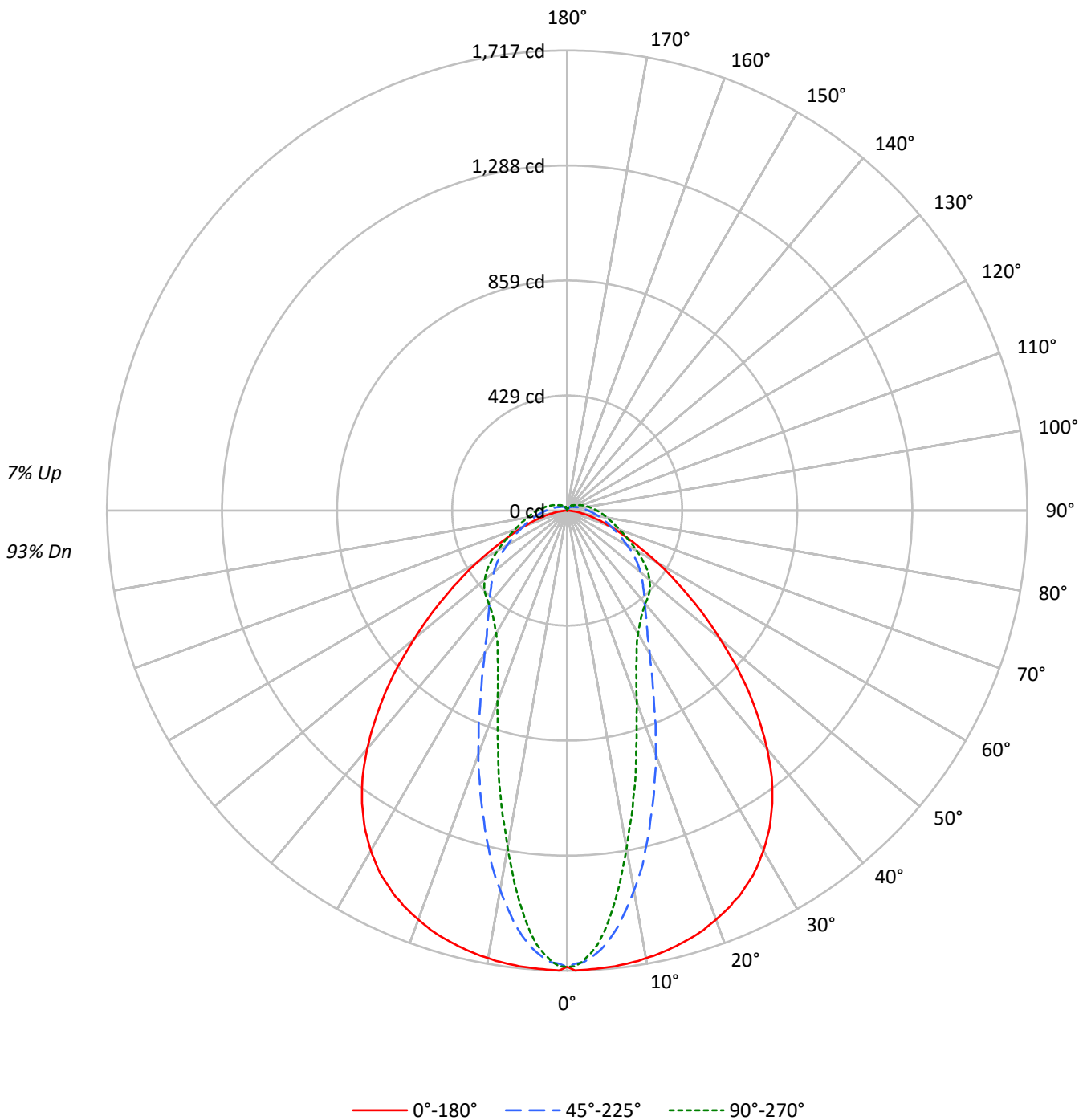
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2714.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
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_{in}): 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18327	18327	18327
5°	18421	16844	16119
10°	18397	14442	12506
15°	18387	11781	9373
20°	18328	9384	7015
25°	18162	7354	5567
30°	17781	5951	4749
35°	17035	5036	4320
40°	15758	4447	4088
45°	14010	4068	3962
50°	11868	3744	3743
55°	9751	3393	3418
60°	7797	2984	2998
65°	6053	2620	2609
70°	4699	2318	2308
75°	3635	2083	2103
80°	2567	1906	1955
85°	1431	1776	1875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	5.6
10°-20°	353.4	13.0
20°-30°	419.5	15.5
30°-40°	422.1	15.6
40°-50°	392.3	14.5
50°-60°	323.1	11.9
60°-70°	227.7	8.4
70°-80°	148.7	5.5
80°-90°	95.0	3.5
90°-100°	62.3	2.3
100°-110°	42.3	1.6
110°-120°	29.0	1.1
120°-130°	20.0	0.7
130°-140°	13.5	0.5
140°-150°	8.3	0.3
150°-160°	4.3	0.2
160°-170°	1.6	0.1
170°-180°	0.3	0.0
0°-30°	923.7	34.0
0°-40°	1345.8	49.6
0°-60°	2061.2	75.9
0°-90°	2532.5	93.3
90°-120°	133.5	4.9
90°-150°	175.3	6.5
90°-180°	181.0	6.7
0°-180°	2714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1703	1703	1703	1703	1703	
5°	1711	1688	1627	1596	1579	163
15°	1668	1491	1199	1048	991	471
25°	1559	1152	764	642	614	717
35°	1334	780	518	485	482	830
45°	959	514	401	422	434	736
55°	550	337	310	344	356	497
65°	259	203	213	240	249	263
75°	101	105	144	169	176	109
85°	17	48	97	125	131	21
90°	0	33	78	107	111	1
95°	0	24	65	90	94	0
105°	0	17	44	63	68	0
115°	1	14	31	46	48	1
125°	1	11	26	33	36	1
135°	1	10	20	26	27	1
145°	1	7	14	20	21	1
155°	1	6	10	14	16	1
165°	1	3	6	7	8	0
175°	3	3	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°	1702.6	1702.6	1702.6	1702.6	1702.6
1°	1716.8	1709.7	1691.2	1704.0	1701.2
2°	1715.4	1708.3	1686.9	1692.6	1682.7
3°	1714.0	1704.0	1671.3	1669.9	1655.6
4°	1712.5	1696.9	1651.4	1634.3	1622.9
5°	1711.1	1688.3	1627.2	1595.9	1578.8
6°	1709.7	1678.4	1595.9	1549.0	1524.8
7°	1706.8	1662.7	1563.2	1499.2	1467.9
8°	1704.0	1648.5	1521.9	1445.1	1406.7
9°	1701.2	1630.0	1480.7	1386.8	1341.3
10°	1695.5	1611.5	1438.0	1327.1	1278.7
11°	1692.6	1590.2	1396.8	1270.2	1213.3
12°	1686.9	1567.4	1352.7	1210.4	1160.7
13°	1681.2	1543.3	1298.6	1159.2	1099.5
14°	1675.5	1517.7	1251.7	1102.3	1046.9
15°	1668.4	1490.6	1199.1	1048.3	991.4
16°	1661.3	1459.3	1152.1	992.8	933.1
17°	1654.2	1429.5	1108.0	941.6	887.6
18°	1645.7	1399.6	1056.8	891.8	839.2
19°	1634.3	1365.5	1015.6	846.3	797.9
20°	1624.3	1334.2	968.6	803.6	761.0
21°	1613.0	1295.8	921.7	763.8	721.1
22.5°	1595.9	1241.7	862.0	714.0	674.2
23°	1587.4	1226.1	837.8	695.5	661.4
24°	1576.0	1184.8	797.9	667.1	633.0
25°	1558.9	1152.1	763.8	641.5	614.5
26°	1543.3	1112.3	729.7	618.7	591.7
27°	1527.6	1073.9	699.8	594.5	571.8
28°	1507.7	1034.1	667.1	574.6	554.7
29°	1486.4	997.1	640.1	557.6	541.9
30°	1465.0	955.8	617.3	541.9	529.1
32.5°	1405.3	864.8	559.0	512.1	503.5
35°	1334.2	779.5	517.7	485.0	482.2
37.5°	1254.5	701.2	480.8	463.7	466.5
40°	1160.7	630.1	449.5	448.0	453.7
42.5°	1061.1	568.9	425.3	435.2	443.8
45°	958.7	513.5	401.1	422.4	433.8
47.5°	852.0	465.1	379.8	406.8	419.6
50°	743.9	418.2	357.0	388.3	401.1
52.5°	647.2	376.9	334.3	367.0	381.2
55°	550.5	337.1	310.1	344.2	355.6
57.5°	466.5	300.1	284.5	318.6	327.1
60°	388.3	264.6	258.9	290.2	300.1
62.5°	317.2	233.3	234.7	264.6	274.5
65°	258.9	203.4	213.4	240.4	248.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	210.5	175.0	192.0	220.5	227.6
70°	166.4	149.3	175.0	200.6	207.7
72.5°	132.3	126.6	157.9	184.9	190.6
75°	101.0	105.3	143.7	169.3	176.4
77.5°	72.5	88.2	129.4	156.5	162.1
80°	51.2	72.5	118.1	145.1	150.8
82.5°	32.7	59.7	106.7	135.1	140.8
85°	17.1	48.4	96.7	125.2	130.9
87.5°	7.1	39.8	86.8	115.2	120.9
90°	0.0	32.7	78.2	106.7	110.9
92.5°	0.0	28.4	71.1	98.1	102.4
95°	0.0	24.2	65.4	89.6	93.9
97.5°	0.0	22.8	58.3	82.5	86.8
100°	0.0	19.9	52.6	75.4	81.1
102.5°	0.0	18.5	48.4	68.3	74.0
105°	0.0	17.1	44.1	62.6	68.3
107.5°	0.0	15.6	41.2	58.3	62.6
110°	0.0	15.6	37.0	54.0	58.3
112.5°	1.4	14.2	34.1	48.4	52.6
115°	1.4	14.2	31.3	45.5	48.4
117.5°	1.4	14.2	29.9	41.2	44.1
120°	1.4	12.8	28.4	38.4	41.2
122.5°	1.4	12.8	27.0	35.6	37.0
125°	1.4	11.4	25.6	32.7	35.6
127.5°	1.4	11.4	24.2	31.3	32.7
130°	1.4	11.4	22.8	28.4	31.3
132.5°	1.4	10.0	21.3	27.0	28.4
135°	1.4	10.0	19.9	25.6	27.0
137.5°	1.4	8.5	18.5	24.2	25.6
140°	1.4	8.5	17.1	22.8	24.2
142.5°	1.4	7.1	15.6	21.3	22.8
145°	1.4	7.1	14.2	19.9	21.3
147.5°	1.4	7.1	12.8	18.5	19.9
150°	1.4	5.7	11.4	17.1	18.5
152.5°	1.4	5.7	10.0	15.6	17.1
155°	1.4	5.7	10.0	14.2	15.6
157.5°	1.4	4.3	8.5	11.4	14.2
160°	1.4	4.3	7.1	10.0	12.8
162.5°	1.4	4.3	7.1	8.5	10.0
165°	1.4	2.8	5.7	7.1	8.5
167.5°	1.4	2.8	4.3	5.7	7.1
170°	1.4	2.8	4.3	4.3	5.7
172.5°	1.4	2.8	2.8	2.8	2.8
175°	2.8	2.8	2.8	2.8	1.4
177.5°	2.8	2.8	2.8	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)