

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: P566259

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566259
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-L935-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

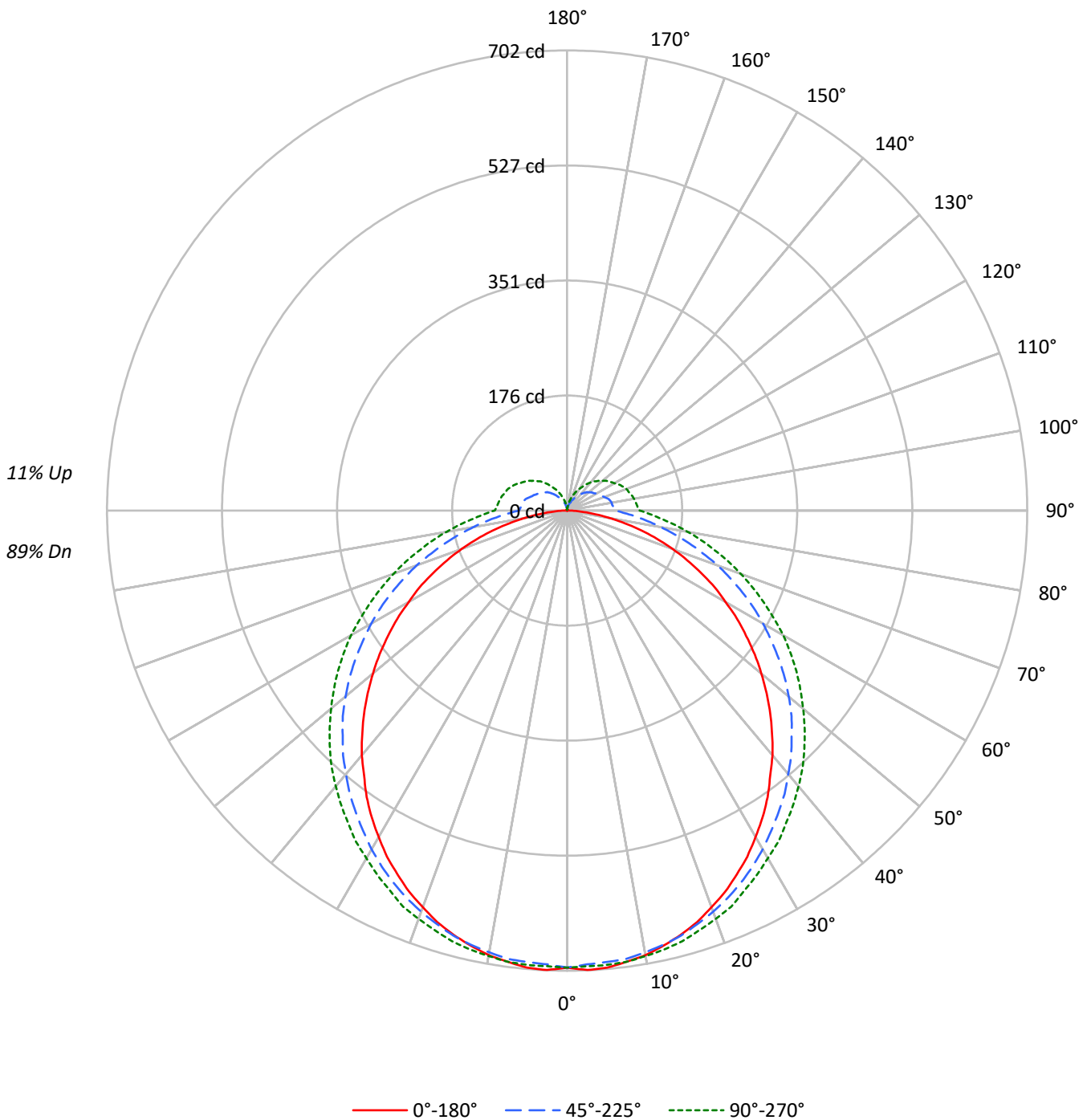
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2482.0 lumens
Efficiency: N/A
Efficacy: 127.3 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_{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	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°	7505	7505	7505
5°	7537	7157	7104
10°	7471	6872	6748
15°	7383	6596	6428
20°	7267	6309	6109
25°	7135	6035	5796
30°	6979	5752	5496
35°	6809	5468	5216
40°	6616	5191	4948
45°	6407	4913	4674
50°	6169	4628	4387
55°	5907	4309	4104
60°	5600	3977	3806
65°	5277	3619	3466
70°	4832	3237	3132
75°	4243	2792	2777
80°	3314	2344	2423
85°	2167	1926	2060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	2.7
10°-20°	190.3	7.7
20°-30°	289.4	11.7
30°-40°	351.3	14.2
40°-50°	371.2	15.0
50°-60°	347.4	14.0
60°-70°	285.0	11.5
70°-80°	196.1	7.9
80°-90°	107.4	4.3
90°-100°	69.1	2.8
100°-110°	62.0	2.5
110°-120°	51.3	2.1
120°-130°	39.5	1.6
130°-140°	27.8	1.1
140°-150°	16.7	0.7
150°-160°	8.0	0.3
160°-170°	2.6	0.1
170°-180°	0.3	0.0
0°-30°	546.0	22.0
0°-40°	897.3	36.2
0°-60°	1616.0	65.1
0°-90°	2204.4	88.8
90°-120°	182.5	7.4
90°-150°	266.6	10.7
90°-180°	278.0	11.2
0°-180°	2482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	700	699	691	697	696	66
15°	670	673	671	680	680	189
25°	612	620	627	640	640	282
35°	533	546	562	578	582	333
45°	438	459	484	506	512	338
55°	334	361	394	418	427	298
65°	226	256	295	322	331	224
75°	118	150	193	223	233	124
85°	26	62	105	134	144	30
90°	0	34	73	101	111	2
95°	0	33	70	96	106	0
105°	0	27	66	91	99	1
115°	1	24	56	80	91	1
125°	1	20	47	69	78	1
135°	1	16	39	56	63	1
145°	1	12	27	43	47	1
155°	1	7	17	27	32	1
165°	1	4	9	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°	697.2	697.2	697.2	697.2	697.2
2.5°	701.5	700.1	692.9	698.6	695.8
5°	700.1	698.6	691.4	697.2	695.8
7.5°	694.3	694.3	690.0	695.8	694.3
10°	688.6	688.6	684.3	691.4	690.0
12.5°	679.9	681.4	678.5	687.1	685.7
15°	669.9	672.8	671.3	679.9	679.9
17.5°	658.4	661.3	661.3	671.3	671.3
20°	644.0	648.3	651.2	662.7	662.7
22.5°	629.6	635.4	639.7	649.8	654.1
25°	612.4	619.6	626.8	639.7	639.7
27.5°	595.1	603.8	612.4	625.3	626.8
30°	575.0	585.1	596.6	609.5	612.4
32.5°	554.9	567.8	579.3	595.1	599.4
35°	533.3	546.3	562.1	577.9	582.2
37.5°	508.9	524.7	544.8	562.1	566.4
40°	487.3	504.6	524.7	544.8	549.1
42.5°	462.9	481.6	506.0	524.7	531.9
45°	438.4	458.6	484.4	506.0	511.8
47.5°	412.6	435.6	464.3	484.4	491.6
50°	386.7	411.1	441.3	464.3	470.1
52.5°	360.8	386.7	418.3	441.3	448.5
55°	333.5	360.8	393.9	418.3	426.9
57.5°	307.6	334.9	369.4	395.3	403.9
60°	278.9	310.5	345.0	370.9	380.9
62.5°	254.4	283.2	320.6	346.4	355.1
65°	225.7	255.9	294.7	322.0	330.6
67.5°	198.4	230.0	268.8	297.6	306.2
70°	171.1	202.7	244.4	271.7	281.8
72.5°	143.8	176.8	217.1	247.3	257.3
75°	117.9	149.5	192.6	222.8	232.9
77.5°	90.6	125.1	168.2	198.4	209.9
80°	66.1	102.1	145.2	175.4	186.9
82.5°	44.6	80.5	123.6	153.8	165.3
85°	25.9	61.8	104.9	133.7	143.8
87.5°	12.9	47.4	87.7	116.4	126.5
90°	0.0	34.5	73.3	100.6	110.7
92.5°	0.0	33.1	71.9	97.8	107.8
95°	0.0	33.1	70.4	96.3	106.4
97.5°	0.0	31.6	69.0	96.3	104.9
100°	0.0	30.2	69.0	94.9	103.5
102.5°	0.0	28.8	67.6	93.4	102.1
105°	0.0	27.3	66.1	90.6	99.2
107.5°	1.4	27.3	63.3	89.1	97.8
110°	1.4	25.9	60.4	87.7	96.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	24.4	57.5	84.8	93.4
115°	1.4	24.4	56.1	80.5	90.6
117.5°	1.4	23.0	53.2	77.6	87.7
120°	1.4	23.0	51.8	74.8	83.4
122.5°	1.4	21.6	48.9	71.9	80.5
125°	1.4	20.1	47.4	69.0	77.6
127.5°	1.4	18.7	46.0	66.1	74.8
130°	1.4	17.3	43.1	63.3	70.4
132.5°	1.4	17.3	41.7	58.9	67.6
135°	1.4	15.8	38.8	56.1	63.3
137.5°	1.4	14.4	35.9	53.2	60.4
140°	1.4	12.9	33.1	50.3	56.1
142.5°	1.4	12.9	30.2	46.0	51.8
145°	1.4	11.5	27.3	43.1	47.4
147.5°	1.4	10.1	24.4	38.8	43.1
150°	1.4	10.1	21.6	34.5	38.8
152.5°	1.4	8.6	18.7	31.6	35.9
155°	1.4	7.2	17.3	27.3	31.6
157.5°	1.4	7.2	14.4	23.0	27.3
160°	1.4	5.8	12.9	18.7	23.0
162.5°	1.4	5.8	11.5	15.8	20.1
165°	1.4	4.3	8.6	12.9	15.8
167.5°	1.4	4.3	7.2	10.1	12.9
170°	1.4	2.9	5.8	7.2	10.1
172.5°	1.4	2.9	4.3	4.3	4.3
175°	1.4	1.4	2.9	2.9	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)