

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: P566230

Luminaire Tested: **4SNX-31SL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-31SL-FDL-UNV-L830-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

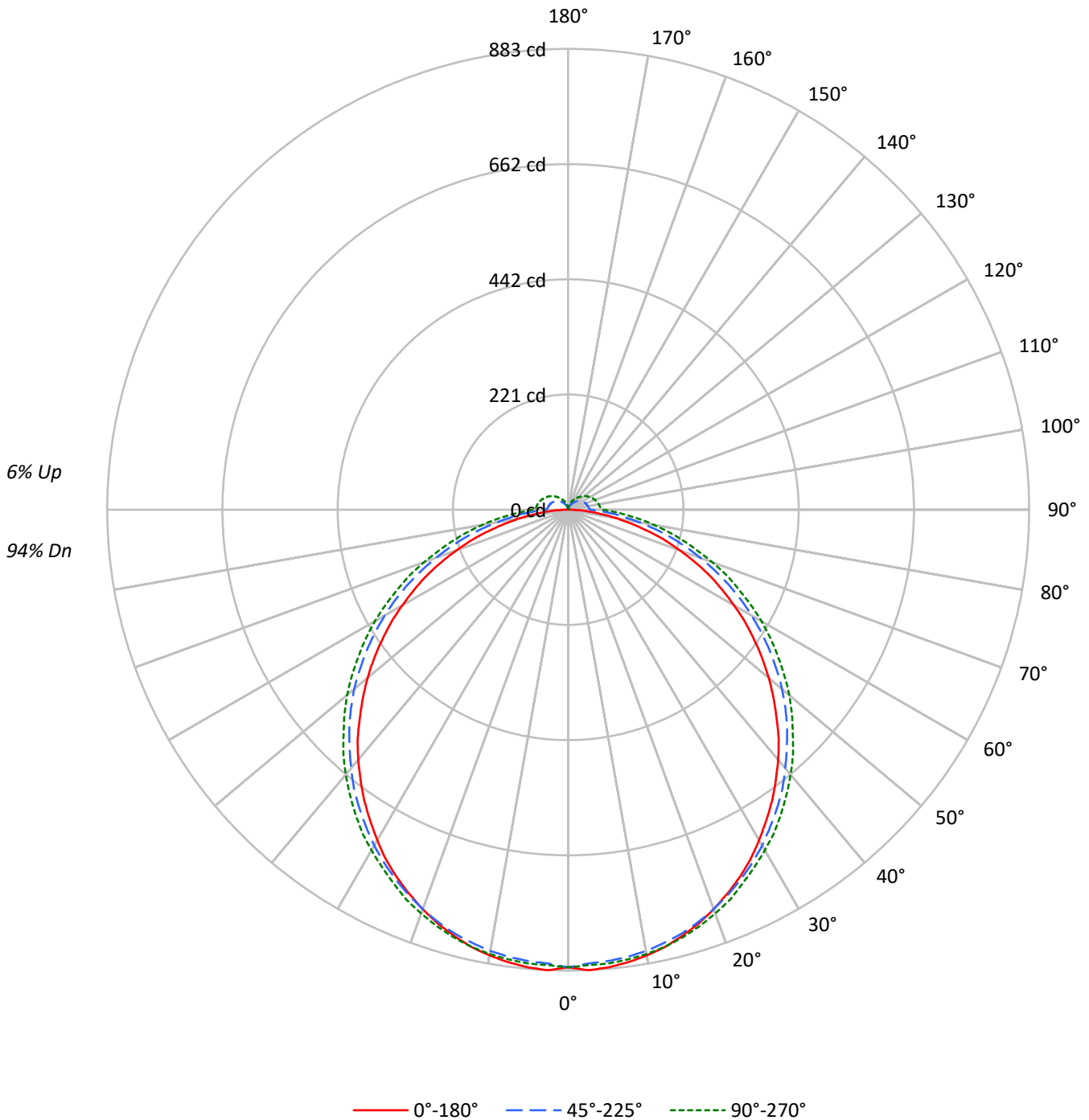
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2786.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94				
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77				
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64				
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53				
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45				
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39				
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34				
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30				
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27				
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24				
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9437	9437	9437
5°	9502	9280	9295
10°	9462	9180	9178
15°	9391	9064	9047
20°	9295	8923	8892
25°	9184	8770	8710
30°	9034	8612	8542
35°	8881	8428	8365
40°	8714	8224	8168
45°	8503	8022	7937
50°	8298	7793	7727
55°	8046	7509	7434
60°	7763	7183	7145
65°	7461	6794	6749
70°	6942	6308	6336
75°	6321	5734	5843
80°	5402	4973	5299
85°	4249	4313	4655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.0
10°-20°	238.6	8.6
20°-30°	361.6	13.0
30°-40°	436.5	15.7
40°-50°	455.8	16.4
50°-60°	418.7	15.0
60°-70°	331.1	11.9
70°-80°	209.6	7.5
80°-90°	90.1	3.2
90°-100°	39.7	1.4
100°-110°	35.5	1.3
110°-120°	30.0	1.1
120°-130°	23.4	0.8
130°-140°	16.2	0.6
140°-150°	9.7	0.3
150°-160°	4.7	0.2
160°-170°	1.6	0.1
170°-180°	0.2	0.0
0°-30°	683.3	24.5
0°-40°	1119.8	40.2
0°-60°	1994.3	71.6
0°-90°	2625.0	94.2
90°-120°	105.1	3.8
90°-150°	154.4	5.5
90°-180°	161.0	5.8
0°-180°	2786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	880	878	868	876	873	84
15°	845	845	841	850	848	238
25°	777	780	782	792	790	358
35°	681	689	698	708	711	426
45°	564	578	593	604	608	436
55°	435	453	472	487	490	389
65°	300	316	338	354	360	295
75°	158	177	202	220	228	167
85°	38	59	85	103	110	43
90°	2	21	43	61	67	3
95°	0	18	40	55	61	0
105°	0	17	37	52	57	1
115°	0	14	34	47	52	1
125°	1	13	28	40	45	1
135°	1	10	23	32	36	1
145°	1	7	16	24	27	1
155°	1	5	10	15	18	0
165°	2	4	5	7	10	0
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.7	876.7	876.7	876.7	876.7
2.5°	883.1	880.2	870.3	877.2	873.7
5°	880.2	877.7	868.3	875.7	872.8
7.5°	874.7	872.8	864.4	872.3	869.3
10°	867.3	865.8	858.4	866.3	864.4
12.5°	858.0	857.5	850.1	858.9	857.5
15°	845.1	845.1	840.7	849.6	848.1
17.5°	831.3	831.8	828.4	837.7	836.7
20°	814.5	817.0	814.5	824.4	823.4
22.5°	796.3	799.7	798.8	808.6	809.1
25°	777.0	780.5	781.5	791.8	790.4
27.5°	755.8	761.3	763.2	772.6	772.1
30°	731.2	738.6	743.0	750.9	753.4
32.5°	706.0	714.9	720.3	731.2	734.1
35°	680.8	688.7	697.6	708.5	710.9
37.5°	653.2	662.1	673.9	684.3	687.3
40°	625.6	635.4	646.8	658.1	662.6
42.5°	597.0	607.3	619.7	633.0	637.4
45°	564.4	578.2	593.0	604.4	608.3
47.5°	533.3	548.6	564.4	576.7	581.2
50°	501.7	518.0	534.8	546.2	553.1
52.5°	468.7	486.5	503.2	517.5	522.0
55°	435.1	452.9	471.7	486.9	490.4
57.5°	402.6	419.8	438.6	452.9	459.8
60°	367.1	385.8	406.0	420.3	427.7
62.5°	332.5	350.8	372.5	387.8	393.7
65°	299.5	316.2	338.4	354.2	359.7
67.5°	263.0	282.2	303.4	321.7	328.6
70°	226.9	245.2	269.4	286.6	293.5
72.5°	193.4	211.2	235.3	252.6	259.0
75°	157.9	176.6	202.3	219.5	227.9
77.5°	123.8	144.6	169.2	188.0	197.3
80°	92.3	110.5	137.2	157.9	166.3
82.5°	62.7	82.4	110.0	129.3	138.6
85°	38.5	59.2	84.9	103.1	109.5
87.5°	18.3	38.0	61.7	79.4	87.3
90°	2.5	21.2	43.4	60.7	67.1
92.5°	0.5	18.3	40.0	56.2	62.2
95°	0.5	18.3	39.5	55.3	61.2
97.5°	0.5	17.8	39.0	54.8	60.2
100°	0.5	17.3	38.5	53.8	59.7
102.5°	0.5	17.3	37.5	52.8	58.2
105°	0.5	16.8	37.0	51.8	57.2
107.5°	0.5	16.3	36.0	50.8	56.2
110°	0.5	15.3	35.5	49.3	54.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	14.8	34.5	48.3	53.3
115°	0.5	14.3	33.5	46.9	51.8
117.5°	0.5	13.8	32.1	45.4	50.3
120°	1.0	13.8	31.1	43.9	48.3
122.5°	1.0	13.3	29.6	41.9	46.4
125°	1.0	12.8	28.1	40.5	44.9
127.5°	1.0	12.3	26.6	38.5	42.4
130°	1.0	11.3	25.7	36.5	40.5
132.5°	1.0	10.9	24.2	34.0	38.0
135°	1.0	9.9	22.7	32.1	36.0
137.5°	1.0	9.4	21.2	30.1	33.5
140°	1.0	8.9	19.2	28.1	31.6
142.5°	1.0	7.9	17.8	26.1	29.1
145°	1.0	7.4	15.8	24.2	26.6
147.5°	1.0	6.4	14.3	22.2	24.7
150°	1.0	5.9	12.8	20.2	22.7
152.5°	1.0	5.4	11.3	17.8	20.2
155°	1.0	4.9	10.4	15.3	18.3
157.5°	1.0	4.4	8.9	13.3	16.3
160°	1.5	3.9	7.9	11.3	13.8
162.5°	1.5	3.5	6.4	9.4	12.3
165°	1.5	3.5	5.4	7.4	10.4
167.5°	1.5	3.0	4.4	5.9	8.4
170°	1.5	2.5	3.9	4.4	6.4
172.5°	1.5	2.0	3.0	3.0	3.5
175°	1.5	2.0	2.5	2.5	1.5
177.5°	1.5	1.5	1.5	1.5	1.0
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)