

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: P566235

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566235
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-L935-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

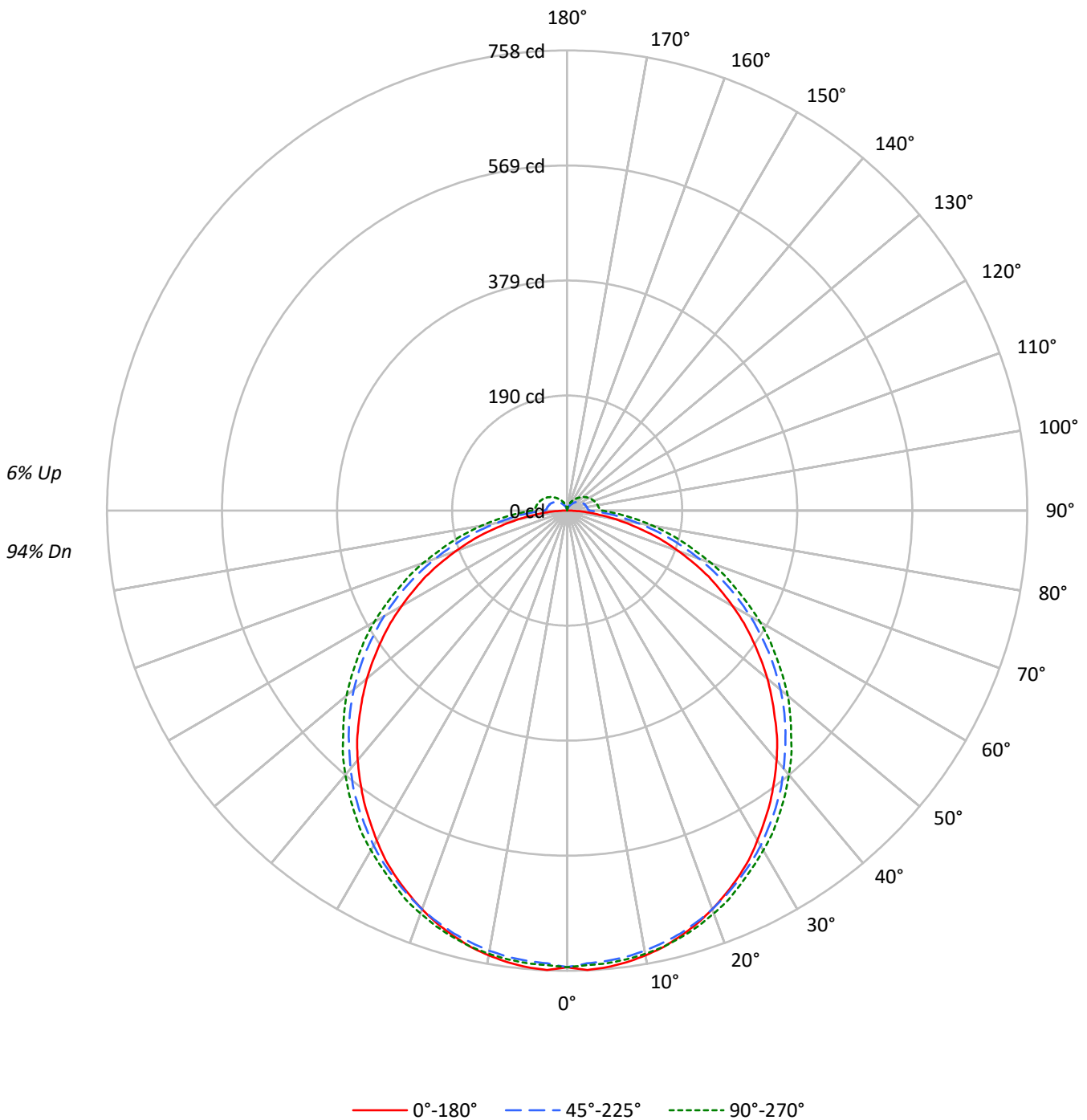
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2390.0 lumens
Efficiency: N/A
Efficacy: 122.6 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	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°	8096	8096	8096
5°	8151	7961	7973
10°	8117	7875	7873
15°	8057	7776	7760
20°	7974	7656	7629
25°	7879	7523	7472
30°	7749	7388	7328
35°	7620	7231	7177
40°	7476	7056	7007
45°	7295	6882	6808
50°	7119	6685	6628
55°	6903	6441	6377
60°	6659	6162	6129
65°	6400	5829	5788
70°	5957	5411	5436
75°	5420	4918	5013
80°	4630	4266	4544
85°	3642	3698	3996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.0
10°-20°	204.7	8.6
20°-30°	310.2	13.0
30°-40°	374.4	15.7
40°-50°	391.0	16.4
50°-60°	359.2	15.0
60°-70°	284.1	11.9
70°-80°	179.8	7.5
80°-90°	77.3	3.2
90°-100°	34.0	1.4
100°-110°	30.4	1.3
110°-120°	25.7	1.1
120°-130°	20.0	0.8
130°-140°	13.9	0.6
140°-150°	8.3	0.3
150°-160°	4.1	0.2
160°-170°	1.4	0.1
170°-180°	0.2	0.0
0°-30°	586.2	24.5
0°-40°	960.6	40.2
0°-60°	1710.8	71.6
0°-90°	2251.9	94.2
90°-120°	90.2	3.8
90°-150°	132.4	5.5
90°-180°	138.0	5.8
0°-180°	2390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	755	753	745	751	749	72
15°	725	725	721	729	728	205
25°	667	670	670	679	678	307
35°	584	591	598	608	610	365
45°	484	496	509	518	522	374
55°	373	388	405	418	421	334
65°	257	271	290	304	308	253
75°	135	152	174	188	196	144
85°	33	51	73	88	94	36
90°	2	18	37	52	58	3
95°	0	16	34	47	52	0
105°	0	14	32	44	49	0
115°	0	12	29	40	44	0
125°	1	11	24	35	38	1
135°	1	8	20	28	31	1
145°	1	6	14	21	23	1
155°	1	4	9	13	16	0
165°	1	3	5	6	9	0
175°	1	2	2	2	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.1	752.1	752.1	752.1	752.1
2.5°	757.6	755.1	746.6	752.5	749.5
5°	755.1	752.9	744.9	751.2	748.7
7.5°	750.4	748.7	741.5	748.3	745.7
10°	744.0	742.8	736.4	743.2	741.5
12.5°	736.0	735.6	729.2	736.9	735.6
15°	725.0	725.0	721.2	728.8	727.5
17.5°	713.2	713.6	710.6	718.7	717.8
20°	698.8	700.9	698.8	707.2	706.4
22.5°	683.1	686.1	685.2	693.7	694.1
25°	666.6	669.6	670.4	679.3	678.0
27.5°	648.4	653.1	654.7	662.8	662.4
30°	627.2	633.6	637.4	644.2	646.3
32.5°	605.6	613.3	617.9	627.2	629.8
35°	584.1	590.8	598.5	607.8	609.9
37.5°	560.4	568.0	578.1	587.0	589.6
40°	536.7	545.1	554.9	564.6	568.4
42.5°	512.1	521.0	531.6	543.0	546.8
45°	484.2	496.0	508.7	518.5	521.8
47.5°	457.5	470.6	484.2	494.8	498.6
50°	430.4	444.4	458.8	468.5	474.4
52.5°	402.1	417.3	431.7	444.0	447.8
55°	373.3	388.5	404.6	417.7	420.7
57.5°	345.4	360.2	376.3	388.5	394.5
60°	314.9	331.0	348.3	360.6	366.9
62.5°	285.3	300.9	319.5	332.7	337.7
65°	256.9	271.3	290.3	303.9	308.5
67.5°	225.6	242.1	260.3	275.9	281.9
70°	194.7	210.3	231.1	245.9	251.8
72.5°	165.9	181.1	201.9	216.7	222.2
75°	135.4	151.5	173.5	188.3	195.5
77.5°	106.2	124.0	145.2	161.3	169.3
80°	79.1	94.8	117.7	135.4	142.6
82.5°	53.8	70.7	94.4	110.9	118.9
85°	33.0	50.8	72.8	88.5	94.0
87.5°	15.7	32.6	52.9	68.1	74.9
90°	2.1	18.2	37.2	52.1	57.6
92.5°	0.4	15.7	34.3	48.2	53.3
95°	0.4	15.7	33.9	47.4	52.5
97.5°	0.4	15.2	33.4	47.0	51.6
100°	0.4	14.8	33.0	46.1	51.2
102.5°	0.4	14.8	32.2	45.3	49.9
105°	0.4	14.4	31.7	44.4	49.1
107.5°	0.4	14.0	30.9	43.6	48.2
110°	0.4	13.1	30.5	42.3	47.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	12.7	29.6	41.5	45.7
115°	0.4	12.3	28.8	40.2	44.4
117.5°	0.4	11.9	27.5	38.9	43.2
120°	0.8	11.9	26.7	37.7	41.5
122.5°	0.8	11.4	25.4	36.0	39.8
125°	0.8	11.0	24.1	34.7	38.5
127.5°	0.8	10.6	22.9	33.0	36.4
130°	0.8	9.7	22.0	31.3	34.7
132.5°	0.8	9.3	20.7	29.2	32.6
135°	0.8	8.5	19.5	27.5	30.9
137.5°	0.8	8.0	18.2	25.8	28.8
140°	0.8	7.6	16.5	24.1	27.1
142.5°	0.8	6.8	15.2	22.4	25.0
145°	0.8	6.3	13.5	20.7	22.9
147.5°	0.8	5.5	12.3	19.0	21.2
150°	0.8	5.1	11.0	17.4	19.5
152.5°	0.8	4.7	9.7	15.2	17.4
155°	0.8	4.2	8.9	13.1	15.7
157.5°	0.8	3.8	7.6	11.4	14.0
160°	1.3	3.4	6.8	9.7	11.9
162.5°	1.3	3.0	5.5	8.0	10.6
165°	1.3	3.0	4.7	6.3	8.9
167.5°	1.3	2.5	3.8	5.1	7.2
170°	1.3	2.1	3.4	3.8	5.5
172.5°	1.3	1.7	2.5	2.5	3.0
175°	1.3	1.7	2.1	2.1	1.3
177.5°	1.3	1.3	1.3	1.3	0.8
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)