

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: P566234

Luminaire Tested: **4SNX-31SL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566234
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-L930-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

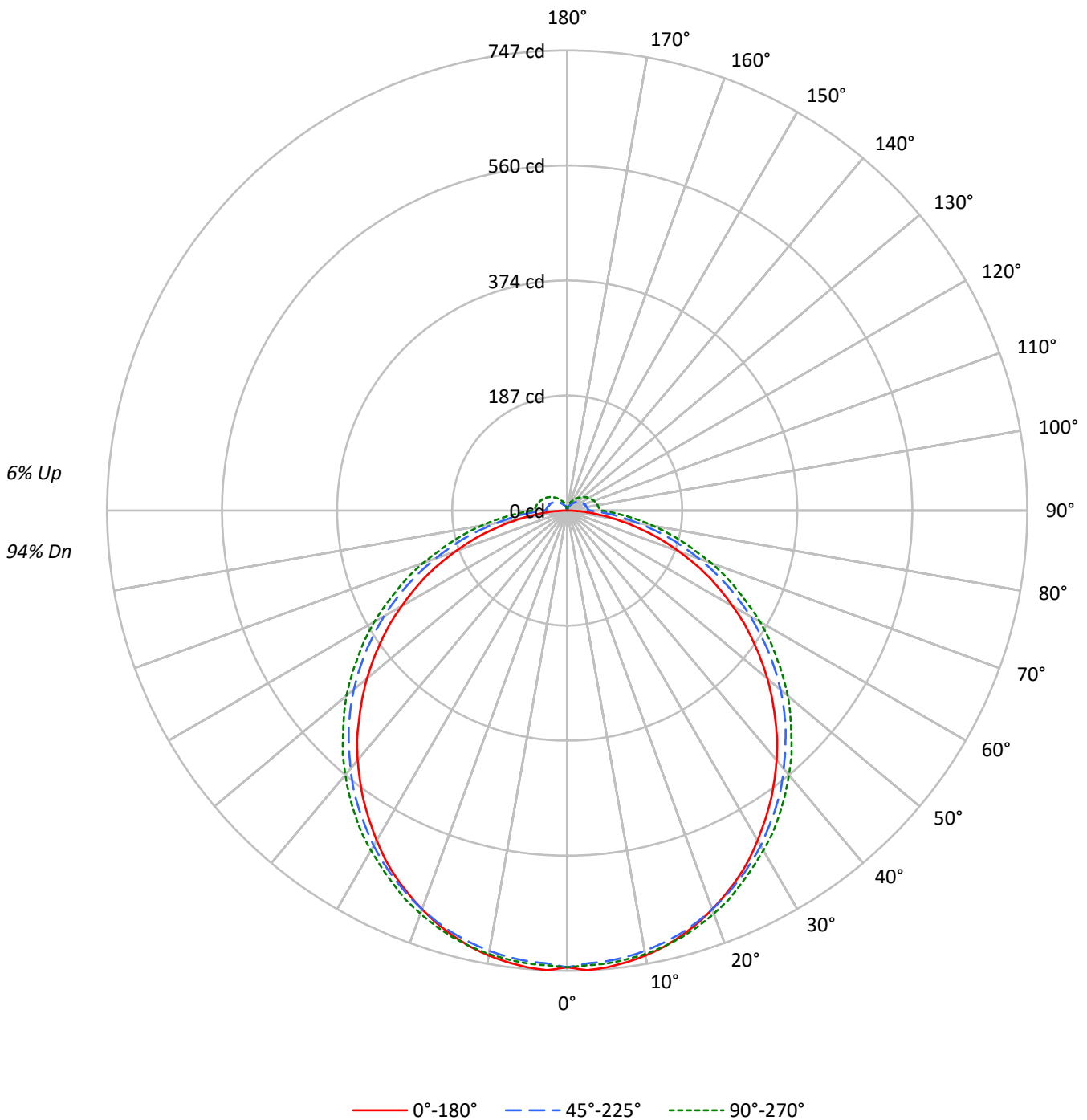
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2356.0 lumens
Efficiency: N/A
Efficacy: 120.8 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 (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

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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°	7980	7980	7980
5°	8035	7848	7861
10°	8002	7764	7762
15°	7942	7665	7651
20°	7860	7546	7520
25°	7766	7416	7366
30°	7639	7283	7223
35°	7511	7127	7074
40°	7369	6955	6907
45°	7191	6785	6712
50°	7018	6591	6534
55°	6805	6350	6286
60°	6564	6075	6042
65°	6308	5746	5706
70°	5871	5334	5358
75°	5344	4850	4943
80°	4565	4205	4480
85°	3587	3647	3937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.0
10°-20°	201.8	8.6
20°-30°	305.8	13.0
30°-40°	369.1	15.7
40°-50°	385.4	16.4
50°-60°	354.1	15.0
60°-70°	280.0	11.9
70°-80°	177.2	7.5
80°-90°	76.2	3.2
90°-100°	33.5	1.4
100°-110°	30.0	1.3
110°-120°	25.3	1.1
120°-130°	19.7	0.8
130°-140°	13.7	0.6
140°-150°	8.2	0.3
150°-160°	4.0	0.2
160°-170°	1.4	0.1
170°-180°	0.2	0.0
0°-30°	577.8	24.5
0°-40°	946.9	40.2
0°-60°	1686.5	71.6
0°-90°	2219.9	94.2
90°-120°	88.9	3.8
90°-150°	130.5	5.5
90°-180°	136.0	5.8
0°-180°	2356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	744	742	734	741	738	71
15°	715	715	711	718	717	202
25°	657	660	661	670	668	303
35°	576	582	590	599	601	360
45°	477	489	502	511	514	369
55°	368	383	399	412	415	329
65°	253	267	286	300	304	249
75°	134	149	171	186	193	141
85°	32	50	72	87	93	36
90°	2	18	37	51	57	3
95°	0	15	33	47	52	0
105°	0	14	31	44	48	0
115°	0	12	28	40	44	0
125°	1	11	24	34	38	1
135°	1	8	19	27	30	1
145°	1	6	13	20	22	1
155°	1	4	9	13	15	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°	741.4	741.4	741.4	741.4	741.4
2.5°	746.8	744.3	736.0	741.8	738.9
5°	744.3	742.2	734.3	740.6	738.1
7.5°	739.7	738.1	731.0	737.6	735.1
10°	733.5	732.2	726.0	732.6	731.0
12.5°	725.5	725.1	718.9	726.4	725.1
15°	714.7	714.7	710.9	718.4	717.2
17.5°	703.0	703.4	700.5	708.4	707.6
20°	688.8	690.9	688.8	697.2	696.3
22.5°	673.4	676.3	675.5	683.8	684.2
25°	657.1	660.0	660.9	669.6	668.4
27.5°	639.2	643.8	645.4	653.4	652.9
30°	618.3	624.6	628.3	635.0	637.1
32.5°	597.0	604.5	609.1	618.3	620.8
35°	575.8	582.4	589.9	599.1	601.2
37.5°	552.4	559.9	569.9	578.7	581.2
40°	529.0	537.4	547.0	556.6	560.3
42.5°	504.8	513.6	524.0	535.3	539.0
45°	477.3	489.0	501.5	511.1	514.4
47.5°	451.0	463.9	477.3	487.7	491.5
50°	424.3	438.1	452.3	461.9	467.7
52.5°	396.4	411.4	425.6	437.7	441.4
55°	368.0	383.0	398.9	411.8	414.7
57.5°	340.4	355.0	370.9	383.0	388.8
60°	310.4	326.3	343.4	355.5	361.7
62.5°	281.2	296.6	315.0	327.9	332.9
65°	253.2	267.4	286.2	299.6	304.1
67.5°	222.4	238.6	256.6	272.0	277.9
70°	191.9	207.4	227.8	242.4	248.2
72.5°	163.5	178.6	199.0	213.6	219.0
75°	133.5	149.4	171.1	185.7	192.8
77.5°	104.7	122.2	143.1	159.0	166.9
80°	78.0	93.5	116.0	133.5	140.6
82.5°	53.0	69.7	93.0	109.3	117.2
85°	32.5	50.1	71.8	87.2	92.6
87.5°	15.4	32.1	52.2	67.2	73.8
90°	2.1	17.9	36.7	51.3	56.7
92.5°	0.4	15.4	33.8	47.6	52.6
95°	0.4	15.4	33.4	46.7	51.7
97.5°	0.4	15.0	33.0	46.3	50.9
100°	0.4	14.6	32.5	45.5	50.5
102.5°	0.4	14.6	31.7	44.6	49.2
105°	0.4	14.2	31.3	43.8	48.4
107.5°	0.4	13.8	30.5	43.0	47.6
110°	0.4	12.9	30.0	41.7	46.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	12.5	29.2	40.9	45.1
115°	0.4	12.1	28.4	39.6	43.8
117.5°	0.4	11.7	27.1	38.4	42.6
120°	0.8	11.7	26.3	37.1	40.9
122.5°	0.8	11.3	25.0	35.5	39.2
125°	0.8	10.8	23.8	34.2	38.0
127.5°	0.8	10.4	22.5	32.5	35.9
130°	0.8	9.6	21.7	30.9	34.2
132.5°	0.8	9.2	20.4	28.8	32.1
135°	0.8	8.3	19.2	27.1	30.5
137.5°	0.8	7.9	17.9	25.5	28.4
140°	0.8	7.5	16.3	23.8	26.7
142.5°	0.8	6.7	15.0	22.1	24.6
145°	0.8	6.3	13.4	20.4	22.5
147.5°	0.8	5.4	12.1	18.8	20.9
150°	0.8	5.0	10.8	17.1	19.2
152.5°	0.8	4.6	9.6	15.0	17.1
155°	0.8	4.2	8.8	12.9	15.4
157.5°	0.8	3.8	7.5	11.3	13.8
160°	1.3	3.3	6.7	9.6	11.7
162.5°	1.3	2.9	5.4	7.9	10.4
165°	1.3	2.9	4.6	6.3	8.8
167.5°	1.3	2.5	3.8	5.0	7.1
170°	1.3	2.1	3.3	3.8	5.4
172.5°	1.3	1.7	2.5	2.5	2.9
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)