

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: P566261

Luminaire Tested: **4SNX-31SL-LW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566261
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-L950-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

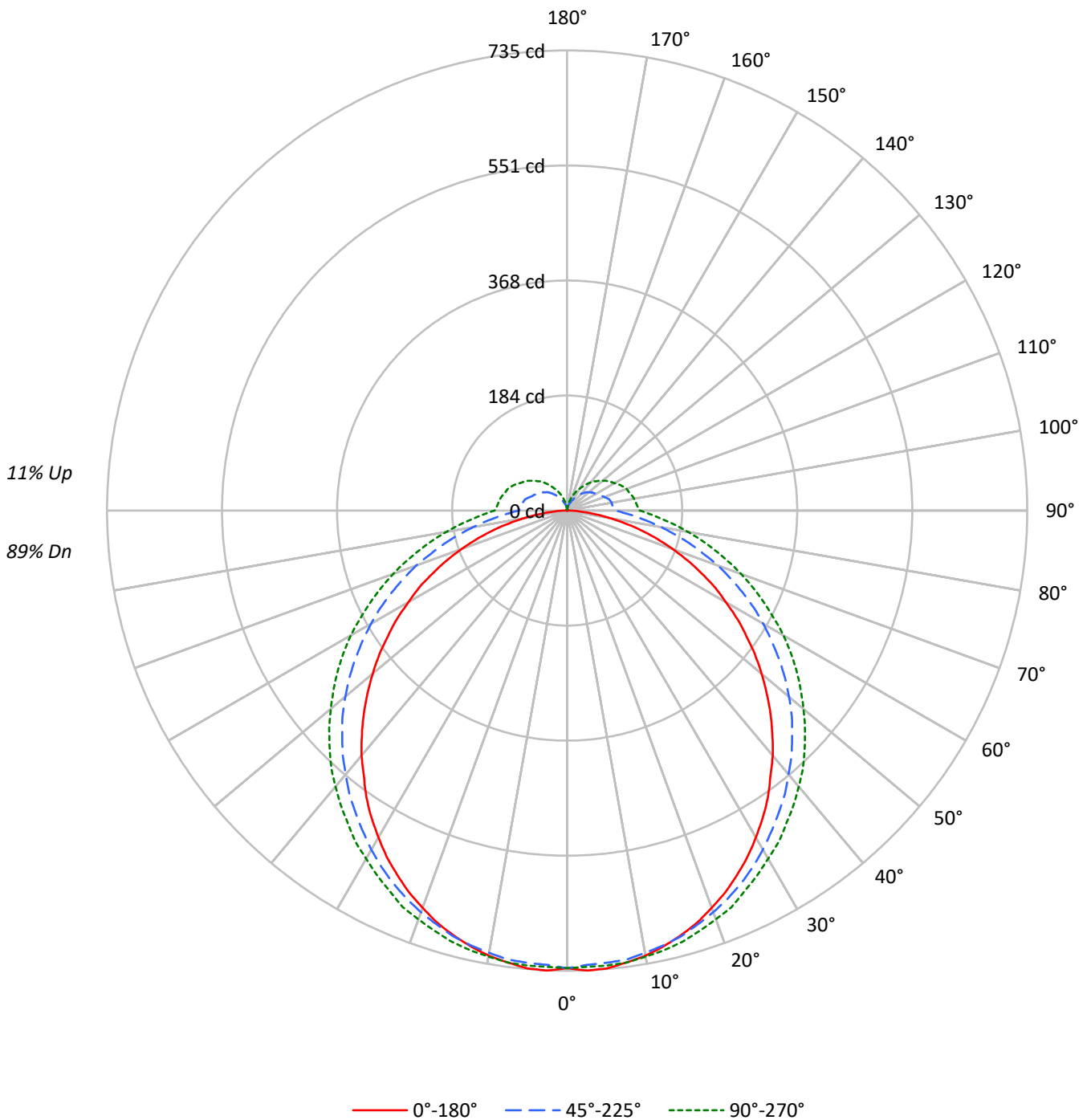
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2602.0 lumens
Efficiency: N/A
Efficacy: 133.4 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 (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	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°	7867	7867	7867
5°	7901	7504	7447
10°	7833	7204	7075
15°	7740	6915	6739
20°	7618	6614	6404
25°	7479	6327	6076
30°	7316	6030	5762
35°	7138	5732	5467
40°	6936	5442	5187
45°	6716	5151	4900
50°	6468	4852	4599
55°	6192	4517	4303
60°	5871	4169	3990
65°	5532	3793	3633
70°	5063	3393	3283
75°	4449	2926	2910
80°	3475	2456	2540
85°	2267	2020	2159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	2.7
10°-20°	199.5	7.7
20°-30°	303.4	11.7
30°-40°	368.3	14.2
40°-50°	389.2	15.0
50°-60°	364.2	14.0
60°-70°	298.8	11.5
70°-80°	205.5	7.9
80°-90°	112.6	4.3
90°-100°	72.5	2.8
100°-110°	65.0	2.5
110°-120°	53.8	2.1
120°-130°	41.5	1.6
130°-140°	29.1	1.1
140°-150°	17.5	0.7
150°-160°	8.4	0.3
160°-170°	2.8	0.1
170°-180°	0.3	0.0
0°-30°	572.4	22.0
0°-40°	940.7	36.2
0°-60°	1694.1	65.1
0°-90°	2311.0	88.8
90°-120°	191.4	7.4
90°-150°	279.5	10.7
90°-180°	291.0	11.2
0°-180°	2602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	734	732	725	731	729	70
15°	702	705	704	713	713	198
25°	642	650	657	671	671	296
35°	559	573	589	606	610	349
45°	460	481	508	530	536	354
55°	350	378	413	438	448	313
65°	237	268	309	338	347	234
75°	124	157	202	234	244	130
85°	27	65	110	140	151	31
90°	0	36	77	106	116	2
95°	0	35	74	101	112	0
105°	0	29	69	95	104	1
115°	2	26	59	84	95	1
125°	2	21	50	72	81	1
135°	2	17	41	59	66	1
145°	2	12	29	45	50	1
155°	2	8	18	29	33	1
165°	2	4	9	14	17	0
175°	2	2	3	3	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	730.9	730.9	730.9	730.9	730.9
2.5°	735.4	733.9	726.4	732.4	729.4
5°	733.9	732.4	724.9	730.9	729.4
7.5°	727.9	727.9	723.4	729.4	727.9
10°	721.9	721.9	717.3	724.9	723.4
12.5°	712.8	714.3	711.3	720.4	718.9
15°	702.3	705.3	703.8	712.8	712.8
17.5°	690.2	693.2	693.2	703.8	703.8
20°	675.1	679.7	682.7	694.7	694.7
22.5°	660.1	666.1	670.6	681.2	685.7
25°	642.0	649.5	657.1	670.6	670.6
27.5°	623.9	633.0	642.0	655.6	657.1
30°	602.8	613.4	625.4	639.0	642.0
32.5°	581.7	595.3	607.3	623.9	628.4
35°	559.1	572.7	589.2	605.8	610.3
37.5°	533.5	550.1	571.2	589.2	593.8
40°	510.9	529.0	550.1	571.2	575.7
42.5°	485.3	504.9	530.5	550.1	557.6
45°	459.6	480.7	507.9	530.5	536.5
47.5°	432.5	456.6	486.8	507.9	515.4
50°	405.4	431.0	462.7	486.8	492.8
52.5°	378.3	405.4	438.5	462.7	470.2
55°	349.6	378.3	412.9	438.5	447.6
57.5°	322.5	351.1	387.3	414.4	423.5
60°	292.4	325.5	361.7	388.8	399.4
62.5°	266.7	296.9	336.1	363.2	372.2
65°	236.6	268.3	308.9	337.6	346.6
67.5°	208.0	241.1	281.8	312.0	321.0
70°	179.3	212.5	256.2	284.8	295.4
72.5°	150.7	185.4	227.6	259.2	269.8
75°	123.6	156.7	201.9	233.6	244.1
77.5°	94.9	131.1	176.3	208.0	220.0
80°	69.3	107.0	152.2	183.9	195.9
82.5°	46.7	84.4	129.6	161.3	173.3
85°	27.1	64.8	110.0	140.2	150.7
87.5°	13.6	49.7	91.9	122.1	132.6
90°	0.0	36.2	76.9	105.5	116.0
92.5°	0.0	34.7	75.4	102.5	113.0
95°	0.0	34.7	73.8	101.0	111.5
97.5°	0.0	33.2	72.3	101.0	110.0
100°	0.0	31.6	72.3	99.5	108.5
102.5°	0.0	30.1	70.8	98.0	107.0
105°	0.0	28.6	69.3	94.9	104.0
107.5°	1.5	28.6	66.3	93.4	102.5
110°	1.5	27.1	63.3	91.9	101.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	25.6	60.3	88.9	98.0
115°	1.5	25.6	58.8	84.4	94.9
117.5°	1.5	24.1	55.8	81.4	91.9
120°	1.5	24.1	54.3	78.4	87.4
122.5°	1.5	22.6	51.2	75.4	84.4
125°	1.5	21.1	49.7	72.3	81.4
127.5°	1.5	19.6	48.2	69.3	78.4
130°	1.5	18.1	45.2	66.3	73.8
132.5°	1.5	18.1	43.7	61.8	70.8
135°	1.5	16.6	40.7	58.8	66.3
137.5°	1.5	15.1	37.7	55.8	63.3
140°	1.5	13.6	34.7	52.7	58.8
142.5°	1.5	13.6	31.6	48.2	54.3
145°	1.5	12.1	28.6	45.2	49.7
147.5°	1.5	10.5	25.6	40.7	45.2
150°	1.5	10.5	22.6	36.2	40.7
152.5°	1.5	9.0	19.6	33.2	37.7
155°	1.5	7.5	18.1	28.6	33.2
157.5°	1.5	7.5	15.1	24.1	28.6
160°	1.5	6.0	13.6	19.6	24.1
162.5°	1.5	6.0	12.1	16.6	21.1
165°	1.5	4.5	9.0	13.6	16.6
167.5°	1.5	4.5	7.5	10.5	13.6
170°	1.5	3.0	6.0	7.5	10.5
172.5°	1.5	3.0	4.5	4.5	4.5
175°	1.5	1.5	3.0	3.0	1.5
177.5°	1.5	1.5	1.5	1.5	1.5
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)