

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: P566257

Luminaire Tested: **4SNX-31SL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566257
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-L850-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

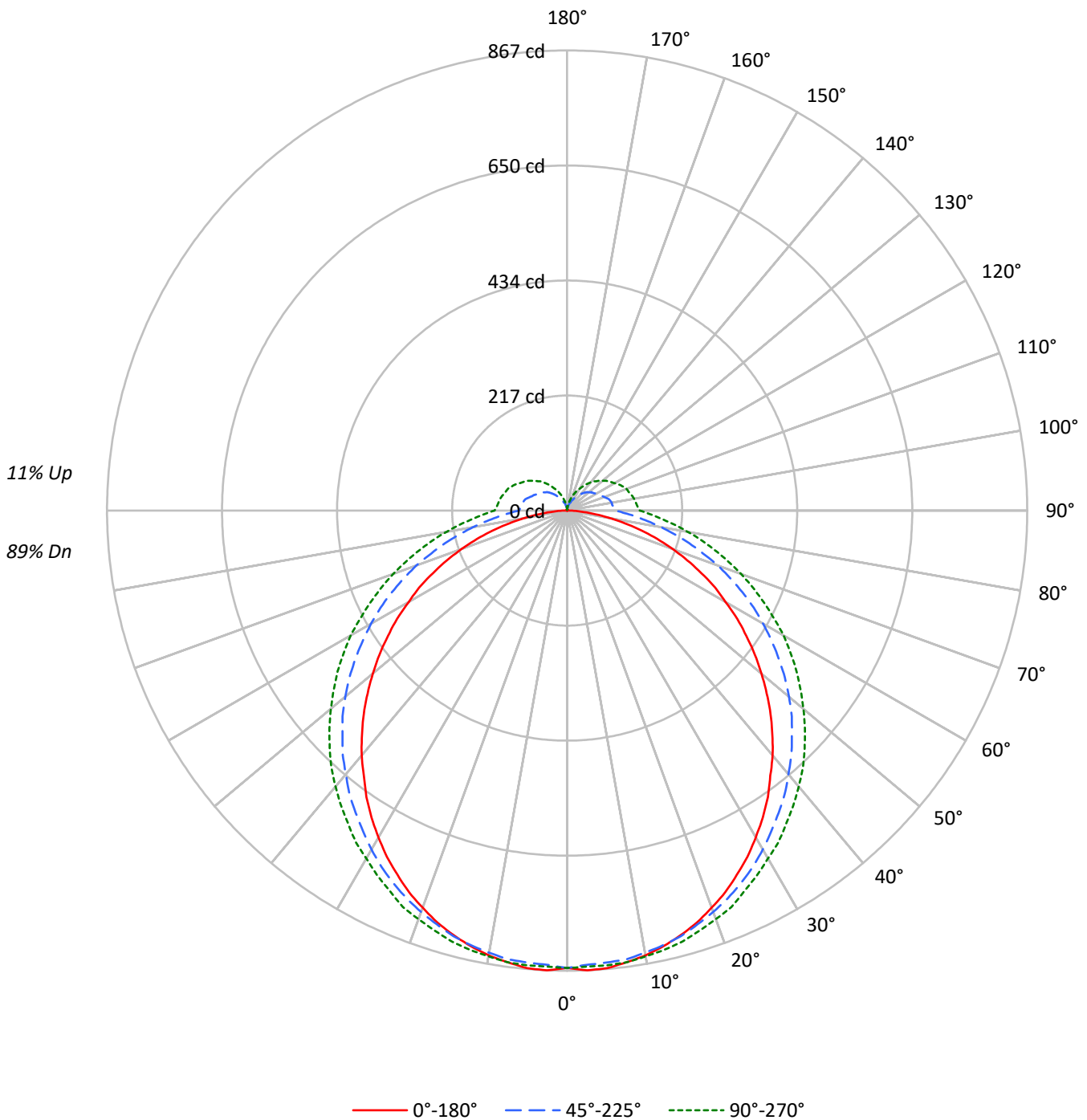
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3068.0 lumens
Efficiency: N/A
Efficacy: 157.3 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	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	77	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°	9276	9276	9276
5°	9317	8847	8780
10°	9235	8494	8342
15°	9125	8153	7947
20°	8983	7798	7551
25°	8819	7459	7164
30°	8627	7109	6794
35°	8417	6759	6447
40°	8179	6417	6116
45°	7921	6073	5778
50°	7626	5720	5423
55°	7301	5327	5073
60°	6921	4916	4705
65°	6523	4473	4284
70°	5973	4001	3871
75°	5244	3451	3433
80°	4096	2897	2995
85°	2677	2382	2546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	2.7
10°-20°	235.3	7.7
20°-30°	357.8	11.7
30°-40°	434.3	14.2
40°-50°	458.9	15.0
50°-60°	429.4	14.0
60°-70°	352.3	11.5
70°-80°	242.3	7.9
80°-90°	132.7	4.3
90°-100°	85.5	2.8
100°-110°	76.7	2.5
110°-120°	63.5	2.1
120°-130°	48.9	1.6
130°-140°	34.3	1.1
140°-150°	20.7	0.7
150°-160°	9.9	0.3
160°-170°	3.3	0.1
170°-180°	0.4	0.0
0°-30°	674.9	22.0
0°-40°	1109.2	36.2
0°-60°	1997.5	65.1
0°-90°	2724.9	88.8
90°-120°	225.6	7.4
90°-150°	329.6	10.7
90°-180°	343.0	11.2
0°-180°	3068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	865	864	855	862	860	82
15°	828	832	830	840	840	233
25°	757	766	775	791	791	349
35°	659	675	695	714	720	412
45°	542	567	599	626	633	418
55°	412	446	487	517	528	369
65°	279	316	364	398	409	276
75°	146	185	238	275	288	153
85°	32	76	130	165	178	37
90°	0	43	91	124	137	2
95°	0	41	87	119	132	0
105°	0	34	82	112	123	1
115°	2	30	69	100	112	2
125°	2	25	59	85	96	2
135°	2	20	48	69	78	1
145°	2	14	34	53	59	1
155°	2	9	21	34	39	1
165°	2	5	11	16	20	1
175°	2	2	4	4	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.8	861.8	861.8	861.8	861.8
2.5°	867.1	865.4	856.5	863.6	860.0
5°	865.4	863.6	854.7	861.8	860.0
7.5°	858.3	858.3	852.9	860.0	858.3
10°	851.1	851.1	845.8	854.7	852.9
12.5°	840.5	842.3	838.7	849.4	847.6
15°	828.0	831.6	829.8	840.5	840.5
17.5°	813.8	817.4	817.4	829.8	829.8
20°	796.1	801.4	804.9	819.2	819.2
22.5°	778.3	785.4	790.7	803.2	808.5
25°	757.0	765.9	774.7	790.7	790.7
27.5°	735.6	746.3	757.0	773.0	774.7
30°	710.8	723.2	737.4	753.4	757.0
32.5°	685.9	701.9	716.1	735.6	741.0
35°	659.2	675.2	694.8	714.3	719.7
37.5°	629.0	648.6	673.5	694.8	700.1
40°	602.4	623.7	648.6	673.5	678.8
42.5°	572.2	595.3	625.5	648.6	657.5
45°	542.0	566.8	598.8	625.5	632.6
47.5°	510.0	538.4	573.9	598.8	607.7
50°	478.0	508.2	545.5	573.9	581.1
52.5°	446.0	478.0	517.1	545.5	554.4
55°	412.2	446.0	486.9	517.1	527.7
57.5°	380.3	414.0	456.7	488.7	499.3
60°	344.7	383.8	426.5	458.4	470.9
62.5°	314.5	350.1	396.3	428.2	438.9
65°	279.0	316.3	364.3	398.0	408.7
67.5°	245.2	284.3	332.3	367.8	378.5
70°	211.5	250.5	302.1	335.8	348.3
72.5°	177.7	218.6	268.3	305.6	318.1
75°	145.7	184.8	238.1	275.4	287.9
77.5°	111.9	154.6	207.9	245.2	259.4
80°	81.7	126.2	179.5	216.8	231.0
82.5°	55.1	99.5	152.8	190.1	204.3
85°	32.0	76.4	129.7	165.3	177.7
87.5°	16.0	58.6	108.4	143.9	156.4
90°	0.0	42.6	90.6	124.4	136.8
92.5°	0.0	40.9	88.8	120.8	133.3
95°	0.0	40.9	87.1	119.1	131.5
97.5°	0.0	39.1	85.3	119.1	129.7
100°	0.0	37.3	85.3	117.3	127.9
102.5°	0.0	35.5	83.5	115.5	126.2
105°	0.0	33.8	81.7	111.9	122.6
107.5°	1.8	33.8	78.2	110.2	120.8
110°	1.8	32.0	74.6	108.4	119.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	30.2	71.1	104.8	115.5
115°	1.8	30.2	69.3	99.5	111.9
117.5°	1.8	28.4	65.7	96.0	108.4
120°	1.8	28.4	64.0	92.4	103.1
122.5°	1.8	26.7	60.4	88.8	99.5
125°	1.8	24.9	58.6	85.3	96.0
127.5°	1.8	23.1	56.9	81.7	92.4
130°	1.8	21.3	53.3	78.2	87.1
132.5°	1.8	21.3	51.5	72.9	83.5
135°	1.8	19.5	48.0	69.3	78.2
137.5°	1.8	17.8	44.4	65.7	74.6
140°	1.8	16.0	40.9	62.2	69.3
142.5°	1.8	16.0	37.3	56.9	64.0
145°	1.8	14.2	33.8	53.3	58.6
147.5°	1.8	12.4	30.2	48.0	53.3
150°	1.8	12.4	26.7	42.6	48.0
152.5°	1.8	10.7	23.1	39.1	44.4
155°	1.8	8.9	21.3	33.8	39.1
157.5°	1.8	8.9	17.8	28.4	33.8
160°	1.8	7.1	16.0	23.1	28.4
162.5°	1.8	7.1	14.2	19.5	24.9
165°	1.8	5.3	10.7	16.0	19.5
167.5°	1.8	5.3	8.9	12.4	16.0
170°	1.8	3.6	7.1	8.9	12.4
172.5°	1.8	3.6	5.3	5.3	5.3
175°	1.8	1.8	3.6	3.6	1.8
177.5°	1.8	1.8	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)