

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: P566268

Luminaire Tested: **4SNX-31SL-SLW-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566268  
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-SLW-UNV-L940-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

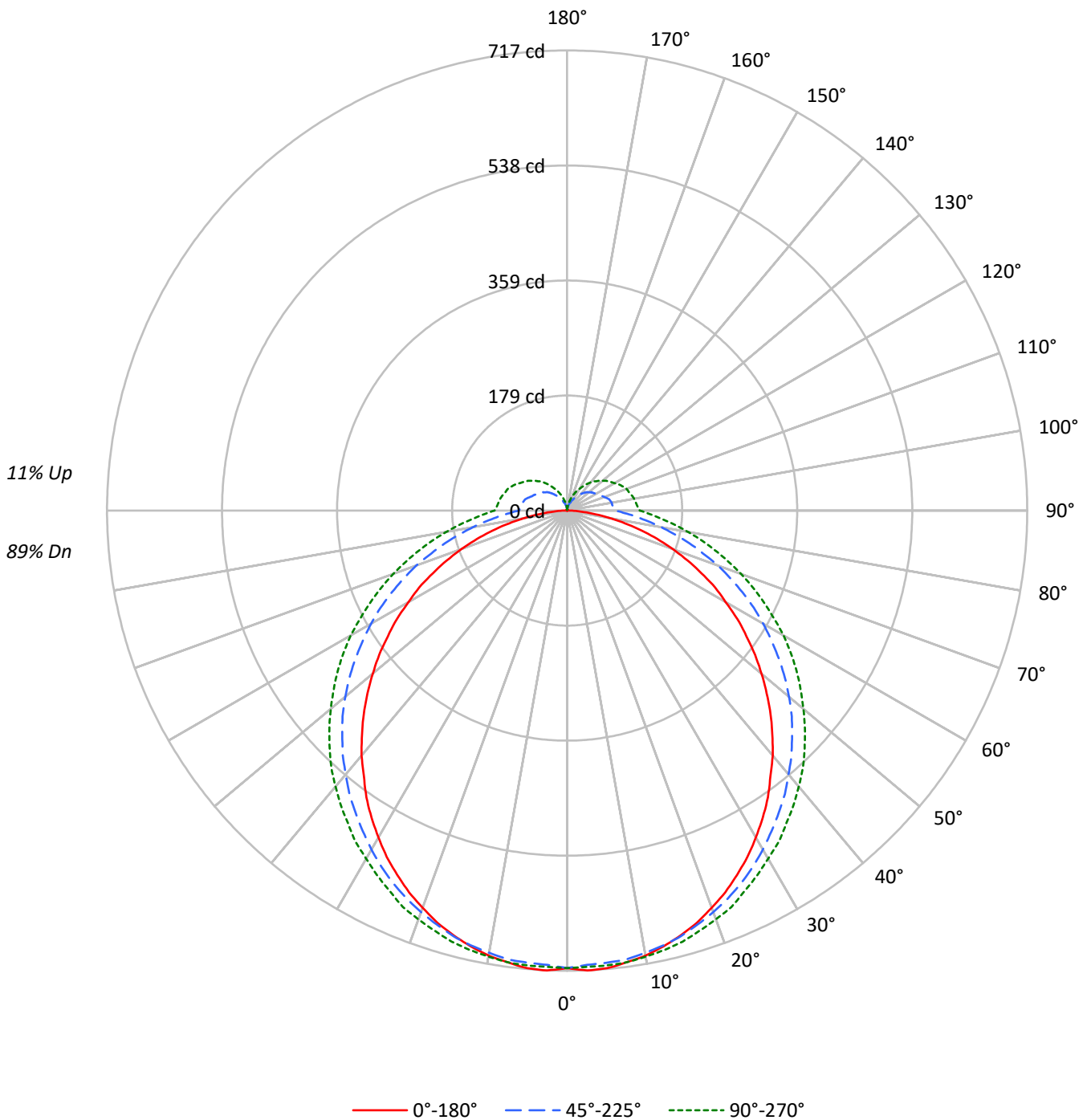
Lumens per Lamp: N/A  
Luminaire Lumens: 2538.0 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

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°	7674	7674	7674
5°	7721	7477	7471
10°	7668	7326	7286
15°	7591	7171	7115
20°	7486	6993	6926
25°	7366	6819	6727
30°	7222	6627	6531
35°	7064	6430	6347
40°	6882	6234	6171
45°	6686	6036	5980
50°	6461	5826	5768
55°	6215	5574	5558
60°	5927	5304	5324
65°	5628	5000	5030
70°	5207	4667	4742
75°	4651	4243	4423
80°	3749	3812	4109
85°	2645	3441	3786



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	2.7
10°-20°	194.6	7.7
20°-30°	296.0	11.7
30°-40°	359.3	14.2
40°-50°	379.6	15.0
50°-60°	355.2	14.0
60°-70°	291.5	11.5
70°-80°	200.5	7.9
80°-90°	109.8	4.3
90°-100°	70.7	2.8
100°-110°	63.4	2.5
110°-120°	52.5	2.1
120°-130°	40.4	1.6
130°-140°	28.4	1.1
140°-150°	17.1	0.7
150°-160°	8.2	0.3
160°-170°	2.7	0.1
170°-180°	0.3	0.0
0°-30°	558.3	22.0
0°-40°	917.6	36.2
0°-60°	1652.4	65.1
0°-90°	2254.2	88.8
90°-120°	186.7	7.4
90°-150°	272.6	10.7
90°-180°	284.0	11.2
0°-180°	2538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	716	714	707	713	712	68
15°	685	688	686	695	695	193
25°	626	634	641	654	654	289
35°	545	559	575	591	595	341
45°	448	469	495	517	523	346
55°	341	369	403	428	437	305
65°	231	262	301	329	338	229
75°	120	153	197	228	238	127
85°	26	63	107	137	147	31
90°	0	35	75	103	113	2
95°	0	34	72	98	109	0
105°	0	28	68	93	101	1
115°	2	25	57	82	93	1
125°	2	21	48	71	79	1
135°	2	16	40	57	65	1
145°	2	12	28	44	48	1
155°	2	7	18	28	32	1
165°	2	4	9	13	16	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°	712.9	712.9	712.9	712.9	712.9
2.5°	717.3	715.9	708.5	714.4	711.5
5°	715.9	714.4	707.1	712.9	711.5
7.5°	710.0	710.0	705.6	711.5	710.0
10°	704.1	704.1	699.7	707.1	705.6
12.5°	695.3	696.8	693.8	702.6	701.2
15°	685.0	687.9	686.5	695.3	695.3
17.5°	673.2	676.2	676.2	686.5	686.5
20°	658.5	663.0	665.9	677.7	677.7
22.5°	643.8	649.7	654.1	664.4	668.8
25°	626.2	633.6	640.9	654.1	654.1
27.5°	608.6	617.4	626.2	639.4	640.9
30°	588.0	598.3	610.0	623.3	626.2
32.5°	567.4	580.6	592.4	608.6	613.0
35°	545.4	558.6	574.8	590.9	595.3
37.5°	520.4	536.5	557.1	574.8	579.2
40°	498.3	516.0	536.5	557.1	561.5
42.5°	473.3	492.4	517.4	536.5	543.9
45°	448.3	468.9	495.4	517.4	523.3
47.5°	421.9	445.4	474.8	495.4	502.7
50°	395.4	420.4	451.3	474.8	480.7
52.5°	369.0	395.4	427.8	451.3	458.6
55°	341.0	369.0	402.8	427.8	436.6
57.5°	314.6	342.5	377.8	404.2	413.1
60°	285.2	317.5	352.8	379.2	389.5
62.5°	260.2	289.6	327.8	354.3	363.1
65°	230.8	261.7	301.3	329.3	338.1
67.5°	202.9	235.2	274.9	304.3	313.1
70°	174.9	207.3	249.9	277.8	288.1
72.5°	147.0	180.8	222.0	252.8	263.1
75°	120.5	152.9	197.0	227.8	238.1
77.5°	92.6	127.9	172.0	202.9	214.6
80°	67.6	104.4	148.5	179.3	191.1
82.5°	45.6	82.3	126.4	157.3	169.0
85°	26.5	63.2	107.3	136.7	147.0
87.5°	13.2	48.5	89.7	119.1	129.4
90°	0.0	35.3	75.0	102.9	113.2
92.5°	0.0	33.8	73.5	100.0	110.2
95°	0.0	33.8	72.0	98.5	108.8
97.5°	0.0	32.3	70.6	98.5	107.3
100°	0.0	30.9	70.6	97.0	105.8
102.5°	0.0	29.4	69.1	95.5	104.4
105°	0.0	27.9	67.6	92.6	101.4
107.5°	1.5	27.9	64.7	91.1	100.0
110°	1.5	26.5	61.7	89.7	98.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	25.0	58.8	86.7	95.5
115°	1.5	25.0	57.3	82.3	92.6
117.5°	1.5	23.5	54.4	79.4	89.7
120°	1.5	23.5	52.9	76.4	85.3
122.5°	1.5	22.0	50.0	73.5	82.3
125°	1.5	20.6	48.5	70.6	79.4
127.5°	1.5	19.1	47.0	67.6	76.4
130°	1.5	17.6	44.1	64.7	72.0
132.5°	1.5	17.6	42.6	60.3	69.1
135°	1.5	16.2	39.7	57.3	64.7
137.5°	1.5	14.7	36.7	54.4	61.7
140°	1.5	13.2	33.8	51.4	57.3
142.5°	1.5	13.2	30.9	47.0	52.9
145°	1.5	11.8	27.9	44.1	48.5
147.5°	1.5	10.3	25.0	39.7	44.1
150°	1.5	10.3	22.0	35.3	39.7
152.5°	1.5	8.8	19.1	32.3	36.7
155°	1.5	7.3	17.6	27.9	32.3
157.5°	1.5	7.3	14.7	23.5	27.9
160°	1.5	5.9	13.2	19.1	23.5
162.5°	1.5	5.9	11.8	16.2	20.6
165°	1.5	4.4	8.8	13.2	16.2
167.5°	1.5	4.4	7.3	10.3	13.2
170°	1.5	2.9	5.9	7.3	10.3
172.5°	1.5	2.9	4.4	4.4	4.4
175°	1.5	1.5	2.9	2.9	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)