

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: P566260

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566260  
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-L940-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

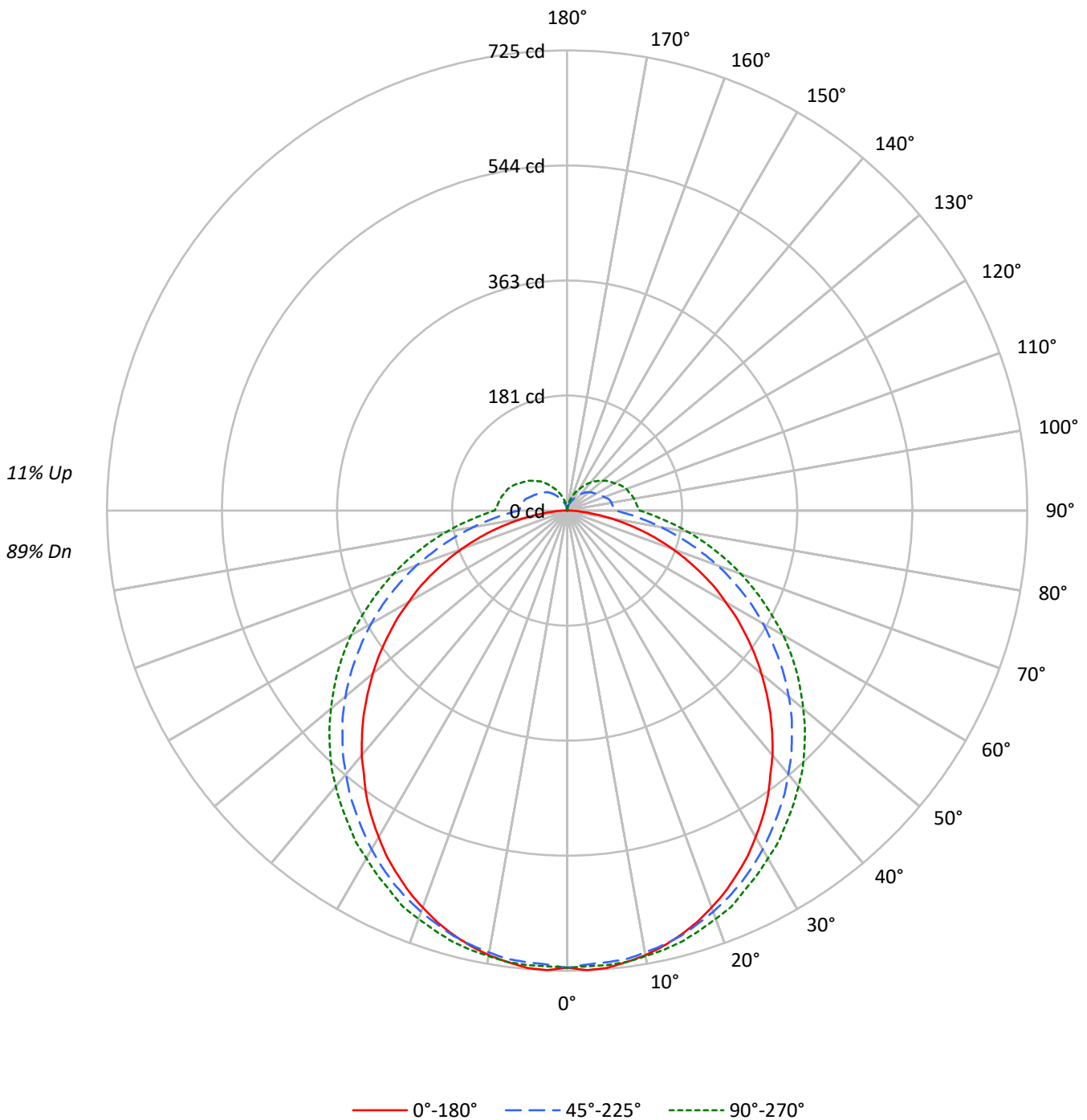
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2564.0 lumens  
Efficiency: N/A  
Efficacy: 131.5 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<sub>in</sub>): 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°	7752	7752	7752
5°	7786	7394	7338
10°	7718	7099	6971
15°	7626	6814	6641
20°	7507	6517	6311
25°	7370	6234	5987
30°	7209	5942	5677
35°	7034	5648	5388
40°	6834	5362	5112
45°	6618	5076	4829
50°	6373	4781	4531
55°	6102	4452	4240
60°	5785	4108	3931
65°	5450	3738	3581
70°	4990	3344	3235
75°	4384	2884	2869
80°	3424	2421	2504
85°	2234	1991	2128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.4	2.7
10°-20°	196.6	7.7
20°-30°	299.0	11.7
30°-40°	362.9	14.2
40°-50°	383.5	15.0
50°-60°	358.9	14.0
60°-70°	294.5	11.5
70°-80°	202.5	7.9
80°-90°	110.9	4.3
90°-100°	71.4	2.8
100°-110°	64.1	2.5
110°-120°	53.0	2.1
120°-130°	40.9	1.6
130°-140°	28.7	1.1
140°-150°	17.3	0.7
150°-160°	8.3	0.3
160°-170°	2.7	0.1
170°-180°	0.3	0.0
0°-30°	564.0	22.0
0°-40°	926.9	36.2
0°-60°	1669.3	65.1
0°-90°	2277.2	88.8
90°-120°	188.6	7.4
90°-150°	275.4	10.7
90°-180°	287.0	11.2
0°-180°	2564.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	723	722	714	720	719	69
15°	692	695	694	702	702	195
25°	633	640	648	661	661	292
35°	551	564	581	597	601	344
45°	453	474	500	523	529	349
55°	344	373	407	432	441	308
65°	233	264	304	333	342	231
75°	122	154	199	230	241	128
85°	27	64	108	138	148	31
90°	0	36	76	104	114	2
95°	0	34	73	100	110	0
105°	0	28	68	94	102	1
115°	2	25	58	83	94	1
125°	2	21	49	71	80	1
135°	2	16	40	58	65	1
145°	2	12	28	45	49	1
155°	2	7	18	28	33	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°	720.2	720.2	720.2	720.2	720.2
2.5°	724.7	723.2	715.8	721.7	718.7
5°	723.2	721.7	714.3	720.2	718.7
7.5°	717.3	717.3	712.8	718.7	717.3
10°	711.3	711.3	706.9	714.3	712.8
12.5°	702.4	703.9	700.9	709.8	708.4
15°	692.0	695.0	693.5	702.4	702.4
17.5°	680.1	683.1	683.1	693.5	693.5
20°	665.3	669.7	672.7	684.6	684.6
22.5°	650.4	656.4	660.8	671.2	675.7
25°	632.6	640.0	647.5	660.8	660.8
27.5°	614.8	623.7	632.6	646.0	647.5
30°	594.0	604.4	616.3	629.6	632.6
32.5°	573.2	586.6	598.5	614.8	619.3
35°	550.9	564.3	580.6	597.0	601.4
37.5°	525.7	542.0	562.8	580.6	585.1
40°	503.4	521.2	542.0	562.8	567.3
42.5°	478.2	497.5	522.7	542.0	549.5
45°	452.9	473.7	500.5	522.7	528.7
47.5°	426.2	450.0	479.7	500.5	507.9
50°	399.5	424.7	455.9	479.7	485.6
52.5°	372.7	399.5	432.1	455.9	463.3
55°	344.5	372.7	406.9	432.1	441.1
57.5°	317.8	346.0	381.6	408.4	417.3
60°	288.1	320.8	356.4	383.1	393.5
62.5°	262.8	292.5	331.2	357.9	366.8
65°	233.1	264.3	304.4	332.6	341.6
67.5°	204.9	237.6	277.7	307.4	316.3
70°	176.7	209.4	252.5	280.7	291.1
72.5°	148.5	182.7	224.2	255.4	265.8
75°	121.8	154.4	199.0	230.2	240.6
77.5°	93.6	129.2	173.7	204.9	216.8
80°	68.3	105.4	150.0	181.2	193.1
82.5°	46.0	83.2	127.7	158.9	170.8
85°	26.7	63.9	108.4	138.1	148.5
87.5°	13.4	49.0	90.6	120.3	130.7
90°	0.0	35.6	75.7	104.0	114.3
92.5°	0.0	34.2	74.3	101.0	111.4
95°	0.0	34.2	72.8	99.5	109.9
97.5°	0.0	32.7	71.3	99.5	108.4
100°	0.0	31.2	71.3	98.0	106.9
102.5°	0.0	29.7	69.8	96.5	105.4
105°	0.0	28.2	68.3	93.6	102.5
107.5°	1.5	28.2	65.3	92.1	101.0
110°	1.5	26.7	62.4	90.6	99.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	25.2	59.4	87.6	96.5
115°	1.5	25.2	57.9	83.2	93.6
117.5°	1.5	23.8	54.9	80.2	90.6
120°	1.5	23.8	53.5	77.2	86.1
122.5°	1.5	22.3	50.5	74.3	83.2
125°	1.5	20.8	49.0	71.3	80.2
127.5°	1.5	19.3	47.5	68.3	77.2
130°	1.5	17.8	44.6	65.3	72.8
132.5°	1.5	17.8	43.1	60.9	69.8
135°	1.5	16.3	40.1	57.9	65.3
137.5°	1.5	14.9	37.1	54.9	62.4
140°	1.5	13.4	34.2	52.0	57.9
142.5°	1.5	13.4	31.2	47.5	53.5
145°	1.5	11.9	28.2	44.6	49.0
147.5°	1.5	10.4	25.2	40.1	44.6
150°	1.5	10.4	22.3	35.6	40.1
152.5°	1.5	8.9	19.3	32.7	37.1
155°	1.5	7.4	17.8	28.2	32.7
157.5°	1.5	7.4	14.9	23.8	28.2
160°	1.5	5.9	13.4	19.3	23.8
162.5°	1.5	5.9	11.9	16.3	20.8
165°	1.5	4.5	8.9	13.4	16.3
167.5°	1.5	4.5	7.4	10.4	13.4
170°	1.5	3.0	5.9	7.4	10.4
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)