

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: P566232

Luminaire Tested: **4SNX-31SL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566232  
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-L840-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

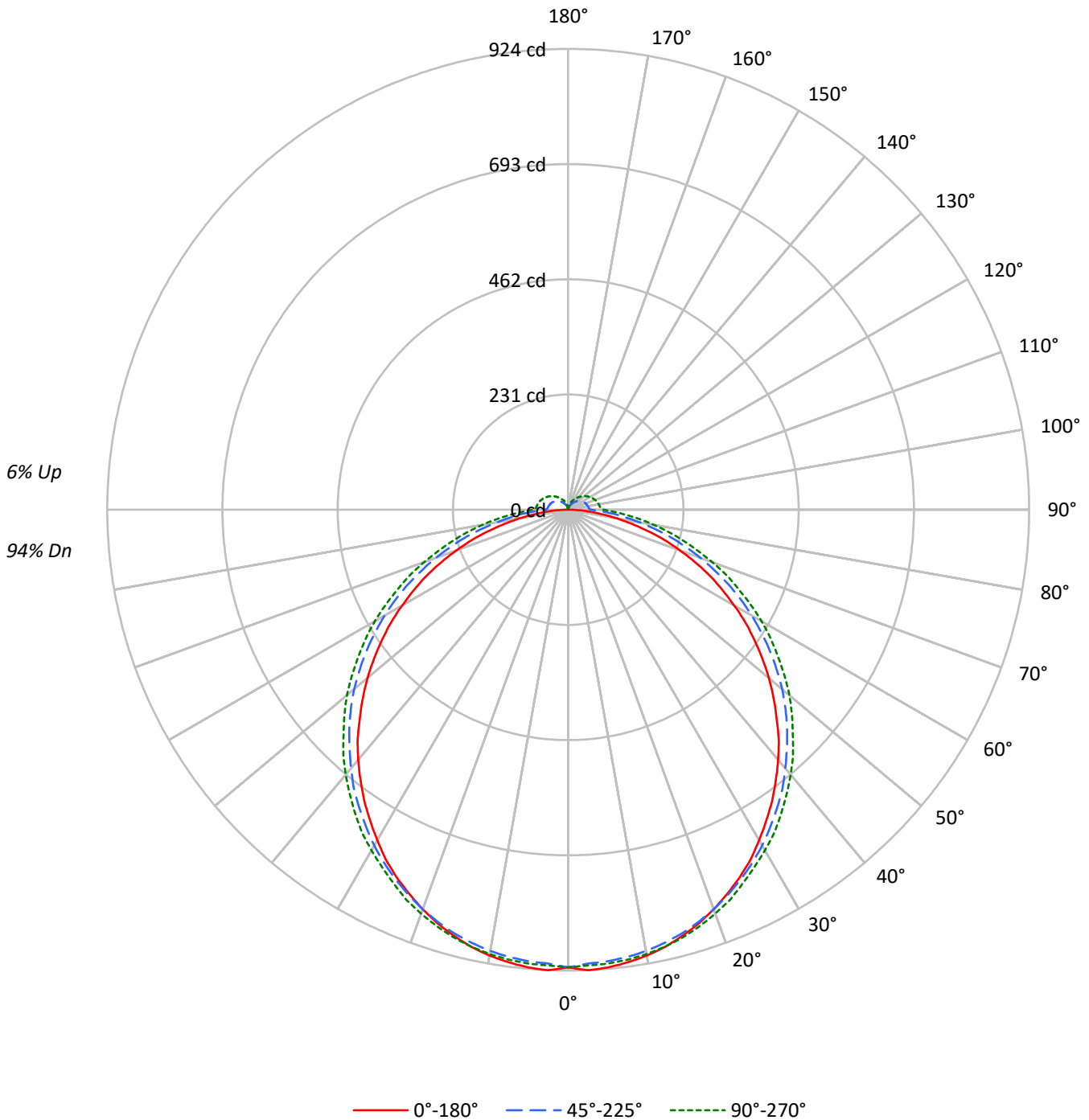
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2916.0 lumens  
Efficiency: N/A  
Efficacy: 149.5 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°	9877	9877	9877
5°	9945	9713	9729
10°	9904	9608	9606
15°	9830	9487	9469
20°	9728	9339	9307
25°	9613	9178	9116
30°	9455	9014	8940
35°	9296	8822	8756
40°	9121	8608	8549
45°	8899	8397	8308
50°	8687	8157	8088
55°	8421	7859	7781
60°	8124	7519	7479
65°	7808	7112	7062
70°	7267	6601	6631
75°	6613	6000	6118
80°	5654	5205	5545
85°	4448	4511	4872



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	3.0
10°-20°	249.7	8.6
20°-30°	378.4	13.0
30°-40°	456.8	15.7
40°-50°	477.1	16.4
50°-60°	438.3	15.0
60°-70°	346.6	11.9
70°-80°	219.3	7.5
80°-90°	94.3	3.2
90°-100°	41.5	1.4
100°-110°	37.1	1.3
110°-120°	31.4	1.1
120°-130°	24.4	0.8
130°-140°	16.9	0.6
140°-150°	10.2	0.3
150°-160°	5.0	0.2
160°-170°	1.7	0.1
170°-180°	0.3	0.0
0°-30°	715.2	24.5
0°-40°	1172.0	40.2
0°-60°	2087.3	71.6
0°-90°	2747.5	94.2
90°-120°	110.0	3.8
90°-150°	161.5	5.5
90°-180°	168.0	5.8
0°-180°	2916.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	921	919	909	917	914	87
15°	885	885	880	889	888	250
25°	813	817	818	829	827	375
35°	713	721	730	742	744	445
45°	591	605	621	633	637	456
55°	455	474	494	510	513	407
65°	313	331	354	371	376	309
75°	165	185	212	230	239	175
85°	40	62	89	108	115	45
90°	3	22	45	64	70	3
95°	0	19	41	58	64	0
105°	0	18	39	54	60	1
115°	0	15	35	49	54	1
125°	1	13	29	42	47	1
135°	1	10	24	34	38	1
145°	1	8	16	25	28	1
155°	1	5	11	16	19	0
165°	2	4	6	8	11	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°	917.6	917.6	917.6	917.6	917.6
2.5°	924.3	921.2	910.9	918.1	914.5
5°	921.2	918.6	908.8	916.6	913.5
7.5°	915.5	913.5	904.7	913.0	909.9
10°	907.8	906.2	898.5	906.8	904.7
12.5°	898.0	897.5	889.7	899.0	897.5
15°	884.6	884.6	879.9	889.2	887.7
17.5°	870.1	870.6	867.0	876.8	875.8
20°	852.5	855.1	852.5	862.9	861.8
22.5°	833.4	837.1	836.0	846.3	846.9
25°	813.3	816.9	817.9	828.8	827.2
27.5°	791.1	796.8	798.8	808.7	808.1
30°	765.3	773.0	777.7	785.9	788.5
32.5°	738.9	748.2	753.9	765.3	768.4
35°	712.6	720.9	730.2	741.5	744.1
37.5°	683.7	693.0	705.4	716.2	719.3
40°	654.8	665.1	677.0	688.9	693.5
42.5°	624.8	635.7	648.6	662.5	667.2
45°	590.7	605.2	620.7	632.6	636.7
47.5°	558.2	574.2	590.7	603.7	608.3
50°	525.2	542.2	559.8	571.6	578.9
52.5°	490.6	509.2	526.7	541.7	546.3
55°	455.4	474.0	493.7	509.7	513.3
57.5°	421.4	439.4	459.1	474.0	481.3
60°	384.2	403.8	425.0	440.0	447.7
62.5°	348.0	367.1	389.9	405.9	412.1
65°	313.4	331.0	354.2	370.8	376.4
67.5°	275.2	295.4	317.6	336.7	343.9
70°	237.5	256.6	281.9	300.0	307.2
72.5°	202.4	221.0	246.3	264.4	271.1
75°	165.2	184.9	211.7	229.8	238.6
77.5°	129.6	151.3	177.1	196.7	206.6
80°	96.6	115.7	143.6	165.2	174.0
82.5°	65.6	86.2	115.2	135.3	145.1
85°	40.3	62.0	88.8	107.9	114.6
87.5°	19.1	39.8	64.5	83.1	91.4
90°	2.6	22.2	45.4	63.5	70.2
92.5°	0.5	19.1	41.8	58.9	65.1
95°	0.5	19.1	41.3	57.8	64.0
97.5°	0.5	18.6	40.8	57.3	63.0
100°	0.5	18.1	40.3	56.3	62.5
102.5°	0.5	18.1	39.2	55.3	60.9
105°	0.5	17.6	38.7	54.2	59.9
107.5°	0.5	17.0	37.7	53.2	58.9
110°	0.5	16.0	37.2	51.6	57.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	15.5	36.1	50.6	55.8
115°	0.5	15.0	35.1	49.1	54.2
117.5°	0.5	14.5	33.6	47.5	52.7
120°	1.0	14.5	32.5	46.0	50.6
122.5°	1.0	13.9	31.0	43.9	48.5
125°	1.0	13.4	29.4	42.3	47.0
127.5°	1.0	12.9	27.9	40.3	44.4
130°	1.0	11.9	26.9	38.2	42.3
132.5°	1.0	11.4	25.3	35.6	39.8
135°	1.0	10.3	23.8	33.6	37.7
137.5°	1.0	9.8	22.2	31.5	35.1
140°	1.0	9.3	20.1	29.4	33.0
142.5°	1.0	8.3	18.6	27.4	30.5
145°	1.0	7.7	16.5	25.3	27.9
147.5°	1.0	6.7	15.0	23.2	25.8
150°	1.0	6.2	13.4	21.2	23.8
152.5°	1.0	5.7	11.9	18.6	21.2
155°	1.0	5.2	10.8	16.0	19.1
157.5°	1.0	4.6	9.3	13.9	17.0
160°	1.5	4.1	8.3	11.9	14.5
162.5°	1.5	3.6	6.7	9.8	12.9
165°	1.5	3.6	5.7	7.7	10.8
167.5°	1.5	3.1	4.6	6.2	8.8
170°	1.5	2.6	4.1	4.6	6.7
172.5°	1.5	2.1	3.1	3.1	3.6
175°	1.5	2.1	2.6	2.6	1.5
177.5°	1.5	1.5	1.5	1.5	1.0
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)