

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: P566240

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-31SL-LC-UNV-L840-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

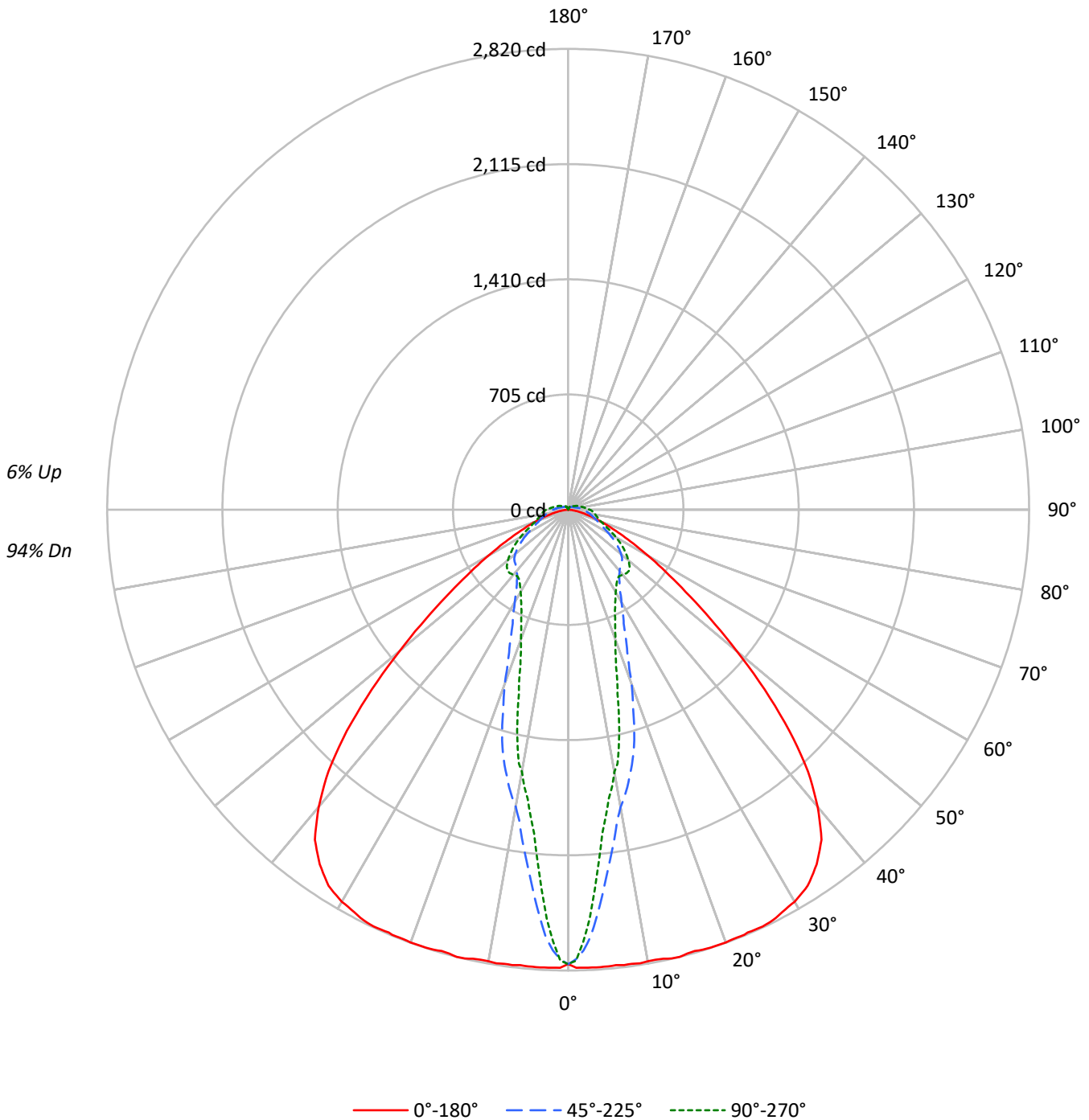
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3428.0 lumens
Efficiency: N/A
Efficacy: 175.8 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29934	29934	29934
5°	30204	24586	22008
10°	30441	18560	15927
15°	30996	15172	11029
20°	31796	10978	7789
25°	32787	7865	6128
30°	33625	6284	5219
35°	33824	5316	4674
40°	32246	4832	4686
45°	27984	4669	4813
50°	21469	4440	4492
55°	15558	3883	3986
60°	11288	3240	3370
65°	8216	2740	2762
70°	6052	2420	2382
75°	4301	2241	2220
80°	2818	2098	2186
85°	1322	2000	2189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	6.4
10°-20°	474.9	13.9
20°-30°	543.6	15.9
30°-40°	544.6	15.9
40°-50°	515.5	15.0
50°-60°	395.4	11.5
60°-70°	254.8	7.4
70°-80°	162.5	4.7
80°-90°	107.9	3.1
90°-100°	72.5	2.1
100°-110°	47.8	1.4
110°-120°	33.3	1.0
120°-130°	23.2	0.7
130°-140°	16.1	0.5
140°-150°	9.9	0.3
150°-160°	5.0	0.1
160°-170°	1.9	0.1
170°-180°	0.4	0.0
0°-30°	1237.2	36.1
0°-40°	1781.8	52.0
0°-60°	2692.7	78.5
0°-90°	3218.0	93.9
90°-120°	153.6	4.5
90°-150°	202.8	5.9
90°-180°	210.0	6.1
0°-180°	3428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2781	2781	2781	2781	2781	
5°	2806	2651	2375	2215	2156	268
15°	2813	2026	1544	1268	1166	798
25°	2814	1434	817	710	676	1297
35°	2649	798	546	529	522	1644
45°	1915	504	460	510	527	1456
55°	878	360	355	399	415	808
65°	351	227	223	255	264	361
75°	120	123	155	177	186	131
85°	16	56	109	142	153	22
90°	0	39	91	126	132	1
95°	0	28	76	104	109	0
105°	0	21	49	70	76	1
115°	2	18	37	51	54	2
125°	2	16	32	37	39	2
135°	2	12	25	30	32	1
145°	2	9	18	23	25	1
155°	2	5	10	16	18	1
165°	4	4	7	9	10	1
175°	4	4	4	4	2	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2781.0	2781.0	2781.0	2781.0	2781.0
1°	2803.8	2788.0	2751.1	2761.6	2759.9
2°	2803.8	2770.4	2698.4	2677.3	2645.7
3°	2805.6	2740.6	2617.6	2549.1	2505.1
4°	2805.6	2696.6	2498.1	2383.9	2327.7
5°	2805.6	2651.0	2375.1	2215.3	2155.6
6°	2802.0	2596.5	2250.4	2081.8	1992.2
7°	2807.3	2536.8	2138.0	1957.0	1886.8
8°	2805.6	2466.5	2034.3	1862.2	1784.9
9°	2810.8	2398.0	1921.9	1772.6	1714.6
10°	2805.6	2334.7	1848.1	1688.3	1628.5
11°	2805.6	2273.3	1795.4	1633.8	1582.8
12°	2809.1	2203.0	1737.4	1556.5	1486.2
13°	2817.9	2131.0	1670.7	1472.2	1389.6
14°	2819.6	2076.5	1609.2	1365.0	1278.9
15°	2812.6	2025.6	1544.2	1268.4	1166.5
16°	2809.1	1972.8	1466.9	1177.0	1085.7
17°	2816.1	1911.4	1379.1	1083.9	999.6
18°	2817.9	1855.1	1286.0	1013.7	939.9
19°	2817.9	1811.2	1210.4	948.7	885.4
20°	2817.9	1769.1	1133.1	899.5	845.0
21°	2814.3	1716.4	1045.3	848.5	802.8
22.5°	2816.1	1618.0	945.1	788.8	751.9
23°	2810.8	1593.4	920.5	773.0	734.3
24°	2812.6	1523.1	867.8	741.4	704.5
25°	2814.3	1433.5	816.9	709.7	676.4
26°	2810.8	1361.5	774.7	679.9	657.0
27°	2802.0	1303.5	744.9	655.3	634.2
28°	2789.7	1226.2	713.2	634.2	614.9
29°	2777.4	1138.4	681.6	611.4	597.3
30°	2770.4	1068.1	651.8	593.8	581.5
32.5°	2728.3	929.3	590.3	558.7	548.1
35°	2649.2	797.6	546.4	528.8	521.8
37.5°	2545.6	695.7	513.0	509.5	511.2
40°	2375.1	614.9	488.4	504.2	520.0
42.5°	2171.4	551.6	470.8	509.5	527.0
45°	1914.9	504.2	460.3	509.5	527.0
47.5°	1630.3	465.5	448.0	491.9	509.5
50°	1345.7	430.4	423.4	465.5	481.4
52.5°	1094.5	397.0	391.8	432.2	448.0
55°	878.4	360.1	354.9	398.8	414.6
57.5°	704.5	325.0	319.7	360.1	375.9
60°	562.2	289.9	281.1	321.5	337.3
62.5°	448.0	256.5	251.2	286.4	300.4
65°	351.4	226.6	223.1	254.7	263.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	277.6	198.5	200.3	226.6	237.2
70°	214.3	172.2	182.7	207.3	214.3
72.5°	161.6	145.8	168.6	189.7	198.5
75°	119.5	123.0	154.6	177.4	186.2
77.5°	82.6	101.9	142.3	166.9	175.7
80°	56.2	82.6	130.0	158.1	168.6
82.5°	33.4	68.5	119.5	149.3	161.6
85°	15.8	56.2	108.9	142.3	152.8
87.5°	5.3	45.7	98.4	135.3	144.1
90°	0.0	38.6	91.4	126.5	131.8
92.5°	0.0	33.4	82.6	115.9	119.5
95°	0.0	28.1	75.5	103.6	108.9
97.5°	0.0	26.4	70.3	93.1	100.1
100°	0.0	24.6	63.2	84.3	91.4
102.5°	0.0	21.1	56.2	75.5	82.6
105°	0.0	21.1	49.2	70.3	75.5
107.5°	1.8	19.3	45.7	63.2	70.3
110°	1.8	19.3	40.4	59.7	65.0
112.5°	1.8	19.3	38.6	54.5	61.5
115°	1.8	17.6	36.9	50.9	54.5
117.5°	1.8	17.6	35.1	45.7	49.2
120°	1.8	15.8	33.4	42.2	43.9
122.5°	1.8	15.8	31.6	38.6	40.4
125°	1.8	15.8	31.6	36.9	38.6
127.5°	1.8	14.1	29.9	35.1	35.1
130°	1.8	14.1	28.1	33.4	33.4
132.5°	1.8	12.3	26.4	31.6	33.4
135°	1.8	12.3	24.6	29.9	31.6
137.5°	1.8	10.5	22.8	28.1	29.9
140°	1.8	10.5	21.1	26.4	28.1
142.5°	1.8	8.8	19.3	24.6	26.4
145°	1.8	8.8	17.6	22.8	24.6
147.5°	1.8	8.8	15.8	21.1	22.8
150°	1.8	7.0	14.1	19.3	21.1
152.5°	1.8	7.0	12.3	17.6	19.3
155°	1.8	5.3	10.5	15.8	17.6
157.5°	1.8	5.3	10.5	14.1	15.8
160°	3.5	5.3	8.8	12.3	14.1
162.5°	1.8	3.5	8.8	10.5	12.3
165°	3.5	3.5	7.0	8.8	10.5
167.5°	3.5	3.5	5.3	7.0	8.8
170°	3.5	3.5	5.3	5.3	7.0
172.5°	3.5	3.5	3.5	5.3	3.5
175°	3.5	3.5	3.5	3.5	1.8
177.5°	3.5	3.5	3.5	3.5	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	3.5	3.5	3.5	3.5	3.5

(END OF REPORT)