

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: P566238

Luminaire Tested: **4SNX-31SL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566238
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-L830-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

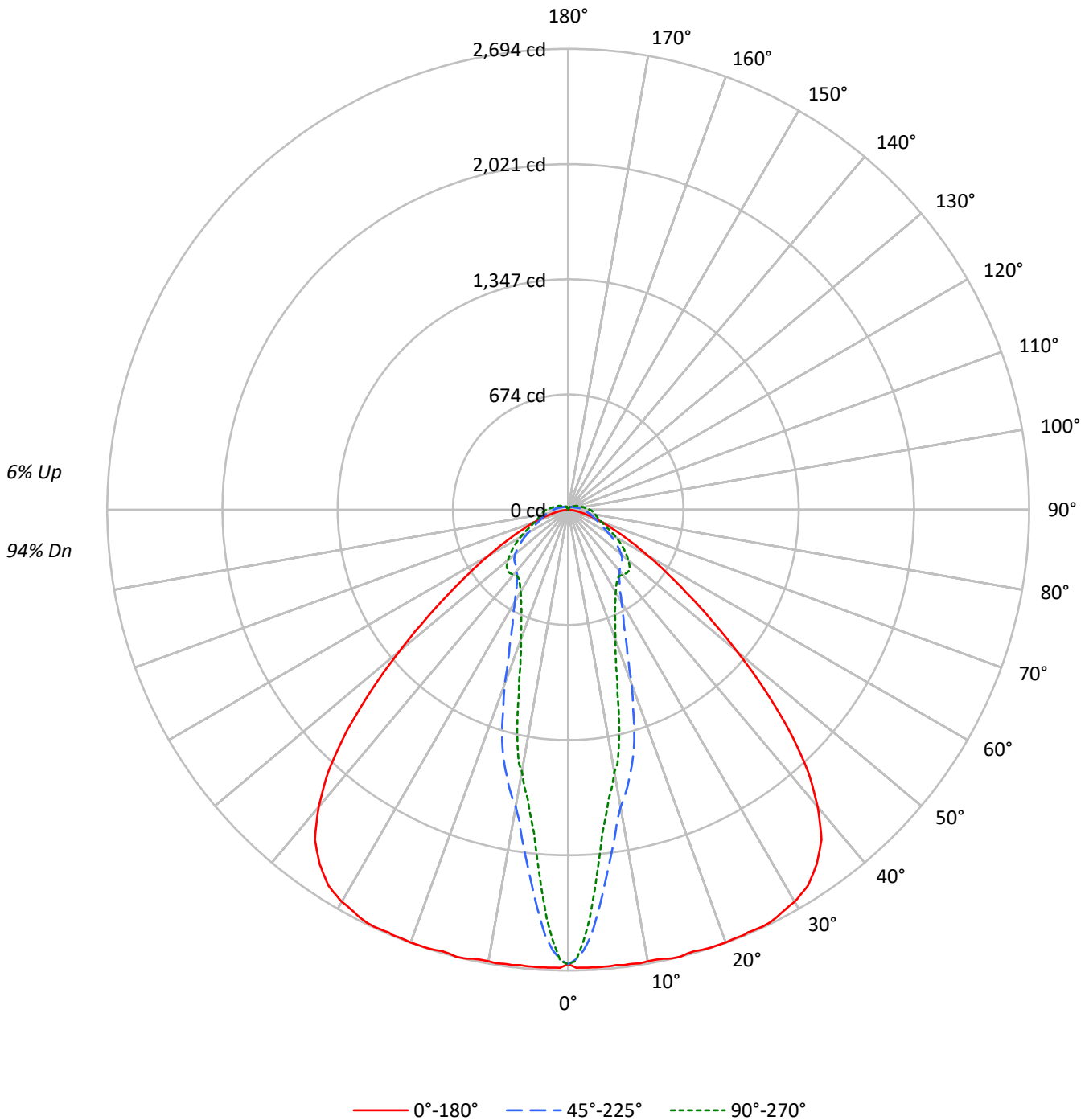
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3275.0 lumens
Efficiency: N/A
Efficacy: 167.9 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 (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	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°	28598	28598	28598
5°	28856	23488	21025
10°	29082	17732	15216
15°	29612	14495	10536
20°	30377	10488	7442
25°	31324	7514	5855
30°	32125	6003	4985
35°	32315	5078	4466
40°	30807	4616	4476
45°	26734	4460	4599
50°	20510	4242	4292
55°	14864	3709	3808
60°	10784	3095	3219
65°	7849	2618	2640
70°	5783	2311	2276
75°	4107	2141	2121
80°	2692	2005	2089
85°	1263	1912	2092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	6.4
10°-20°	453.7	13.9
20°-30°	519.4	15.9
30°-40°	520.3	15.9
40°-50°	492.5	15.0
50°-60°	377.7	11.5
60°-70°	243.5	7.4
70°-80°	155.2	4.7
80°-90°	103.1	3.1
90°-100°	69.3	2.1
100°-110°	45.7	1.4
110°-120°	31.8	1.0
120°-130°	22.2	0.7
130°-140°	15.4	0.5
140°-150°	9.4	0.3
150°-160°	4.8	0.1
160°-170°	1.8	0.1
170°-180°	0.4	0.0
0°-30°	1182.0	36.1
0°-40°	1702.3	52.0
0°-60°	2572.5	78.5
0°-90°	3074.3	93.9
90°-120°	146.7	4.5
90°-150°	193.7	5.9
90°-180°	201.0	6.1
0°-180°	3275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2657	2657	2657	2657	2657	
5°	2680	2533	2269	2116	2059	256
15°	2687	1935	1475	1212	1114	762
25°	2689	1370	780	678	646	1240
35°	2531	762	522	505	498	1570
45°	1829	482	440	487	504	1391
55°	839	344	339	381	396	772
65°	336	216	213	243	252	345
75°	114	118	148	170	178	125
85°	15	54	104	136	146	21
90°	0	37	87	121	126	1
95°	0	27	72	99	104	0
105°	0	20	47	67	72	1
115°	2	17	35	49	52	2
125°	2	15	30	35	37	2
135°	2	12	24	28	30	1
145°	2	8	17	22	24	1
155°	2	5	10	15	17	1
165°	3	3	7	8	10	1
175°	3	3	3	3	2	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2656.8	2656.8	2656.8	2656.8	2656.8
1°	2678.7	2663.6	2628.3	2638.4	2636.7
2°	2678.7	2646.8	2578.0	2557.8	2527.6
3°	2680.3	2618.2	2500.8	2435.3	2393.3
4°	2680.3	2576.3	2386.6	2277.5	2223.8
5°	2680.3	2532.6	2269.1	2116.4	2059.3
6°	2677.0	2480.6	2150.0	1988.9	1903.3
7°	2682.0	2423.5	2042.6	1869.7	1802.6
8°	2680.3	2356.4	1943.5	1779.1	1705.2
9°	2685.4	2291.0	1836.1	1693.5	1638.1
10°	2680.3	2230.5	1765.6	1612.9	1555.8
11°	2680.3	2171.8	1715.3	1560.9	1512.2
12°	2683.7	2104.7	1659.9	1487.0	1419.9
13°	2692.1	2035.8	1596.1	1406.5	1327.6
14°	2693.8	1983.8	1537.4	1304.1	1221.8
15°	2687.0	1935.1	1475.3	1211.8	1114.4
16°	2683.7	1884.8	1401.4	1124.5	1037.2
17°	2690.4	1826.1	1317.5	1035.5	955.0
18°	2692.1	1772.3	1228.6	968.4	897.9
19°	2692.1	1730.4	1156.4	906.3	845.9
20°	2692.1	1690.1	1082.5	859.3	807.3
21°	2688.7	1639.8	998.6	810.6	767.0
22.5°	2690.4	1545.8	903.0	753.6	718.3
23°	2685.4	1522.3	879.5	738.5	701.6
24°	2687.0	1455.1	829.1	708.3	673.0
25°	2688.7	1369.5	780.4	678.1	646.2
26°	2685.4	1300.7	740.2	649.5	627.7
27°	2677.0	1245.3	711.6	626.0	605.9
28°	2665.2	1171.5	681.4	605.9	587.4
29°	2653.5	1087.6	651.2	584.1	570.6
30°	2646.8	1020.4	622.7	567.3	555.5
32.5°	2606.5	887.9	563.9	533.7	523.6
35°	2531.0	762.0	522.0	505.2	498.5
37.5°	2431.9	664.6	490.1	486.7	488.4
40°	2269.1	587.4	466.6	481.7	496.8
42.5°	2074.4	527.0	449.8	486.7	503.5
45°	1829.4	481.7	439.7	486.7	503.5
47.5°	1557.5	444.8	428.0	469.9	486.7
50°	1285.6	411.2	404.5	444.8	459.9
52.5°	1045.6	379.3	374.3	412.9	428.0
55°	839.2	344.1	339.0	381.0	396.1
57.5°	673.0	310.5	305.5	344.1	359.2
60°	537.1	276.9	268.5	307.1	322.2
62.5°	428.0	245.0	240.0	273.6	287.0
65°	335.7	216.5	213.2	243.4	251.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	265.2	189.7	191.3	216.5	226.6
70°	204.8	164.5	174.5	198.0	204.8
72.5°	154.4	139.3	161.1	181.3	189.7
75°	114.1	117.5	147.7	169.5	177.9
77.5°	78.9	97.3	135.9	159.4	167.8
80°	53.7	78.9	124.2	151.1	161.1
82.5°	31.9	65.5	114.1	142.7	154.4
85°	15.1	53.7	104.1	135.9	146.0
87.5°	5.0	43.6	94.0	129.2	137.6
90°	0.0	36.9	87.3	120.8	125.9
92.5°	0.0	31.9	78.9	110.8	114.1
95°	0.0	26.9	72.2	99.0	104.1
97.5°	0.0	25.2	67.1	89.0	95.7
100°	0.0	23.5	60.4	80.6	87.3
102.5°	0.0	20.1	53.7	72.2	78.9
105°	0.0	20.1	47.0	67.1	72.2
107.5°	1.7	18.5	43.6	60.4	67.1
110°	1.7	18.5	38.6	57.1	62.1
112.5°	1.7	18.5	36.9	52.0	58.7
115°	1.7	16.8	35.2	48.7	52.0
117.5°	1.7	16.8	33.6	43.6	47.0
120°	1.7	15.1	31.9	40.3	42.0
122.5°	1.7	15.1	30.2	36.9	38.6
125°	1.7	15.1	30.2	35.2	36.9
127.5°	1.7	13.4	28.5	33.6	33.6
130°	1.7	13.4	26.9	31.9	31.9
132.5°	1.7	11.7	25.2	30.2	31.9
135°	1.7	11.7	23.5	28.5	30.2
137.5°	1.7	10.1	21.8	26.9	28.5
140°	1.7	10.1	20.1	25.2	26.9
142.5°	1.7	8.4	18.5	23.5	25.2
145°	1.7	8.4	16.8	21.8	23.5
147.5°	1.7	8.4	15.1	20.1	21.8
150°	1.7	6.7	13.4	18.5	20.1
152.5°	1.7	6.7	11.7	16.8	18.5
155°	1.7	5.0	10.1	15.1	16.8
157.5°	1.7	5.0	10.1	13.4	15.1
160°	3.4	5.0	8.4	11.7	13.4
162.5°	1.7	3.4	8.4	10.1	11.7
165°	3.4	3.4	6.7	8.4	10.1
167.5°	3.4	3.4	5.0	6.7	8.4
170°	3.4	3.4	5.0	5.0	6.7
172.5°	3.4	3.4	3.4	5.0	3.4
175°	3.4	3.4	3.4	3.4	1.7
177.5°	3.4	3.4	3.4	3.4	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)