

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: P566248

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-31SL-LN-UNV-L840-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

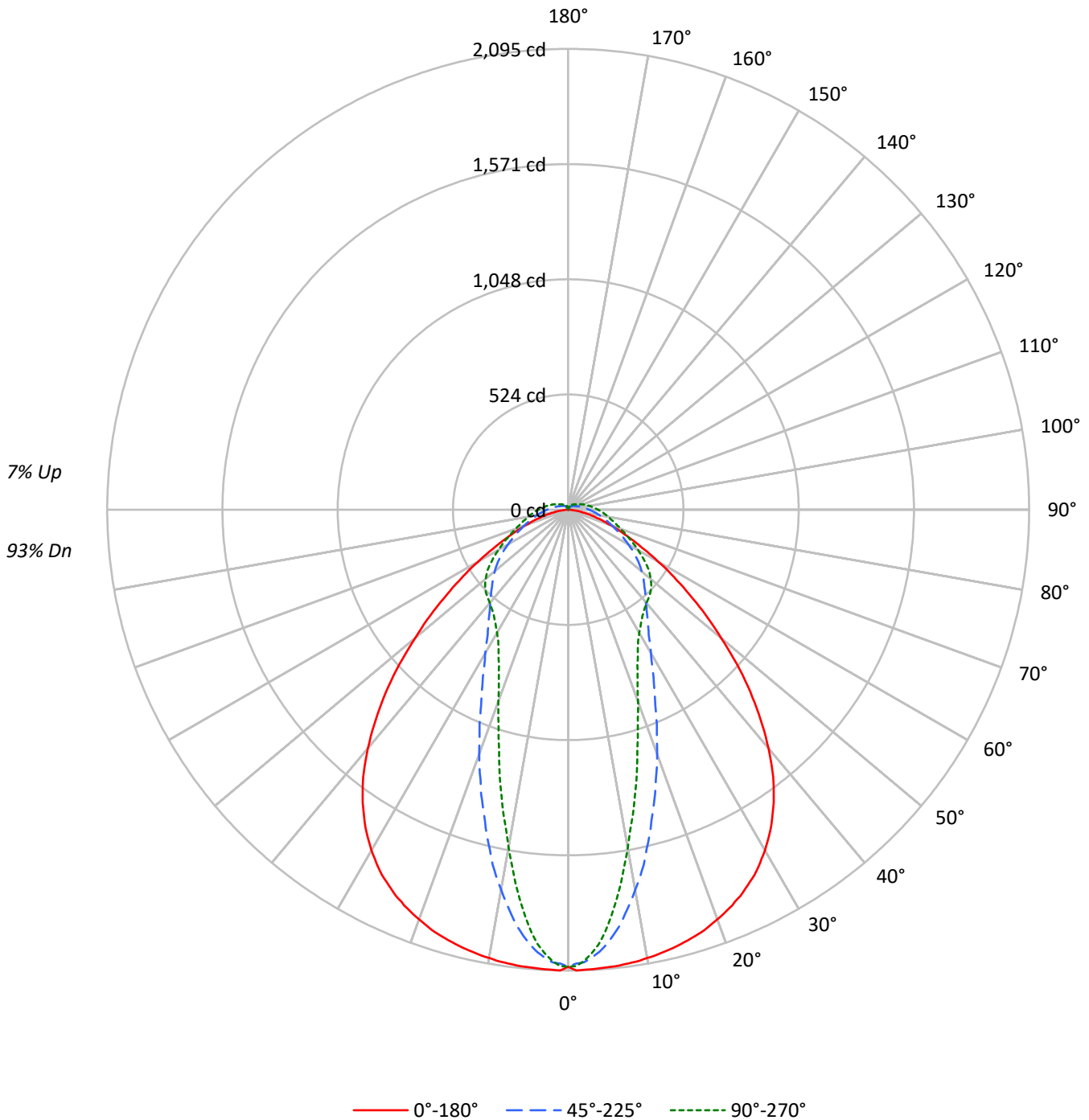
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3312.0 lumens
Efficiency: N/A
Efficacy: 169.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
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

TEST NUMBER: P566248
CATALOG NUMBER: 4SNX-31SL-LN-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566248

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22364	22364	22364
5°	22480	20555	19671
10°	22449	17624	15262
15°	22439	14377	11438
20°	22366	11453	8560
25°	22164	8974	6794
30°	21699	7263	5795
35°	20789	6146	5271
40°	19230	5426	4989
45°	17096	4965	4835
50°	14483	4569	4568
55°	11897	4140	4171
60°	9515	3641	3659
65°	7386	3198	3185
70°	5735	2828	2816
75°	4434	2541	2566
80°	3134	2326	2386
85°	1740	2167	2288



TEST NUMBER: P566248

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	5.6
10°-20°	431.3	13.0
20°-30°	511.9	15.5
30°-40°	515.1	15.6
40°-50°	478.8	14.5
50°-60°	394.2	11.9
60°-70°	277.8	8.4
70°-80°	181.5	5.5
80°-90°	115.9	3.5
90°-100°	76.0	2.3
100°-110°	51.6	1.6
110°-120°	35.4	1.1
120°-130°	24.5	0.7
130°-140°	16.5	0.5
140°-150°	10.1	0.3
150°-160°	5.3	0.2
160°-170°	1.9	0.1
170°-180°	0.3	0.0
0°-30°	1127.2	34.0
0°-40°	1642.3	49.6
0°-60°	2515.3	75.9
0°-90°	3090.5	93.3
90°-120°	163.0	4.9
90°-150°	214.0	6.5
90°-180°	222.0	6.7
0°-180°	3312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2078	2078	2078	2078	2078	
5°	2088	2060	1986	1948	1927	199
15°	2036	1819	1463	1279	1210	575
25°	1902	1406	932	783	750	875
35°	1628	951	632	592	588	1013
45°	1170	627	490	516	529	898
55°	672	411	378	420	434	607
65°	316	248	260	293	304	321
75°	123	128	175	207	215	133
85°	21	59	118	153	160	26
90°	0	40	96	130	135	1
95°	0	30	80	109	115	0
105°	0	21	54	76	83	0
115°	2	17	38	56	59	1
125°	2	14	31	40	43	2
135°	2	12	24	31	33	1
145°	2	9	17	24	26	1
155°	2	7	12	17	19	1
165°	2	4	7	9	10	0
175°	4	4	4	4	2	0
180°	2	2	2	2	2	



TEST NUMBER: P566248

CATALOG NUMBER: 4SNX-31SL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2077.7	2077.7	2077.7	2077.7	2077.7
1°	2095.1	2086.4	2063.8	2079.5	2076.0
2°	2093.3	2084.7	2058.6	2065.6	2053.4
3°	2091.6	2079.5	2039.5	2037.8	2020.4
4°	2089.9	2070.8	2015.2	1994.4	1980.5
5°	2088.1	2060.4	1985.7	1947.5	1926.7
6°	2086.4	2048.2	1947.5	1890.3	1860.7
7°	2082.9	2029.1	1907.6	1829.5	1791.3
8°	2079.5	2011.8	1857.3	1763.5	1716.7
9°	2076.0	1989.2	1806.9	1692.4	1636.8
10°	2069.0	1966.6	1754.9	1619.5	1560.5
11°	2065.6	1940.6	1704.5	1550.0	1480.6
12°	2058.6	1912.8	1650.7	1477.1	1416.4
13°	2051.7	1883.3	1584.8	1414.7	1341.8
14°	2044.7	1852.1	1527.5	1345.2	1277.5
15°	2036.1	1819.1	1463.3	1279.3	1209.8
16°	2027.4	1780.9	1406.0	1211.6	1138.7
17°	2018.7	1744.4	1352.2	1149.1	1083.1
18°	2008.3	1708.0	1289.7	1088.3	1024.1
19°	1994.4	1666.3	1239.3	1032.8	973.8
20°	1982.2	1628.2	1182.1	980.7	928.6
21°	1968.4	1581.3	1124.8	932.1	880.0
22.5°	1947.5	1515.3	1051.9	871.4	822.8
23°	1937.1	1496.2	1022.4	848.8	807.1
24°	1923.2	1445.9	973.8	814.1	772.4
25°	1902.4	1406.0	932.1	782.8	749.9
26°	1883.3	1357.4	890.5	755.1	722.1
27°	1864.2	1310.5	854.0	725.6	697.8
28°	1839.9	1261.9	814.1	701.3	677.0
29°	1813.9	1216.8	781.1	680.4	661.3
30°	1787.8	1166.4	753.3	661.3	645.7
32.5°	1714.9	1055.3	682.2	624.9	614.5
35°	1628.2	951.2	631.8	591.9	588.4
37.5°	1530.9	855.7	586.7	565.9	569.3
40°	1416.4	768.9	548.5	546.8	553.7
42.5°	1294.9	694.3	519.0	531.1	541.6
45°	1169.9	626.6	489.5	515.5	529.4
47.5°	1039.7	567.6	463.5	496.4	512.1
50°	907.8	510.3	435.7	473.9	489.5
52.5°	789.8	460.0	407.9	447.8	465.2
55°	671.7	411.4	378.4	420.1	433.9
57.5°	569.3	366.2	347.2	388.8	399.2
60°	473.9	322.9	315.9	354.1	366.2
62.5°	387.1	284.7	286.4	322.9	335.0
65°	315.9	248.2	260.4	293.3	303.8



TEST NUMBER: P566248

CATALOG NUMBER: 4SNX-31SL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	256.9	213.5	234.3	269.0	277.7
70°	203.1	182.3	213.5	244.7	253.4
72.5°	161.4	154.5	192.7	225.7	232.6
75°	123.2	128.4	175.3	206.6	215.2
77.5°	88.5	107.6	158.0	190.9	197.9
80°	62.5	88.5	144.1	177.0	184.0
82.5°	39.9	72.9	130.2	164.9	171.8
85°	20.8	59.0	118.0	152.7	159.7
87.5°	8.7	48.6	105.9	140.6	147.5
90°	0.0	39.9	95.5	130.2	135.4
92.5°	0.0	34.7	86.8	119.8	125.0
95°	0.0	29.5	79.8	109.4	114.6
97.5°	0.0	27.8	71.2	100.7	105.9
100°	0.0	24.3	64.2	92.0	98.9
102.5°	0.0	22.6	59.0	83.3	90.3
105°	0.0	20.8	53.8	76.4	83.3
107.5°	0.0	19.1	50.3	71.2	76.4
110°	0.0	19.1	45.1	66.0	71.2
112.5°	1.7	17.4	41.7	59.0	64.2
115°	1.7	17.4	38.2	55.5	59.0
117.5°	1.7	17.4	36.5	50.3	53.8
120°	1.7	15.6	34.7	46.9	50.3
122.5°	1.7	15.6	33.0	43.4	45.1
125°	1.7	13.9	31.2	39.9	43.4
127.5°	1.7	13.9	29.5	38.2	39.9
130°	1.7	13.9	27.8	34.7	38.2
132.5°	1.7	12.2	26.0	33.0	34.7
135°	1.7	12.2	24.3	31.2	33.0
137.5°	1.7	10.4	22.6	29.5	31.2
140°	1.7	10.4	20.8	27.8	29.5
142.5°	1.7	8.7	19.1	26.0	27.8
145°	1.7	8.7	17.4	24.3	26.0
147.5°	1.7	8.7	15.6	22.6	24.3
150°	1.7	6.9	13.9	20.8	22.6
152.5°	1.7	6.9	12.2	19.1	20.8
155°	1.7	6.9	12.2	17.4	19.1
157.5°	1.7	5.2	10.4	13.9	17.4
160°	1.7	5.2	8.7	12.2	15.6
162.5°	1.7	5.2	8.7	10.4	12.2
165°	1.7	3.5	6.9	8.7	10.4
167.5°	1.7	3.5	5.2	6.9	8.7
170°	1.7	3.5	5.2	5.2	6.9
172.5°	1.7	3.5	3.5	3.5	3.5
175°	3.5	3.5	3.5	3.5	1.7
177.5°	3.5	3.5	3.5	1.7	1.7



TEST NUMBER: P566248

CATALOG NUMBER: 4SNX-31SL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	1.7	1.7	1.7	1.7	1.7

(END OF REPORT)