

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: P566018

Luminaire Tested: **4SNX-104HL-LW-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-104HL-LW-UNV-L930-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

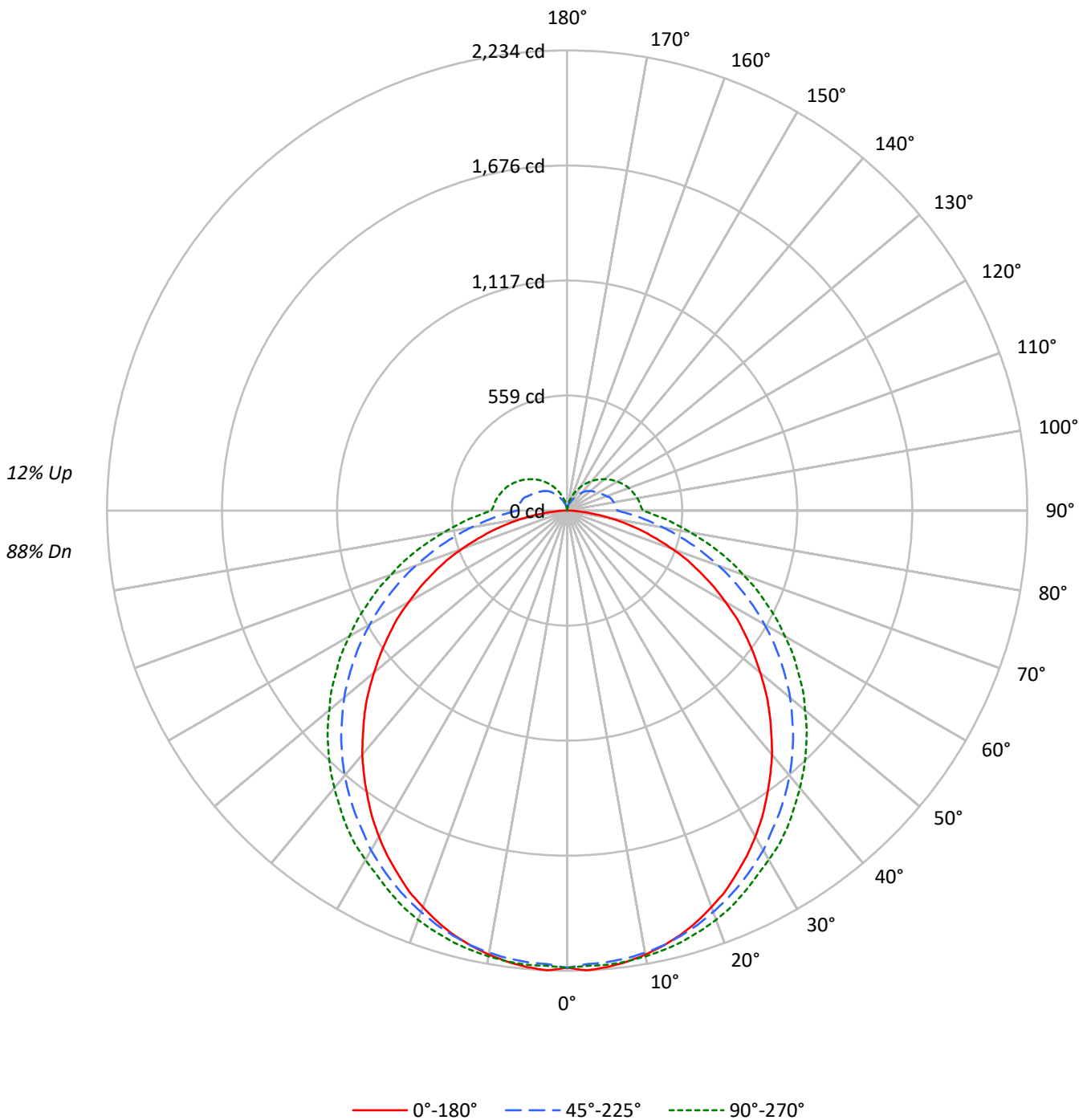
Lumens per Lamp: N/A
Luminaire Lumens: 7989.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 75.5
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: P566018

CATALOG NUMBER: 4SNX-104HL-LW-UNV-L930-CD

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	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23885	23885	23885
5°	23948	22787	22600
10°	23750	21888	21488
15°	23490	20996	20476
20°	23109	20094	19497
25°	22664	19217	18493
30°	22184	18360	17570
35°	21590	17461	16741
40°	21007	16621	15841
45°	20313	15735	14982
50°	19513	14819	14068
55°	18731	13814	13165
60°	17828	12758	12192
65°	16729	11608	11186
70°	15336	10364	10096
75°	13393	9002	9053
80°	10700	7641	7858
85°	6868	6332	6860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.7	2.6
10°-20°	606.0	7.6
20°-30°	921.9	11.5
30°-40°	1120.9	14.0
40°-50°	1185.9	14.8
50°-60°	1111.6	13.9
60°-70°	914.5	11.4
70°-80°	632.7	7.9
80°-90°	351.9	4.4
90°-100°	231.8	2.9
100°-110°	207.9	2.6
110°-120°	172.0	2.2
120°-130°	133.0	1.7
130°-140°	94.2	1.2
140°-150°	56.8	0.7
150°-160°	27.3	0.3
160°-170°	8.9	0.1
170°-180°	1.1	0.0
0°-30°	1738.5	21.8
0°-40°	2859.4	35.8
0°-60°	5157.0	64.6
0°-90°	7056.0	88.3
90°-120°	611.7	7.7
90°-150°	895.6	11.2
90°-180°	933.0	11.7
0°-180°	7989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2219	2219	2219	2219	2219	
5°	2224	2220	2201	2219	2214	211
15°	2132	2138	2137	2166	2166	601
25°	1945	1973	1996	2040	2041	897
35°	1691	1736	1795	1852	1869	1058
45°	1390	1462	1551	1621	1640	1071
55°	1058	1152	1263	1342	1370	947
65°	716	818	945	1038	1067	709
75°	372	480	621	720	759	395
85°	82	204	345	440	479	94
90°	1	115	244	335	368	5
95°	1	109	237	324	356	1
105°	1	94	222	305	332	1
115°	3	82	187	271	301	2
125°	3	70	160	231	260	2
135°	3	55	134	190	213	2
145°	3	40	93	144	161	2
155°	4	27	58	92	107	2
165°	4	18	32	42	55	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



TEST NUMBER: P566018

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2219.0	2219.0	2219.0	2219.0	2219.0
2.5°	2234.1	2227.2	2204.0	2219.0	2212.2
5°	2224.5	2220.4	2201.3	2219.0	2213.6
7.5°	2209.5	2208.1	2193.0	2213.6	2208.1
10°	2188.9	2191.7	2179.4	2201.3	2197.1
12.5°	2162.9	2167.0	2161.6	2186.2	2183.5
15°	2131.5	2138.3	2137.0	2165.7	2165.7
17.5°	2093.2	2102.7	2108.2	2141.1	2141.1
20°	2048.0	2063.1	2074.0	2109.6	2115.1
22.5°	2002.9	2020.7	2037.1	2074.0	2082.2
25°	1945.4	1972.8	1996.0	2039.8	2041.2
27.5°	1889.3	1919.4	1950.9	1993.3	1997.4
30°	1827.8	1866.1	1904.4	1945.4	1957.7
32.5°	1762.1	1804.5	1846.9	1901.6	1918.1
35°	1691.0	1736.1	1794.9	1852.4	1868.8
37.5°	1619.8	1670.4	1738.8	1797.7	1812.7
40°	1547.3	1603.4	1680.0	1740.2	1758.0
42.5°	1466.6	1535.0	1617.1	1681.4	1701.9
45°	1390.0	1462.5	1551.4	1621.2	1640.3
47.5°	1309.3	1385.9	1481.6	1555.5	1577.4
50°	1223.1	1310.6	1413.2	1487.1	1507.6
52.5°	1142.4	1231.3	1339.4	1416.0	1444.7
55°	1057.5	1151.9	1262.7	1342.1	1369.5
57.5°	978.2	1068.5	1187.5	1266.8	1301.0
60°	887.9	987.8	1106.8	1193.0	1220.3
62.5°	803.1	904.3	1027.4	1116.4	1147.8
65°	715.5	818.1	945.3	1038.4	1067.1
67.5°	633.4	734.7	864.6	956.3	993.2
70°	543.1	649.8	782.5	876.9	908.4
72.5°	454.2	565.0	700.5	801.7	837.3
75°	372.1	480.2	621.1	719.6	759.3
77.5°	292.8	402.2	544.5	645.7	679.9
80°	213.4	328.3	473.4	573.2	606.1
82.5°	140.9	261.3	405.0	504.8	540.4
85°	82.1	203.8	344.8	440.5	478.8
87.5°	35.6	154.6	288.7	383.1	414.5
90°	1.4	114.9	243.5	335.2	368.0
92.5°	1.4	112.2	238.0	328.3	359.8
95°	1.4	109.4	236.7	324.2	355.7
97.5°	1.4	108.1	233.9	321.5	351.6
100°	1.4	104.0	229.8	316.0	346.1
102.5°	1.4	98.5	225.7	310.6	339.3
105°	1.4	94.4	221.6	305.1	332.4
107.5°	1.4	90.3	214.8	298.2	325.6
110°	1.4	86.2	203.8	291.4	318.8



TEST NUMBER: P566018

CATALOG NUMBER: 4SNX-104HL-LW-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	84.8	195.6	281.8	310.6
115°	2.7	82.1	187.4	270.9	301.0
117.5°	2.7	80.7	180.6	259.9	291.4
120°	2.7	76.6	173.7	250.4	280.5
122.5°	2.7	72.5	166.9	240.8	270.9
125°	2.7	69.8	160.1	231.2	259.9
127.5°	2.7	65.7	154.6	221.6	247.6
130°	2.7	62.9	147.8	210.7	236.7
132.5°	2.7	58.8	140.9	199.7	224.4
135°	2.7	54.7	134.1	190.2	213.4
137.5°	2.7	49.3	125.9	179.2	201.1
140°	2.7	45.1	114.9	168.3	188.8
142.5°	2.7	42.4	104.0	156.0	175.1
145°	2.7	39.7	93.0	143.6	161.4
147.5°	2.7	36.9	83.5	131.3	147.8
150°	2.7	32.8	73.9	120.4	134.1
152.5°	4.1	30.1	65.7	106.7	120.4
155°	4.1	27.4	57.5	91.7	106.7
157.5°	4.1	24.6	49.3	76.6	93.0
160°	4.1	21.9	42.4	62.9	79.3
162.5°	4.1	20.5	36.9	52.0	67.0
165°	4.1	17.8	31.5	42.4	54.7
167.5°	4.1	13.7	26.0	32.8	45.1
170°	4.1	10.9	20.5	23.3	34.2
172.5°	4.1	8.2	15.0	16.4	17.8
175°	4.1	6.8	9.6	9.6	5.5
177.5°	4.1	5.5	5.5	5.5	2.7
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)