

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: P566004

Luminaire Tested: **4SNX-104HL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-104HL-LC-UNV-L940-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

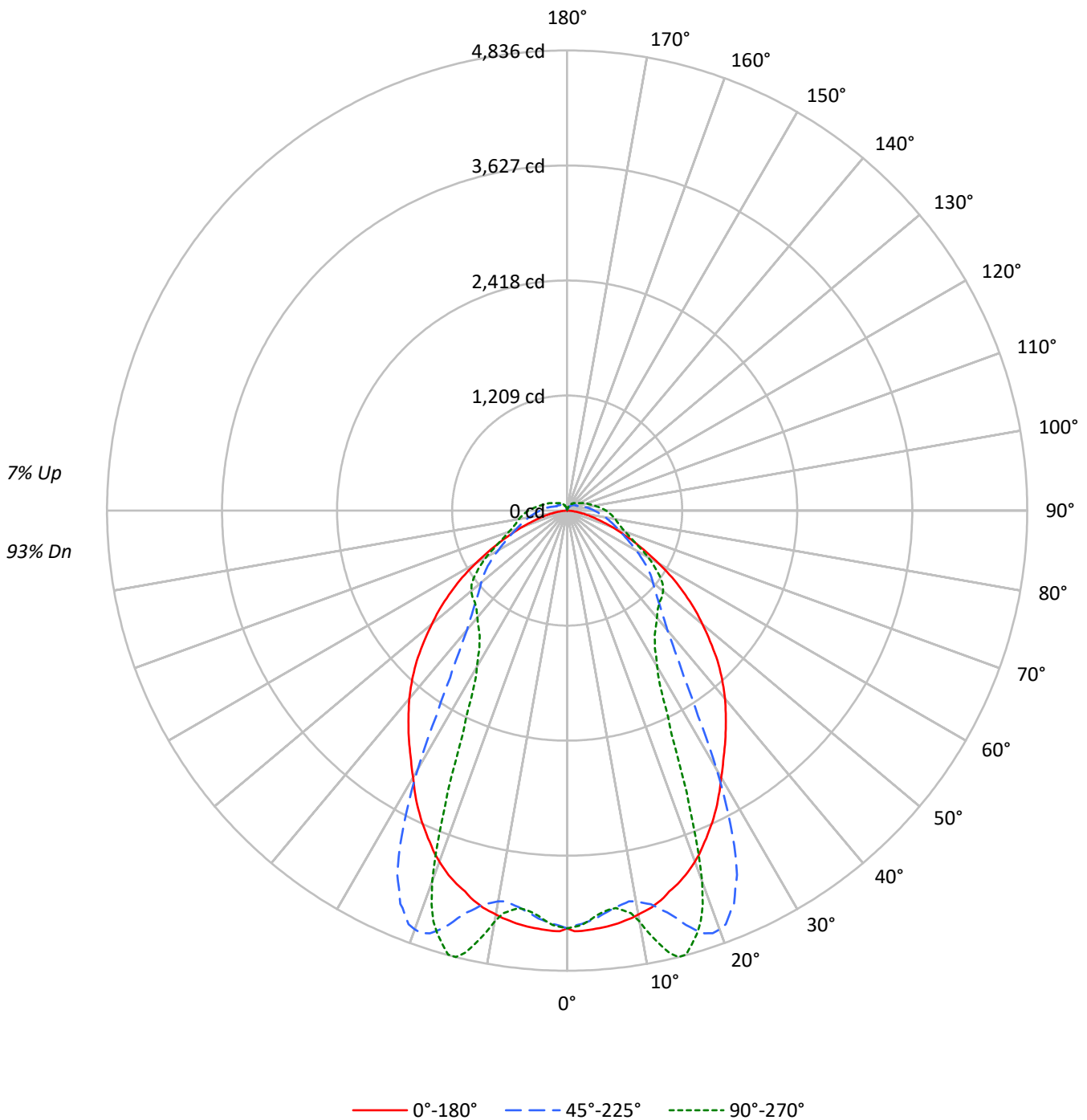
Lumens per Lamp: N/A
Luminaire Lumens: 9760.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 75.5
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

TEST NUMBER: P566004

CATALOG NUMBER: 4SNX-104HL-LC-UNV-L940-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	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	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	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	68	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	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47270	47270	47270
5°	47326	44117	43268
10°	46760	41889	42906
15°	45671	43571	45676
20°	44289	45377	38228
25°	42066	40674	23505
30°	39301	30271	17011
35°	37045	20875	14350
40°	35021	16187	13226
45°	32664	13768	12508
50°	29598	12344	12278
55°	26368	11152	11360
60°	22231	9637	9826
65°	17942	8381	8201
70°	13927	7520	7221
75°	10621	6976	6734
80°	7245	6590	6666
85°	3740	6266	6619



TEST NUMBER: P566004

CATALOG NUMBER: 4SNX-104HL-LC-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.6	4.2
10°-20°	1248.7	12.8
20°-30°	1681.3	17.2
30°-40°	1591.2	16.3
40°-50°	1404.5	14.4
50°-60°	1140.7	11.7
60°-70°	775.8	7.9
70°-80°	499.2	5.1
80°-90°	331.9	3.4
90°-100°	228.1	2.3
100°-110°	153.1	1.6
110°-120°	108.0	1.1
120°-130°	77.2	0.8
130°-140°	54.4	0.6
140°-150°	33.8	0.3
150°-160°	16.5	0.2
160°-170°	5.8	0.1
170°-180°	1.0	0.0
0°-30°	3338.6	34.2
0°-40°	4929.9	50.5
0°-60°	7475.1	76.6
0°-90°	9082.0	93.1
90°-120°	489.3	5.0
90°-150°	654.7	6.7
90°-180°	678.0	6.9
0°-180°	9760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4392	4392	4392	4392	4392	
5°	4396	4356	4262	4259	4238	417
15°	4144	4117	4435	4827	4831	1168
25°	3611	4281	4225	3068	2594	1657
35°	2901	4071	2146	1653	1602	1816
45°	2235	2739	1358	1341	1370	1716
55°	1489	1620	1019	1138	1182	1330
65°	767	873	682	758	782	770
75°	295	413	481	539	565	321
85°	45	176	341	432	462	59
90°	2	122	285	383	408	3
95°	2	94	240	325	347	1
105°	3	66	158	222	249	3
115°	3	57	116	165	186	4
125°	4	48	100	125	134	4
135°	6	37	82	104	110	5
145°	6	27	58	80	88	4
155°	8	16	36	54	61	3
165°	8	10	19	27	33	2
175°	9	9	9	9	8	1
180°	8	8	8	8	8	



TEST NUMBER: P566004

CATALOG NUMBER: 4SNX-104HL-LC-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4391.5	4391.5	4391.5	4391.5	4391.5
1°	4421.3	4407.9	4363.2	4387.0	4375.1
2°	4419.8	4397.5	4346.8	4373.6	4358.7
3°	4412.4	4388.5	4323.0	4339.4	4317.0
4°	4404.9	4376.6	4297.6	4297.6	4272.3
5°	4396.0	4355.8	4261.9	4258.9	4238.0
6°	4385.6	4339.4	4230.6	4227.6	4215.7
7°	4370.7	4311.1	4196.3	4217.2	4208.2
8°	4352.8	4284.2	4178.4	4230.6	4244.0
9°	4336.4	4251.4	4157.6	4272.3	4282.7
10°	4309.6	4221.6	4171.0	4355.8	4387.0
11°	4287.2	4196.3	4200.8	4437.7	4531.6
12°	4264.9	4169.5	4229.1	4540.5	4655.3
13°	4227.6	4148.6	4291.7	4652.3	4770.0
14°	4194.8	4132.2	4352.8	4765.6	4835.6
15°	4144.2	4117.3	4434.7	4826.6	4831.1
16°	4109.9	4106.9	4530.1	4831.1	4747.7
17°	4071.1	4102.4	4607.6	4753.6	4655.3
18°	4027.9	4111.4	4671.7	4656.8	4543.5
19°	3978.7	4120.3	4698.5	4522.7	4376.6
20°	3925.1	4133.7	4683.6	4382.6	4147.1
21°	3871.5	4151.6	4655.3	4235.1	3846.1
22.5°	3771.6	4194.8	4521.2	3820.8	3348.4
23°	3743.3	4203.8	4489.9	3691.1	3218.8
24°	3673.3	4241.0	4346.8	3388.6	2876.0
25°	3610.7	4281.2	4224.6	3068.3	2594.4
26°	3540.6	4311.1	4039.8	2773.2	2421.5
27°	3472.1	4328.9	3829.7	2543.7	2227.8
28°	3393.1	4348.3	3601.7	2345.5	2081.8
29°	3318.6	4351.3	3376.7	2187.6	1967.0
30°	3238.1	4336.4	3139.8	2060.9	1895.5
32.5°	3062.3	4254.4	2560.1	1819.5	1716.7
35°	2901.4	4071.1	2145.8	1652.6	1601.9
37.5°	2738.9	3782.0	1855.3	1548.3	1531.9
40°	2579.5	3439.3	1636.2	1464.8	1467.8
42.5°	2411.1	3086.1	1485.7	1396.3	1409.7
45°	2235.2	2738.9	1357.5	1341.1	1369.5
47.5°	2040.0	2421.5	1256.2	1305.4	1348.6
50°	1855.3	2107.1	1177.2	1271.1	1315.8
52.5°	1679.4	1849.3	1105.7	1213.0	1265.2
55°	1488.7	1619.8	1019.3	1138.5	1181.7
57.5°	1306.9	1412.7	928.4	1046.1	1084.8
60°	1107.2	1208.5	836.0	946.3	983.5
62.5°	926.9	1034.2	757.0	846.4	876.2
65°	767.4	873.2	682.5	758.5	782.3



TEST NUMBER: P566004

CATALOG NUMBER: 4SNX-104HL-LC-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	625.9	739.1	621.4	685.5	707.8
70°	493.2	612.5	567.8	625.9	649.7
72.5°	386.0	506.7	523.0	576.7	600.5
75°	295.1	412.8	481.3	539.4	564.8
77.5°	219.1	336.8	442.6	509.6	536.5
80°	144.5	268.2	408.3	482.8	514.1
82.5°	90.9	216.1	374.0	456.0	488.8
85°	44.7	175.8	341.2	432.1	462.0
87.5°	14.9	146.0	311.4	408.3	433.6
90°	1.5	122.2	284.6	383.0	408.3
92.5°	1.5	105.8	262.3	353.2	378.5
95°	1.5	93.9	239.9	324.9	347.2
97.5°	1.5	84.9	219.1	295.1	318.9
100°	1.5	76.0	196.7	266.7	292.1
102.5°	3.0	70.0	177.3	242.9	269.7
105°	3.0	65.6	158.0	222.0	248.9
107.5°	3.0	62.6	141.6	205.6	231.0
110°	3.0	59.6	129.6	190.7	217.6
112.5°	3.0	58.1	122.2	177.3	202.7
115°	3.0	56.6	116.2	165.4	186.3
117.5°	4.5	55.1	111.8	153.5	169.9
120°	4.5	52.2	108.8	143.1	156.5
122.5°	4.5	49.2	104.3	134.1	144.5
125°	4.5	47.7	99.8	125.2	134.1
127.5°	4.5	44.7	95.4	117.7	126.7
130°	6.0	41.7	90.9	111.8	119.2
132.5°	6.0	38.7	86.4	108.8	114.7
135°	6.0	37.3	82.0	104.3	110.3
137.5°	6.0	34.3	77.5	99.8	105.8
140°	6.0	31.3	71.5	93.9	99.8
142.5°	6.0	29.8	65.6	87.9	93.9
145°	6.0	26.8	58.1	80.5	87.9
147.5°	7.5	25.3	52.2	74.5	80.5
150°	7.5	22.4	46.2	68.5	74.5
152.5°	7.5	19.4	40.2	61.1	67.1
155°	7.5	16.4	35.8	53.6	61.1
157.5°	7.5	14.9	31.3	44.7	53.6
160°	7.5	13.4	26.8	38.7	46.2
162.5°	7.5	11.9	23.8	32.8	40.2
165°	7.5	10.4	19.4	26.8	32.8
167.5°	8.9	10.4	16.4	20.9	26.8
170°	8.9	10.4	13.4	16.4	20.9
172.5°	8.9	8.9	10.4	11.9	13.4
175°	8.9	8.9	8.9	8.9	7.5
177.5°	8.9	8.9	8.9	7.5	7.5



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CATALOG NUMBER: 4SNX-104HL-LC-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.5	7.5	7.5	7.5	7.5

(END OF REPORT)