

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: P566003

Luminaire Tested: **4SNX-104HL-LC-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566003
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-L935-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

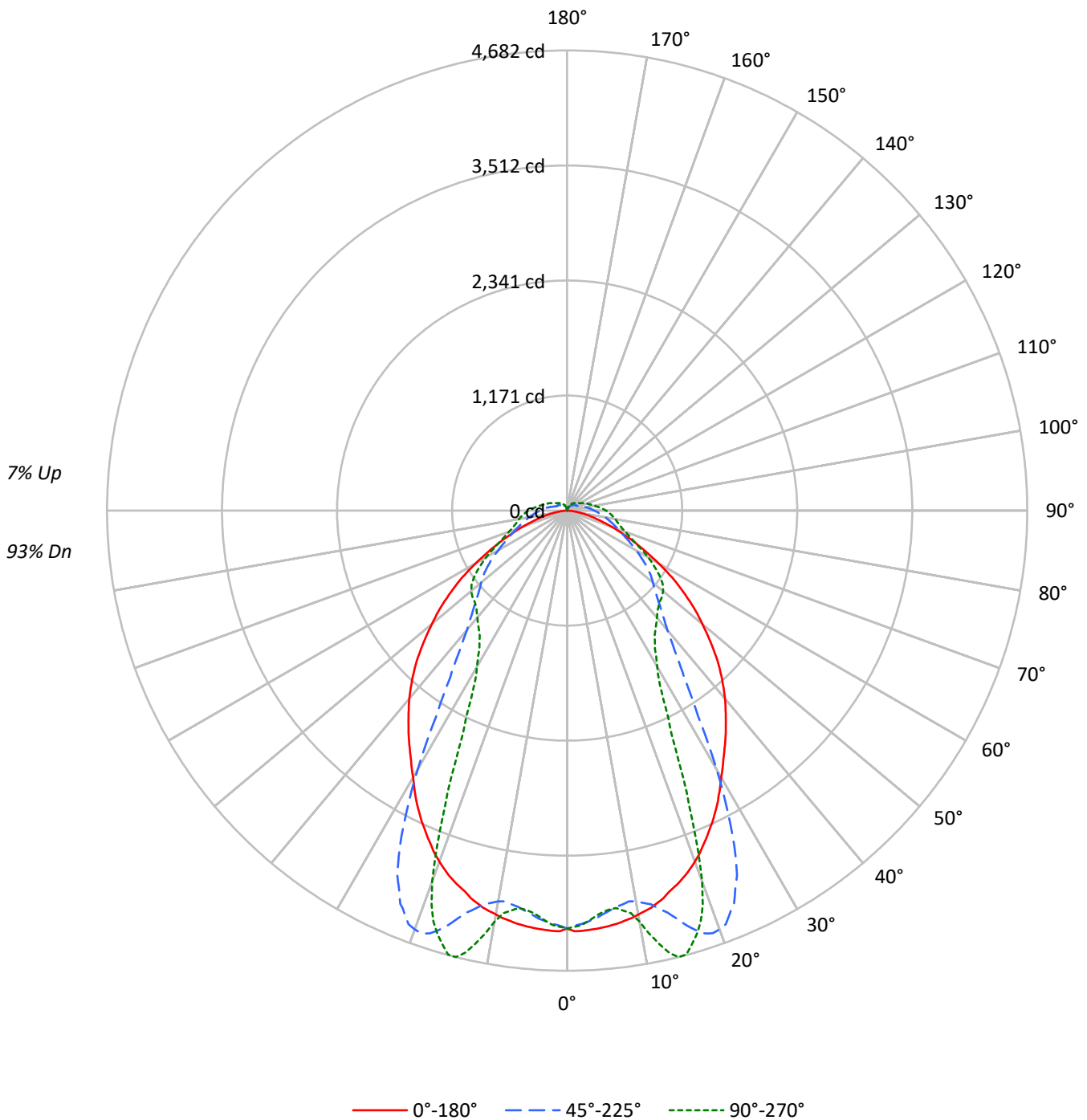
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9450.0 lumens
Efficiency: N/A
Efficacy: 125.2 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 (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	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°	45768	45768	45768
5°	45823	42715	41894
10°	45275	40559	41544
15°	44220	42188	44226
20°	42882	43935	37014
25°	40729	39382	22759
30°	38054	29310	16471
35°	35867	20213	13894
40°	33908	15673	12806
45°	31628	13331	12111
50°	28657	11952	11888
55°	25531	10797	11000
60°	21524	9330	9514
65°	17374	8114	7941
70°	13487	7281	6992
75°	10283	6754	6520
80°	7019	6380	6454
85°	3622	6068	6409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.7	4.2
10°-20°	1209.0	12.8
20°-30°	1627.9	17.2
30°-40°	1540.7	16.3
40°-50°	1359.9	14.4
50°-60°	1104.5	11.7
60°-70°	751.2	7.9
70°-80°	483.3	5.1
80°-90°	321.4	3.4
90°-100°	220.9	2.3
100°-110°	148.3	1.6
110°-120°	104.6	1.1
120°-130°	74.7	0.8
130°-140°	52.7	0.6
140°-150°	32.7	0.3
150°-160°	16.0	0.2
160°-170°	5.6	0.1
170°-180°	1.0	0.0
0°-30°	3232.6	34.2
0°-40°	4773.3	50.5
0°-60°	7237.6	76.6
0°-90°	8793.6	93.1
90°-120°	473.7	5.0
90°-150°	633.9	6.7
90°-180°	656.0	6.9
0°-180°	9450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4252	4252	4252	4252	4252	
5°	4256	4217	4126	4124	4103	404
15°	4012	3987	4294	4673	4678	1131
25°	3496	4145	4090	2971	2512	1604
35°	2809	3942	2078	1600	1551	1758
45°	2164	2652	1314	1299	1326	1662
55°	1441	1568	987	1102	1144	1287
65°	743	846	661	734	758	746
75°	286	400	466	522	547	311
85°	43	170	330	418	447	57
90°	1	118	276	371	395	3
95°	1	91	232	314	336	1
105°	3	64	153	215	241	3
115°	3	55	112	160	180	3
125°	4	46	97	121	130	4
135°	6	36	79	101	107	4
145°	6	26	56	78	85	4
155°	7	16	35	52	59	3
165°	7	10	19	26	32	2
175°	9	9	9	9	7	1
180°	7	7	7	7	7	



TEST NUMBER: P566003

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4252.0	4252.0	4252.0	4252.0	4252.0
1°	4280.9	4267.9	4224.6	4247.7	4236.2
2°	4279.4	4257.8	4208.7	4234.7	4220.3
3°	4272.2	4249.1	4185.7	4201.5	4179.9
4°	4265.0	4237.6	4161.1	4161.1	4136.6
5°	4256.4	4217.4	4126.5	4123.6	4103.4
6°	4246.3	4201.5	4096.2	4093.3	4081.8
7°	4231.8	4174.1	4063.0	4083.2	4074.6
8°	4214.5	4148.2	4045.7	4096.2	4109.2
9°	4198.6	4116.4	4025.5	4136.6	4146.7
10°	4172.7	4087.6	4038.5	4217.4	4247.7
11°	4151.0	4063.0	4067.4	4296.8	4387.7
12°	4129.4	4037.1	4094.8	4396.3	4507.4
13°	4093.3	4016.9	4155.4	4504.5	4618.5
14°	4061.6	4001.0	4214.5	4614.2	4682.0
15°	4012.5	3986.6	4293.9	4673.3	4677.7
16°	3979.3	3976.5	4386.2	4677.7	4596.9
17°	3941.8	3972.1	4461.2	4602.6	4507.4
18°	3900.0	3980.8	4523.3	4508.9	4399.2
19°	3852.4	3989.4	4549.3	4379.0	4237.6
20°	3800.4	4002.4	4534.8	4243.4	4015.4
21°	3748.5	4019.7	4507.4	4100.5	3724.0
22.5°	3651.8	4061.6	4377.6	3699.4	3242.1
23°	3624.4	4070.2	4347.3	3573.9	3116.5
24°	3556.6	4106.3	4208.7	3281.0	2784.7
25°	3496.0	4145.3	4090.4	2970.8	2512.0
26°	3428.2	4174.1	3911.5	2685.1	2344.6
27°	3361.8	4191.4	3708.1	2462.9	2157.0
28°	3285.3	4210.2	3487.3	2271.0	2015.6
29°	3213.2	4213.1	3269.5	2118.1	1904.5
30°	3135.3	4198.6	3040.1	1995.4	1835.3
32.5°	2965.0	4119.3	2478.8	1761.7	1662.1
35°	2809.2	3941.8	2077.7	1600.1	1551.0
37.5°	2651.9	3661.9	1796.3	1499.1	1483.2
40°	2497.5	3330.1	1584.2	1418.3	1421.2
42.5°	2334.5	2988.1	1438.5	1351.9	1364.9
45°	2164.3	2651.9	1314.4	1298.6	1326.0
47.5°	1975.2	2344.6	1216.3	1263.9	1305.8
50°	1796.3	2040.2	1139.8	1230.7	1274.0
52.5°	1626.1	1790.6	1070.6	1174.5	1225.0
55°	1441.4	1568.4	986.9	1102.3	1144.2
57.5°	1265.4	1367.8	898.9	1012.9	1050.4
60°	1072.0	1170.1	809.4	916.2	952.3
62.5°	897.4	1001.3	733.0	819.5	848.4
65°	743.1	845.5	660.8	734.4	757.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	606.0	715.6	601.7	663.7	685.3
70°	477.6	593.0	549.7	606.0	629.1
72.5°	373.7	490.6	506.4	558.4	581.5
75°	285.7	399.7	466.0	522.3	546.8
77.5°	212.1	326.1	428.5	493.4	519.4
80°	140.0	259.7	395.3	467.5	497.8
82.5°	88.0	209.2	362.2	441.5	473.2
85°	43.3	170.3	330.4	418.4	447.3
87.5°	14.4	141.4	301.6	395.3	419.9
90°	1.4	118.3	275.6	370.8	395.3
92.5°	1.4	102.4	253.9	342.0	366.5
95°	1.4	90.9	232.3	314.5	336.2
97.5°	1.4	82.2	212.1	285.7	308.8
100°	1.4	73.6	190.5	258.3	282.8
102.5°	2.9	67.8	171.7	235.2	261.2
105°	2.9	63.5	152.9	215.0	241.0
107.5°	2.9	60.6	137.1	199.1	223.6
110°	2.9	57.7	125.5	184.7	210.7
112.5°	2.9	56.3	118.3	171.7	196.2
115°	2.9	54.8	112.5	160.2	180.4
117.5°	4.3	53.4	108.2	148.6	164.5
120°	4.3	50.5	105.3	138.5	151.5
122.5°	4.3	47.6	101.0	129.9	140.0
125°	4.3	46.2	96.7	121.2	129.9
127.5°	4.3	43.3	92.3	114.0	122.6
130°	5.8	40.4	88.0	108.2	115.4
132.5°	5.8	37.5	83.7	105.3	111.1
135°	5.8	36.1	79.4	101.0	106.8
137.5°	5.8	33.2	75.0	96.7	102.4
140°	5.8	30.3	69.3	90.9	96.7
142.5°	5.8	28.9	63.5	85.1	90.9
145°	5.8	26.0	56.3	77.9	85.1
147.5°	7.2	24.5	50.5	72.1	77.9
150°	7.2	21.6	44.7	66.4	72.1
152.5°	7.2	18.8	39.0	59.2	64.9
155°	7.2	15.9	34.6	51.9	59.2
157.5°	7.2	14.4	30.3	43.3	51.9
160°	7.2	13.0	26.0	37.5	44.7
162.5°	7.2	11.5	23.1	31.7	39.0
165°	7.2	10.1	18.8	26.0	31.7
167.5°	8.7	10.1	15.9	20.2	26.0
170°	8.7	10.1	13.0	15.9	20.2
172.5°	8.7	8.7	10.1	11.5	13.0
175°	8.7	8.7	8.7	8.7	7.2
177.5°	8.7	8.7	8.7	7.2	7.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.2	7.2	7.2	7.2	7.2

(END OF REPORT)