

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: P565952

Luminaire Tested: **4SNX-100HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565952  
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-100HL-LC-UNV-L840-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

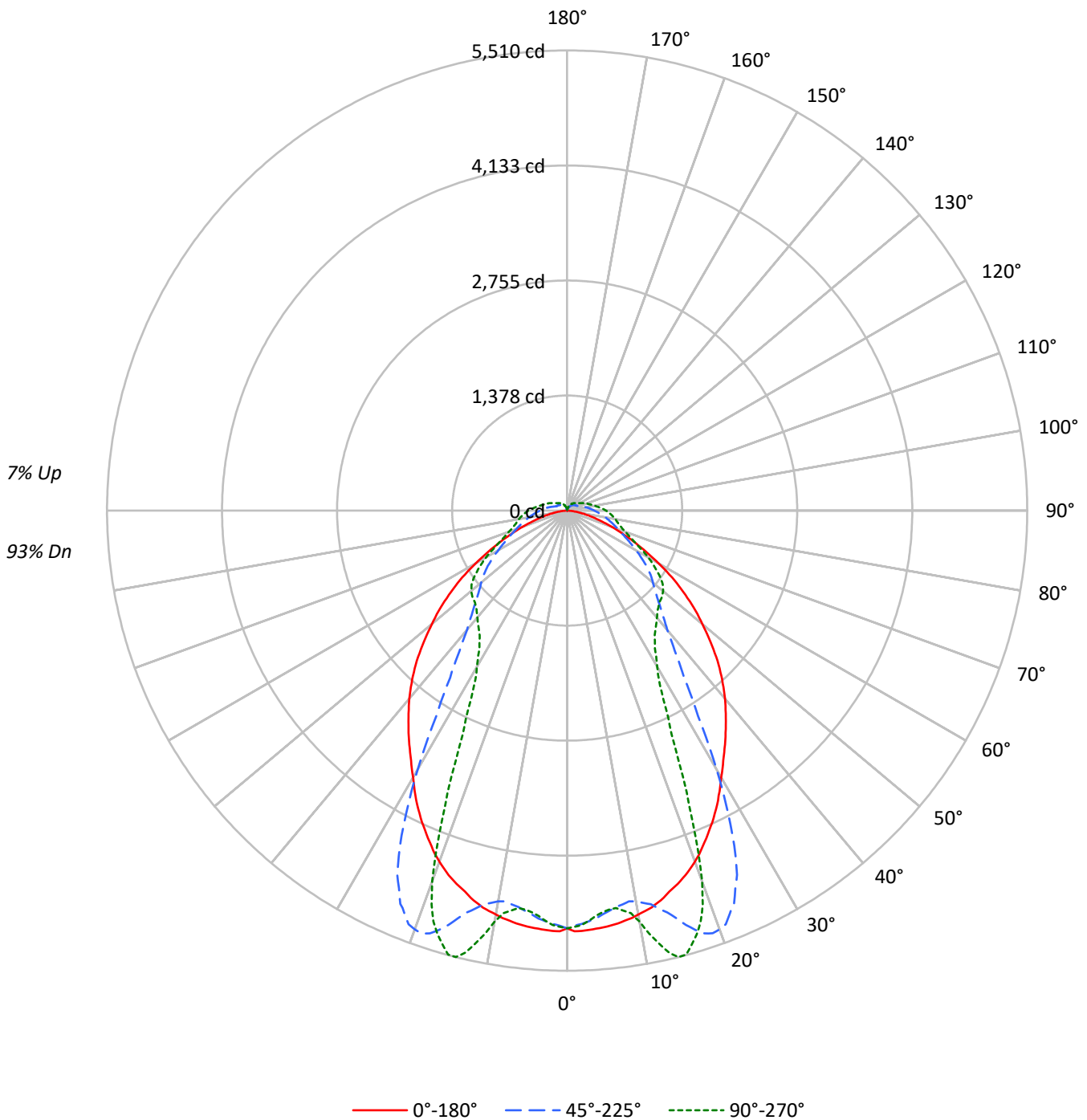
Lumens per Lamp: N/A  
Luminaire Lumens: 11121.0 lumens  
Efficiency: N/A  
Efficacy: 153.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 72.5  
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: P565952

CATALOG NUMBER: 4SNX-100HL-LC-UNV-L840-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P565952

CATALOG NUMBER: 4SNX-100HL-LC-UNV-L840-CD

**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°	53862	53862	53862
5°	53926	50269	49302
10°	53280	47730	48890
15°	52039	49647	52046
20°	50465	51704	43559
25°	47932	46346	26783
30°	44782	34492	19384
35°	42209	23787	16352
40°	39904	18445	15070
45°	37219	15688	14252
50°	33726	14066	13991
55°	30045	12706	12944
60°	25331	10981	11197
65°	20446	9550	9344
70°	15870	8568	8228
75°	12100	7949	7672
80°	8258	7508	7595
85°	4258	7140	7542



TEST NUMBER: P565952

CATALOG NUMBER: 4SNX-100HL-LC-UNV-L840-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.6	4.2
10°-20°	1422.8	12.8
20°-30°	1915.8	17.2
30°-40°	1813.1	16.3
40°-50°	1600.3	14.4
50°-60°	1299.8	11.7
60°-70°	884.0	7.9
70°-80°	568.8	5.1
80°-90°	378.2	3.4
90°-100°	259.9	2.3
100°-110°	174.5	1.6
110°-120°	123.1	1.1
120°-130°	87.9	0.8
130°-140°	62.0	0.6
140°-150°	38.5	0.3
150°-160°	18.8	0.2
160°-170°	6.6	0.1
170°-180°	1.1	0.0
0°-30°	3804.2	34.2
0°-40°	5617.3	50.5
0°-60°	8517.5	76.6
0°-90°	10348.5	93.1
90°-120°	557.5	5.0
90°-150°	746.0	6.7
90°-180°	772.0	6.9
0°-180°	11121.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5004	5004	5004	5004	5004	
5°	5009	4963	4856	4853	4829	475
15°	4722	4692	5053	5500	5505	1331
25°	4114	4878	4814	3496	2956	1888
35°	3306	4639	2445	1883	1825	2069
45°	2547	3121	1547	1528	1560	1955
55°	1696	1846	1161	1297	1346	1515
65°	874	995	778	864	891	878
75°	336	470	548	615	644	366
85°	51	200	389	492	526	67
90°	2	139	324	436	465	3
95°	2	107	273	370	396	1
105°	3	75	180	253	284	3
115°	3	64	132	188	212	4
125°	5	54	114	143	153	5
135°	7	42	93	119	126	5
145°	7	31	66	92	100	5
155°	8	19	41	61	70	4
165°	8	12	22	31	37	3
175°	10	10	10	10	8	1
180°	8	8	8	8	8	



TEST NUMBER: P565952

CATALOG NUMBER: 4SNX-100HL-LC-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5003.9	5003.9	5003.9	5003.9	5003.9
1°	5037.9	5022.6	4971.6	4998.8	4985.2
2°	5036.2	5010.7	4953.0	4983.5	4966.5
3°	5027.7	5000.5	4925.8	4944.5	4919.0
4°	5019.2	4986.9	4896.9	4896.9	4868.1
5°	5009.0	4963.2	4856.2	4852.8	4829.0
6°	4997.1	4944.5	4820.5	4817.1	4803.5
7°	4980.1	4912.2	4781.5	4805.2	4795.1
8°	4959.8	4881.6	4761.1	4820.5	4835.8
9°	4941.1	4844.3	4737.3	4868.1	4880.0
10°	4910.5	4810.3	4752.6	4963.2	4998.8
11°	4885.0	4781.5	4786.6	5056.5	5163.5
12°	4859.6	4750.9	4818.8	5173.7	5304.4
13°	4817.1	4727.1	4890.1	5301.0	5435.2
14°	4779.8	4708.5	4959.8	5430.1	5509.9
15°	4722.0	4691.5	5053.1	5499.7	5504.8
16°	4683.0	4679.6	5161.8	5504.8	5409.7
17°	4638.8	4674.5	5250.1	5416.5	5304.4
18°	4589.6	4684.7	5323.1	5306.1	5177.1
19°	4533.6	4694.9	5353.7	5153.3	4986.9
20°	4472.4	4710.2	5336.7	4993.7	4725.4
21°	4411.3	4730.5	5304.4	4825.6	4382.4
22.5°	4297.5	4779.8	5151.6	4353.6	3815.3
23°	4265.3	4790.0	5116.0	4205.9	3667.6
24°	4185.5	4832.4	4953.0	3861.2	3277.1
25°	4114.2	4878.3	4813.7	3496.1	2956.2
26°	4034.4	4912.2	4603.2	3159.9	2759.2
27°	3956.3	4932.6	4363.8	2898.4	2538.5
28°	3866.3	4954.7	4104.0	2672.6	2372.1
29°	3781.4	4958.1	3847.6	2492.6	2241.3
30°	3689.7	4941.1	3577.6	2348.3	2159.8
32.5°	3489.3	4847.7	2917.1	2073.2	1956.1
35°	3305.9	4638.8	2445.1	1883.0	1825.3
37.5°	3120.9	4309.4	2114.0	1764.2	1745.5
40°	2939.2	3918.9	1864.4	1669.1	1672.5
42.5°	2747.3	3516.5	1692.9	1591.0	1606.3
45°	2546.9	3120.9	1546.8	1528.2	1560.4
47.5°	2324.5	2759.2	1431.4	1487.4	1536.7
50°	2114.0	2400.9	1341.4	1448.4	1499.3
52.5°	1913.6	2107.2	1259.9	1382.1	1441.6
55°	1696.3	1845.7	1161.4	1297.2	1346.5
57.5°	1489.1	1609.7	1057.8	1192.0	1236.1
60°	1261.6	1377.0	952.6	1078.2	1120.7
62.5°	1056.1	1178.4	862.6	964.4	998.4
65°	874.5	995.0	777.7	864.3	891.4



TEST NUMBER: P565952

CATALOG NUMBER: 4SNX-100HL-LC-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	713.1	842.2	708.1	781.1	806.5
70°	562.0	697.9	646.9	713.1	740.3
72.5°	439.8	577.3	596.0	657.1	684.3
75°	336.2	470.3	548.4	614.7	643.5
77.5°	249.6	383.7	504.3	580.7	611.3
80°	164.7	305.6	465.2	550.1	585.8
82.5°	103.6	246.2	426.2	519.6	556.9
85°	50.9	200.4	388.8	492.4	526.4
87.5°	17.0	166.4	354.9	465.2	494.1
90°	1.7	139.2	324.3	436.4	465.2
92.5°	1.7	120.6	298.8	402.4	431.3
95°	1.7	107.0	273.4	370.2	395.6
97.5°	1.7	96.8	249.6	336.2	363.4
100°	1.7	86.6	224.1	303.9	332.8
102.5°	3.4	79.8	202.1	276.8	307.3
105°	3.4	74.7	180.0	253.0	283.6
107.5°	3.4	71.3	161.3	234.3	263.2
110°	3.4	67.9	147.7	217.3	247.9
112.5°	3.4	66.2	139.2	202.1	230.9
115°	3.4	64.5	132.4	188.5	212.2
117.5°	5.1	62.8	127.3	174.9	193.6
120°	5.1	59.4	124.0	163.0	178.3
122.5°	5.1	56.0	118.9	152.8	164.7
125°	5.1	54.3	113.8	142.6	152.8
127.5°	5.1	50.9	108.7	134.1	144.3
130°	6.8	47.5	103.6	127.3	135.8
132.5°	6.8	44.1	98.5	124.0	130.7
135°	6.8	42.4	93.4	118.9	125.6
137.5°	6.8	39.1	88.3	113.8	120.6
140°	6.8	35.7	81.5	107.0	113.8
142.5°	6.8	34.0	74.7	100.2	107.0
145°	6.8	30.6	66.2	91.7	100.2
147.5°	8.5	28.9	59.4	84.9	91.7
150°	8.5	25.5	52.6	78.1	84.9
152.5°	8.5	22.1	45.8	69.6	76.4
155°	8.5	18.7	40.8	61.1	69.6
157.5°	8.5	17.0	35.7	50.9	61.1
160°	8.5	15.3	30.6	44.1	52.6
162.5°	8.5	13.6	27.2	37.4	45.8
165°	8.5	11.9	22.1	30.6	37.4
167.5°	10.2	11.9	18.7	23.8	30.6
170°	10.2	11.9	15.3	18.7	23.8
172.5°	10.2	10.2	11.9	13.6	15.3
175°	10.2	10.2	10.2	10.2	8.5
177.5°	10.2	10.2	10.2	8.5	8.5



TEST NUMBER: P565952

CATALOG NUMBER: 4SNX-100HL-LC-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	8.5	8.5	8.5	8.5	8.5

(END OF REPORT)