

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: P565804

Luminaire Tested: **2SNX-47HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

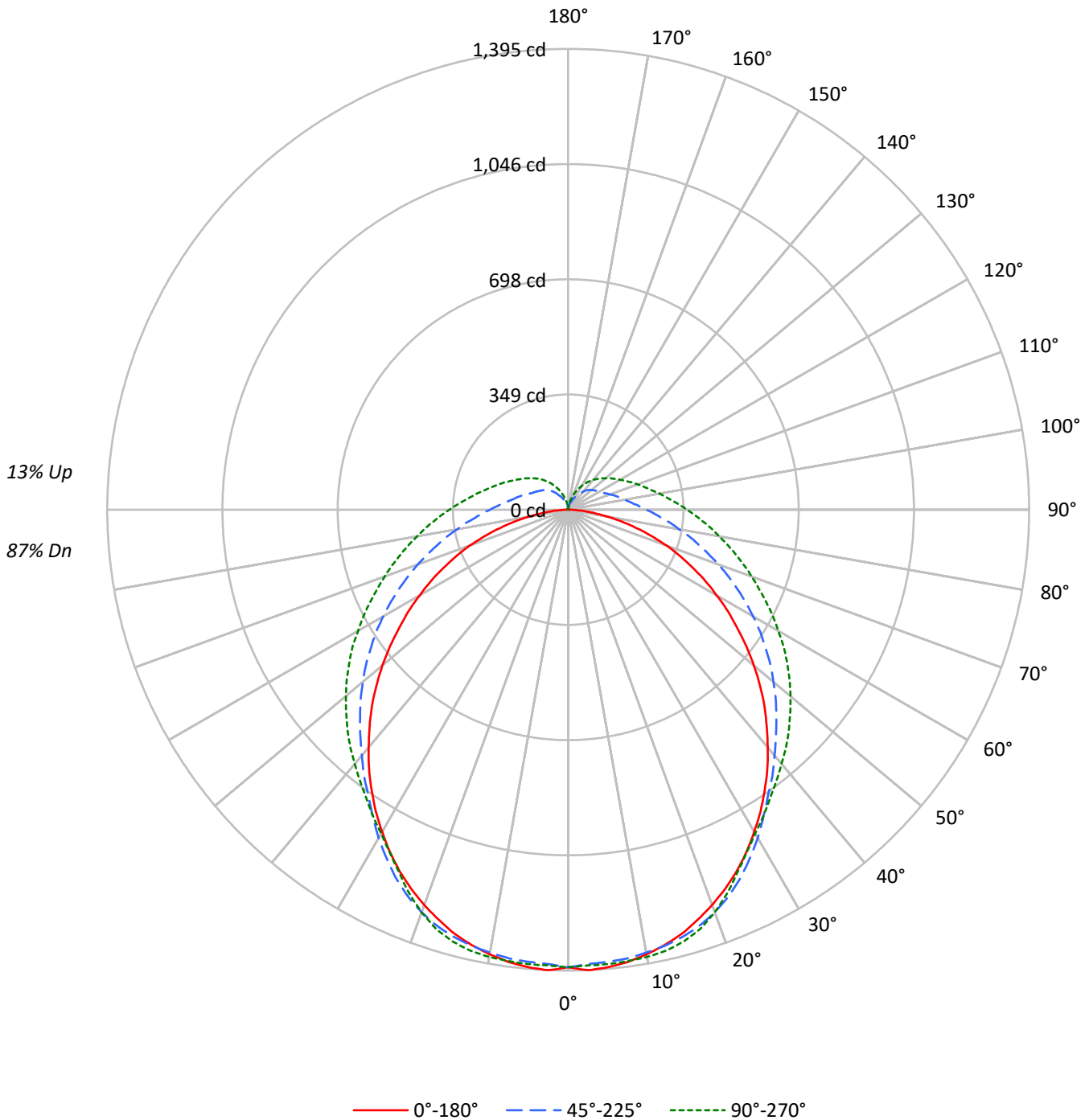
Test Method: LM-79-08  
Report Number: P565804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-47HL-LN-UNV-L840-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5000.0 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	29818	29818	29818
5°	29825	28378	28197
10°	29437	27215	26894
15°	28975	26120	25582
20°	28310	24904	23910
25°	27600	23456	21949
30°	26698	21842	20311
35°	25743	20209	19090
40°	24669	18892	18102
45°	23607	17724	17249
50°	22365	16647	16390
55°	20926	15569	15549
60°	19520	14495	14669
65°	17952	13416	13862
70°	16149	12399	13132
75°	13501	11408	12534
80°	10136	10542	12024
85°	6110	9902	11731



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.6	2.6
10°-20°	378.3	7.6
20°-30°	563.3	11.3
30°-40°	664.7	13.3
40°-50°	693.2	13.9
50°-60°	651.4	13.0
60°-70°	550.1	11.0
70°-80°	415.7	8.3
80°-90°	286.5	5.7
90°-100°	200.5	4.0
100°-110°	149.6	3.0
110°-120°	112.8	2.3
120°-130°	84.1	1.7
130°-140°	59.0	1.2
140°-150°	35.7	0.7
150°-160°	17.1	0.3
160°-170°	5.5	0.1
170°-180°	0.7	0.0
0°-30°	1073.2	21.5
0°-40°	1737.9	34.8
0°-60°	3082.6	61.7
0°-90°	4335.0	86.7
90°-120°	463.0	9.3
90°-150°	641.8	12.8
90°-180°	665.0	13.3
0°-180°	5000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1390	1388	1374	1384	1381	132
15°	1329	1335	1338	1355	1353	374
25°	1207	1232	1232	1221	1211	555
35°	1037	1075	1054	1063	1066	648
45°	840	882	891	927	944	647
55°	624	677	729	788	809	560
65°	415	482	563	637	661	412
75°	213	295	409	494	526	227
85°	48	152	283	376	409	54
90°	1	108	236	327	359	3
95°	1	84	200	286	316	1
105°	2	60	154	224	249	2
115°	2	52	120	178	201	2
125°	2	44	101	146	164	2
135°	2	34	84	119	133	2
145°	3	25	58	91	102	2
155°	3	16	36	58	67	2
165°	4	10	19	25	34	1
175°	4	4	5	5	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1385.1	1385.1	1385.1	1385.1	1385.1
2.5°	1395.3	1391.9	1376.6	1385.1	1380.9
5°	1390.2	1387.6	1374.1	1384.2	1380.9
7.5°	1380.9	1380.0	1369.8	1381.7	1378.3
10°	1366.4	1369.0	1361.4	1377.5	1374.9
12.5°	1349.5	1354.6	1352.0	1369.8	1367.3
15°	1329.1	1335.1	1338.5	1355.4	1352.9
17.5°	1302.0	1313.0	1320.7	1334.2	1330.0
20°	1273.2	1288.5	1296.9	1303.7	1296.9
22.5°	1241.8	1262.2	1267.3	1263.9	1257.1
25°	1207.1	1231.7	1231.7	1220.6	1211.3
27.5°	1168.1	1198.6	1190.1	1177.4	1169.8
30°	1125.7	1162.2	1147.7	1133.3	1131.6
32.5°	1083.3	1121.5	1100.3	1096.9	1099.4
35°	1036.7	1074.8	1054.5	1063.0	1065.5
37.5°	990.1	1028.2	1014.7	1027.4	1035.0
40°	939.2	979.9	971.4	994.3	1004.5
42.5°	889.2	931.6	930.7	960.4	975.7
45°	840.0	881.6	890.9	927.4	944.3
47.5°	786.6	829.0	851.9	894.3	911.2
50°	734.1	779.9	811.2	858.7	878.2
52.5°	679.8	728.1	771.4	823.9	844.3
55°	623.9	677.3	729.0	787.5	808.7
57.5°	573.9	628.1	689.2	749.3	773.9
60°	518.8	579.0	645.9	709.5	734.1
62.5°	468.8	530.6	605.2	672.2	698.5
65°	415.4	481.5	562.9	636.6	661.2
67.5°	366.2	434.0	523.0	597.6	624.7
70°	315.3	387.4	484.0	562.9	590.8
72.5°	262.8	339.1	445.0	528.9	557.8
75°	212.8	295.0	408.6	494.2	525.6
77.5°	166.1	252.6	375.5	463.7	494.2
80°	120.4	214.5	340.8	432.3	463.7
82.5°	79.7	181.4	312.8	404.3	437.4
85°	48.3	151.7	283.1	376.4	409.4
87.5°	22.0	127.2	259.4	351.8	384.0
90°	0.8	107.7	236.5	327.2	359.4
92.5°	0.8	94.1	217.9	306.0	337.4
95°	0.8	83.9	200.1	286.5	316.2
97.5°	0.8	77.1	186.5	267.9	296.7
100°	0.8	70.4	172.9	250.9	280.6
102.5°	1.7	64.4	162.8	235.7	263.6
105°	1.7	60.2	154.3	223.8	249.2
107.5°	1.7	57.6	145.0	211.9	235.7
110°	1.7	55.1	134.8	200.1	223.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	53.4	127.2	189.9	212.8
115°	1.7	51.7	119.5	178.0	200.9
117.5°	1.7	50.9	115.3	168.7	190.7
120°	2.5	48.3	110.2	160.2	181.4
122.5°	2.5	45.8	105.1	153.4	172.1
125°	2.5	44.1	100.9	145.8	164.4
127.5°	2.5	41.5	96.6	139.0	156.0
130°	2.5	39.0	93.2	132.2	148.3
132.5°	2.5	36.4	89.0	125.5	140.7
135°	2.5	33.9	83.9	118.7	133.1
137.5°	2.5	31.4	78.8	111.9	125.5
140°	2.5	28.8	72.1	105.1	117.8
142.5°	2.5	26.3	65.3	98.3	109.3
145°	3.4	24.6	58.5	90.7	101.7
147.5°	3.4	22.0	51.7	83.1	92.4
150°	3.4	20.3	46.6	75.4	83.9
152.5°	3.4	17.8	41.5	67.0	75.4
155°	3.4	16.1	35.6	57.6	67.0
157.5°	3.4	14.4	30.5	48.3	58.5
160°	3.4	13.6	26.3	39.8	50.0
162.5°	4.2	11.9	22.0	32.2	41.5
165°	4.2	10.2	18.6	25.4	33.9
167.5°	4.2	8.5	15.3	19.5	26.3
170°	4.2	6.8	11.9	13.6	20.3
172.5°	4.2	5.1	8.5	9.3	10.2
175°	4.2	4.2	5.1	5.1	2.5
177.5°	4.2	4.2	3.4	2.5	0.8
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)