

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: P565806

Luminaire Tested: **2SNX-47HL-LN-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

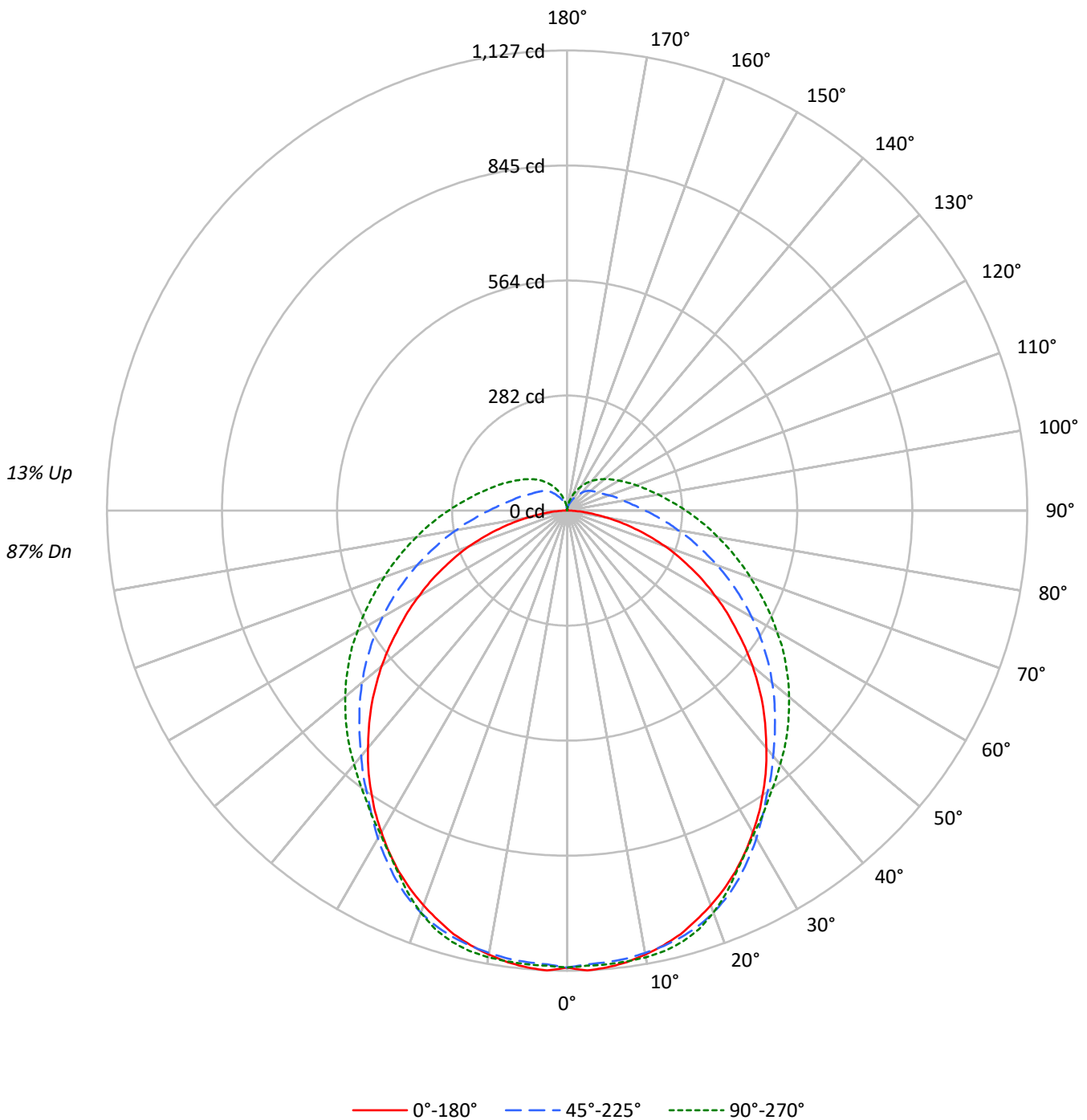
Test Method: LM-79-08  
Report Number: P565806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-47HL-LN-UNV-L930-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4040.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 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 (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

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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°	24094	24094	24094
5°	24099	22930	22782
10°	23786	21990	21730
15°	23414	21105	20670
20°	22873	20123	19319
25°	22300	18952	17734
30°	21573	17649	16413
35°	20801	16328	15425
40°	19933	15265	14626
45°	19076	14320	13938
50°	18069	13452	13243
55°	16908	12579	12563
60°	15772	11712	11851
65°	14503	10839	11200
70°	13050	10019	10612
75°	10906	9216	10125
80°	8191	8516	9714
85°	4934	8003	9479



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	2.6
10°-20°	305.7	7.6
20°-30°	455.2	11.3
30°-40°	537.1	13.3
40°-50°	560.1	13.9
50°-60°	526.4	13.0
60°-70°	444.5	11.0
70°-80°	335.9	8.3
80°-90°	231.5	5.7
90°-100°	162.0	4.0
100°-110°	120.9	3.0
110°-120°	91.1	2.3
120°-130°	68.0	1.7
130°-140°	47.7	1.2
140°-150°	28.8	0.7
150°-160°	13.8	0.3
160°-170°	4.4	0.1
170°-180°	0.5	0.0
0°-30°	867.2	21.5
0°-40°	1404.2	34.8
0°-60°	2490.7	61.7
0°-90°	3502.6	86.7
90°-120°	374.0	9.3
90°-150°	518.6	12.8
90°-180°	537.0	13.3
0°-180°	4040.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1123	1121	1110	1118	1116	107
15°	1074	1079	1082	1095	1093	302
25°	975	995	995	986	979	449
35°	838	868	852	859	861	524
45°	679	712	720	749	763	523
55°	504	547	589	636	653	452
65°	336	389	455	514	534	333
75°	172	238	330	399	425	183
85°	39	123	229	304	331	44
90°	1	87	191	264	290	3
95°	1	68	162	232	256	1
105°	1	49	125	181	201	1
115°	1	42	97	144	162	1
125°	2	36	82	118	133	2
135°	2	27	68	96	108	2
145°	3	20	47	73	82	2
155°	3	13	29	47	54	1
165°	3	8	15	20	27	1
175°	3	3	4	4	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1119.2	1119.2	1119.2	1119.2	1119.2
2.5°	1127.4	1124.6	1112.3	1119.2	1115.7
5°	1123.3	1121.2	1110.3	1118.5	1115.7
7.5°	1115.7	1115.0	1106.8	1116.4	1113.7
10°	1104.1	1106.1	1100.0	1113.0	1110.9
12.5°	1090.4	1094.5	1092.4	1106.8	1104.8
15°	1074.0	1078.7	1081.5	1095.2	1093.1
17.5°	1052.0	1060.9	1067.1	1078.1	1074.6
20°	1028.7	1041.1	1047.9	1053.4	1047.9
22.5°	1003.4	1019.8	1024.0	1021.2	1015.7
25°	975.3	995.2	995.2	986.3	978.7
27.5°	943.8	968.5	961.6	951.4	945.2
30°	909.6	939.0	927.4	915.7	914.4
32.5°	875.3	906.1	889.0	886.3	888.3
35°	837.7	868.5	852.0	858.9	860.9
37.5°	800.0	830.8	819.8	830.1	836.3
40°	758.9	791.8	784.9	803.4	811.6
42.5°	718.5	752.7	752.0	776.0	788.3
45°	678.8	712.3	719.8	749.3	763.0
47.5°	635.6	669.8	688.3	722.6	736.3
50°	593.1	630.1	655.5	693.8	709.6
52.5°	549.3	588.3	623.3	665.7	682.2
55°	504.1	547.2	589.0	636.3	653.4
57.5°	463.7	507.5	556.8	605.5	625.3
60°	419.2	467.8	521.9	573.3	593.1
62.5°	378.8	428.8	489.0	543.1	564.4
65°	335.6	389.0	454.8	514.4	534.2
67.5°	295.9	350.7	422.6	482.9	504.8
70°	254.8	313.0	391.1	454.8	477.4
72.5°	212.3	274.0	359.6	427.4	450.7
75°	171.9	238.4	330.1	399.3	424.6
77.5°	134.2	204.1	303.4	374.6	399.3
80°	97.3	173.3	275.3	349.3	374.6
82.5°	64.4	146.6	252.7	326.7	353.4
85°	39.0	122.6	228.8	304.1	330.8
87.5°	17.8	102.7	209.6	284.2	310.3
90°	0.7	87.0	191.1	264.4	290.4
92.5°	0.7	76.0	176.0	247.3	272.6
95°	0.7	67.8	161.6	231.5	255.5
97.5°	0.7	62.3	150.7	216.4	239.7
100°	0.7	56.8	139.7	202.7	226.7
102.5°	1.4	52.1	131.5	190.4	213.0
105°	1.4	48.6	124.7	180.8	201.4
107.5°	1.4	46.6	117.1	171.2	190.4
110°	1.4	44.5	108.9	161.6	180.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	43.1	102.7	153.4	171.9
115°	1.4	41.8	96.6	143.8	162.3
117.5°	1.4	41.1	93.1	136.3	154.1
120°	2.1	39.0	89.0	129.4	146.6
122.5°	2.1	37.0	84.9	124.0	139.0
125°	2.1	35.6	81.5	117.8	132.9
127.5°	2.1	33.6	78.1	112.3	126.0
130°	2.1	31.5	75.3	106.8	119.9
132.5°	2.1	29.5	71.9	101.4	113.7
135°	2.1	27.4	67.8	95.9	107.5
137.5°	2.1	25.3	63.7	90.4	101.4
140°	2.1	23.3	58.2	84.9	95.2
142.5°	2.1	21.2	52.7	79.5	88.4
145°	2.7	19.9	47.3	73.3	82.2
147.5°	2.7	17.8	41.8	67.1	74.7
150°	2.7	16.4	37.7	61.0	67.8
152.5°	2.7	14.4	33.6	54.1	61.0
155°	2.7	13.0	28.8	46.6	54.1
157.5°	2.7	11.6	24.7	39.0	47.3
160°	2.7	11.0	21.2	32.2	40.4
162.5°	3.4	9.6	17.8	26.0	33.6
165°	3.4	8.2	15.1	20.5	27.4
167.5°	3.4	6.8	12.3	15.8	21.2
170°	3.4	5.5	9.6	11.0	16.4
172.5°	3.4	4.1	6.8	7.5	8.2
175°	3.4	3.4	4.1	4.1	2.1
177.5°	3.4	3.4	2.7	2.1	0.7
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)