

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: P565814

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

Issue Date: 9/15/2022



**Test Information**

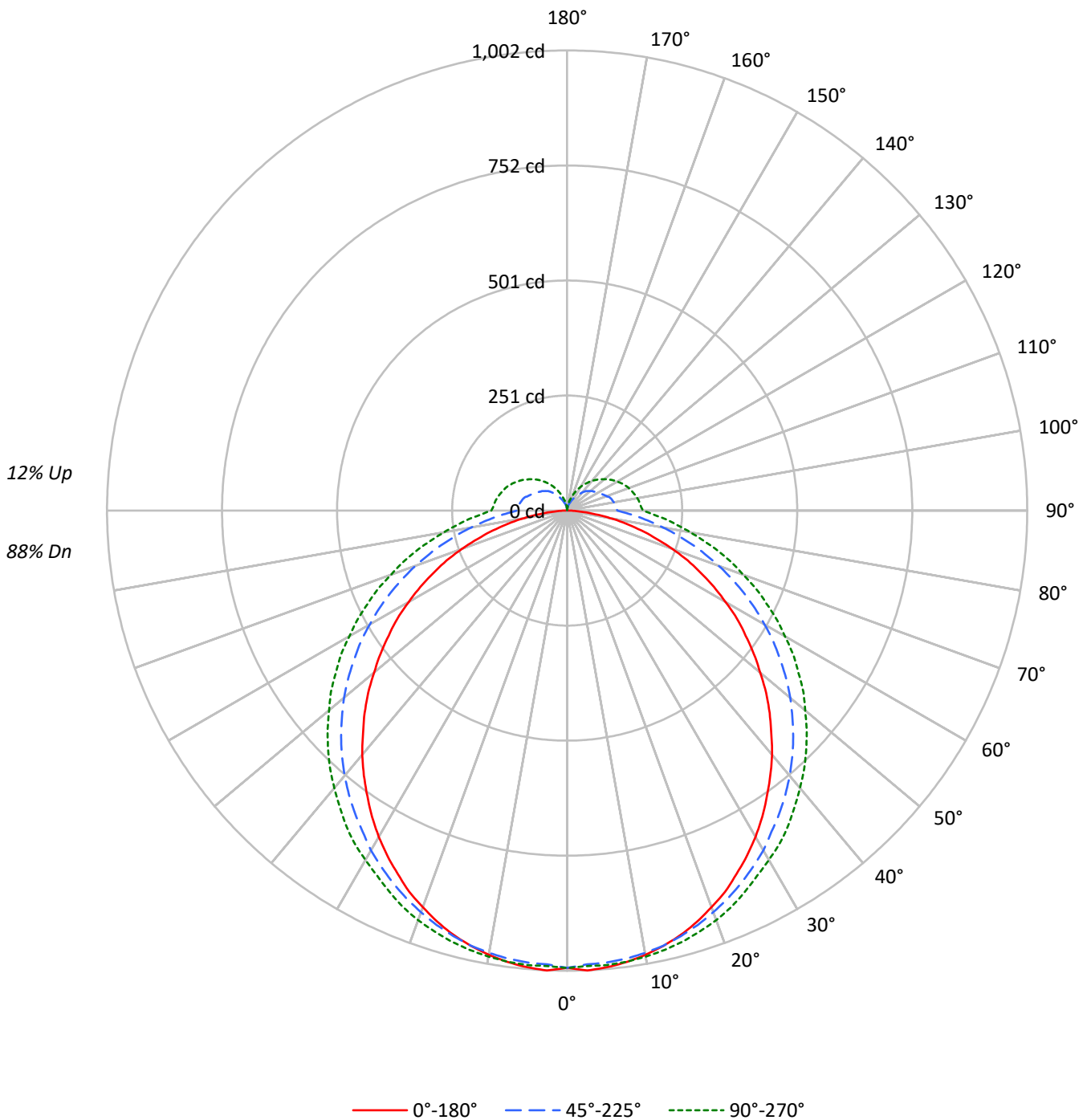
Test Method: LM-79-08  
Report Number: P565814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-47HL-LW-UNV-L930-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3585.0 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
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	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

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

	0°	45°	90°
0°	21437	21437	21437
5°	21415	20400	20282
10°	21162	19551	19287
15°	20852	18712	18376
20°	20434	17872	17498
25°	19961	17058	16598
30°	19453	16264	15769
35°	18842	15437	15025
40°	18236	14662	14217
45°	17528	13850	13446
50°	16720	13015	12626
55°	15918	12101	11815
60°	14990	11147	10942
65°	13877	10110	10040
70°	12481	8997	9060
75°	10595	7781	8124
80°	8065	6570	7053
85°	4655	5411	6158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.5	2.6
10°-20°	271.9	7.6
20°-30°	413.7	11.5
30°-40°	503.0	14.0
40°-50°	532.2	14.8
50°-60°	498.8	13.9
60°-70°	410.4	11.4
70°-80°	283.9	7.9
80°-90°	157.9	4.4
90°-100°	104.0	2.9
100°-110°	93.3	2.6
110°-120°	77.2	2.2
120°-130°	59.7	1.7
130°-140°	42.2	1.2
140°-150°	25.5	0.7
150°-160°	12.2	0.3
160°-170°	4.0	0.1
170°-180°	0.5	0.0
0°-30°	780.2	21.8
0°-40°	1283.2	35.8
0°-60°	2314.1	64.6
0°-90°	3166.3	88.3
90°-120°	274.5	7.7
90°-150°	401.9	11.2
90°-180°	419.0	11.7
0°-180°	3585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	998	996	988	996	993	95
15°	956	960	959	972	972	270
25°	873	885	896	915	916	402
35°	759	779	806	831	839	475
45°	624	656	696	728	736	481
55°	475	517	567	602	614	425
65°	321	367	424	466	479	318
75°	167	216	279	323	341	177
85°	37	92	155	198	215	42
90°	1	52	109	150	165	2
95°	1	49	106	146	160	0
105°	1	42	100	137	149	1
115°	1	37	84	122	135	1
125°	1	31	72	104	117	1
135°	1	25	60	85	96	1
145°	1	18	42	64	72	1
155°	2	12	26	41	48	1
165°	2	8	14	19	25	1
175°	2	3	4	4	2	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	995.8	995.8	995.8	995.8	995.8
2.5°	1002.5	999.5	989.0	995.8	992.7
5°	998.2	996.4	987.8	995.8	993.3
7.5°	991.5	990.9	984.1	993.3	990.9
10°	982.3	983.5	978.0	987.8	986.0
12.5°	970.6	972.4	970.0	981.0	979.8
15°	956.5	959.6	958.9	971.8	971.8
17.5°	939.3	943.6	946.0	960.8	960.8
20°	919.0	925.8	930.7	946.7	949.1
22.5°	898.8	906.8	914.1	930.7	934.4
25°	873.0	885.3	895.7	915.4	916.0
27.5°	847.8	861.3	875.4	894.5	896.3
30°	820.2	837.4	854.6	873.0	878.5
32.5°	790.7	809.8	828.8	853.3	860.7
35°	758.8	779.1	805.5	831.2	838.6
37.5°	726.9	749.6	780.3	806.7	813.4
40°	694.3	719.5	753.9	780.9	788.9
42.5°	658.1	688.8	725.7	754.5	763.7
45°	623.7	656.3	696.2	727.5	736.1
47.5°	587.5	621.9	664.9	698.0	707.8
50°	548.8	588.1	634.2	667.3	676.5
52.5°	512.6	552.5	601.0	635.4	648.3
55°	474.6	516.9	566.6	602.3	614.5
57.5°	439.0	479.5	532.9	568.5	583.8
60°	398.4	443.2	496.7	535.3	547.6
62.5°	360.4	405.8	461.1	501.0	515.1
65°	321.1	367.1	424.2	466.0	478.9
67.5°	284.2	329.7	388.0	429.1	445.7
70°	243.7	291.6	351.2	393.5	407.6
72.5°	203.8	253.5	314.3	359.8	375.7
75°	167.0	215.5	278.7	322.9	340.7
77.5°	131.4	180.5	244.3	289.8	305.1
80°	95.8	147.3	212.4	257.2	272.0
82.5°	63.2	117.3	181.7	226.5	242.5
85°	36.8	91.5	154.7	197.7	214.9
87.5°	16.0	69.4	129.5	171.9	186.0
90°	0.6	51.6	109.3	150.4	165.1
92.5°	0.6	50.3	106.8	147.3	161.5
95°	0.6	49.1	106.2	145.5	159.6
97.5°	0.6	48.5	105.0	144.3	157.8
100°	0.6	46.7	103.1	141.8	155.3
102.5°	0.6	44.2	101.3	139.4	152.3
105°	0.6	42.4	99.5	136.9	149.2
107.5°	0.6	40.5	96.4	133.8	146.1
110°	0.6	38.7	91.5	130.8	143.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	38.1	87.8	126.5	139.4
115°	1.2	36.8	84.1	121.6	135.1
117.5°	1.2	36.2	81.0	116.6	130.8
120°	1.2	34.4	78.0	112.3	125.9
122.5°	1.2	32.5	74.9	108.0	121.6
125°	1.2	31.3	71.8	103.8	116.6
127.5°	1.2	29.5	69.4	99.5	111.1
130°	1.2	28.2	66.3	94.5	106.2
132.5°	1.2	26.4	63.2	89.6	100.7
135°	1.2	24.6	60.2	85.3	95.8
137.5°	1.2	22.1	56.5	80.4	90.2
140°	1.2	20.3	51.6	75.5	84.7
142.5°	1.2	19.0	46.7	70.0	78.6
145°	1.2	17.8	41.7	64.5	72.4
147.5°	1.2	16.6	37.4	58.9	66.3
150°	1.2	14.7	33.2	54.0	60.2
152.5°	1.8	13.5	29.5	47.9	54.0
155°	1.8	12.3	25.8	41.1	47.9
157.5°	1.8	11.1	22.1	34.4	41.7
160°	1.8	9.8	19.0	28.2	35.6
162.5°	1.8	9.2	16.6	23.3	30.1
165°	1.8	8.0	14.1	19.0	24.6
167.5°	1.8	6.1	11.7	14.7	20.3
170°	1.8	4.9	9.2	10.4	15.3
172.5°	1.8	3.7	6.8	7.4	8.0
175°	1.8	3.1	4.3	4.3	2.5
177.5°	1.8	2.5	2.5	2.5	1.2
180°	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)