

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: P565813

Luminaire Tested: **2SNX-47HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

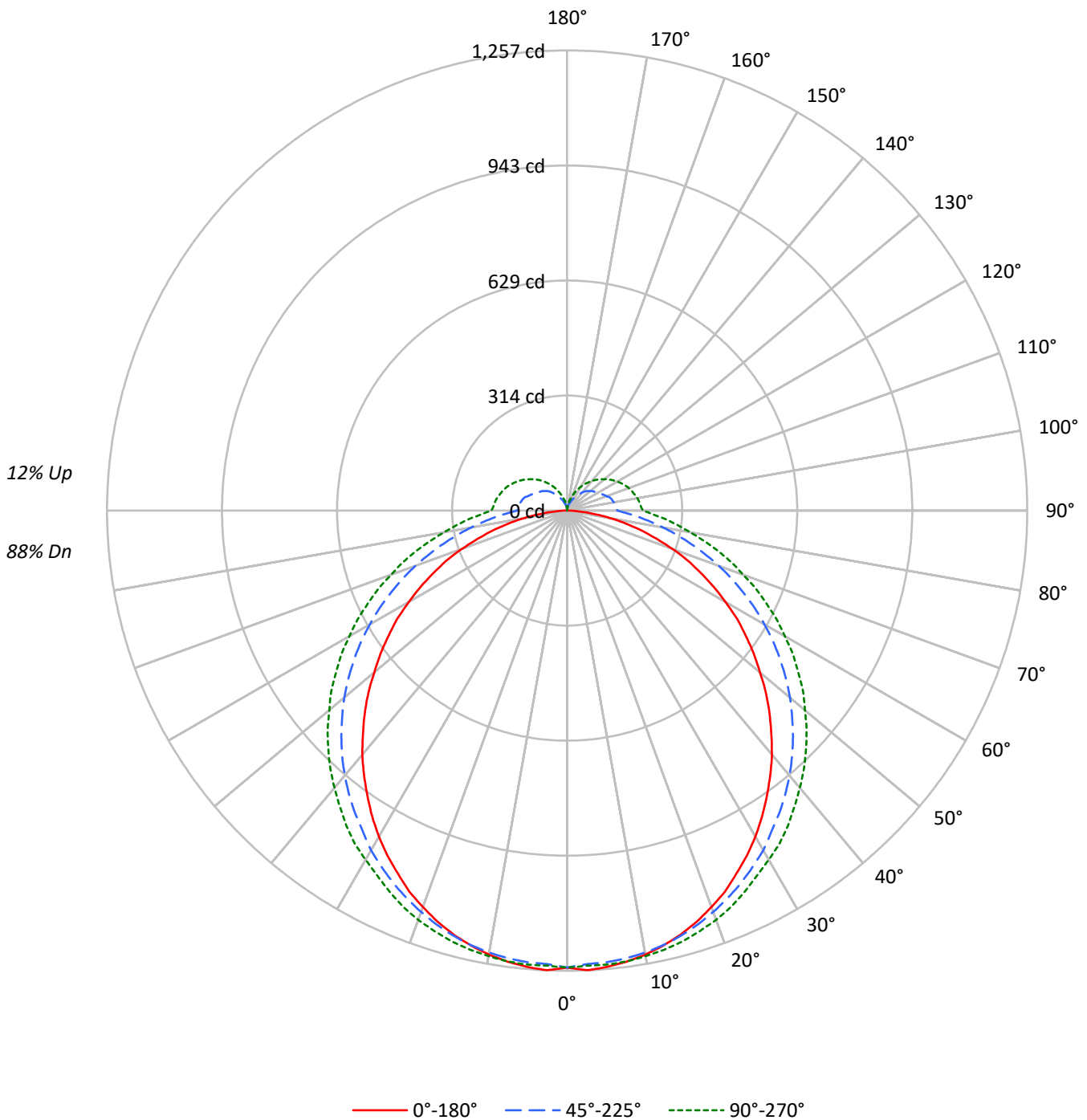
Test Method: LM-79-08  
Report Number: P565813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-47HL-LW-UNV-L850-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4494.0 lumens  
Efficiency: N/A  
Efficacy: 133.4 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 (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	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°	26873	26873	26873
5°	26845	25573	25426
10°	26526	24506	24175
15°	26139	23458	23035
20°	25617	22404	21935
25°	25021	21382	20806
30°	24386	20388	19768
35°	23620	19350	18834
40°	22862	18378	17821
45°	21974	17362	16855
50°	20960	16314	15828
55°	19953	15170	14812
60°	18794	13972	13718
65°	17394	12675	12585
70°	15647	11277	11359
75°	13279	9755	10185
80°	10111	8238	8840
85°	5845	6782	7719



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.5	2.6
10°-20°	340.9	7.6
20°-30°	518.6	11.5
30°-40°	630.5	14.0
40°-50°	667.1	14.8
50°-60°	625.3	13.9
60°-70°	514.4	11.4
70°-80°	355.9	7.9
80°-90°	197.9	4.4
90°-100°	130.4	2.9
100°-110°	116.9	2.6
110°-120°	96.8	2.2
120°-130°	74.8	1.7
130°-140°	53.0	1.2
140°-150°	31.9	0.7
150°-160°	15.3	0.3
160°-170°	5.0	0.1
170°-180°	0.6	0.0
0°-30°	978.0	21.8
0°-40°	1608.5	35.8
0°-60°	2900.9	64.6
0°-90°	3969.2	88.3
90°-120°	344.1	7.7
90°-150°	503.8	11.2
90°-180°	525.0	11.7
0°-180°	4494.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1251	1249	1238	1248	1245	119
15°	1199	1203	1202	1218	1218	338
25°	1094	1110	1123	1147	1148	504
35°	951	977	1010	1042	1051	595
45°	782	823	873	912	923	603
55°	595	648	710	755	770	533
65°	402	460	532	584	600	399
75°	209	270	349	405	427	222
85°	46	115	194	248	269	53
90°	1	65	137	188	207	3
95°	1	62	133	182	200	1
105°	1	53	125	172	187	1
115°	2	46	105	152	169	1
125°	2	39	90	130	146	1
135°	2	31	75	107	120	1
145°	2	22	52	81	91	1
155°	2	15	32	52	60	1
165°	2	10	18	24	31	1
175°	2	4	5	5	3	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1256.7	1252.9	1239.8	1248.3	1244.4
5°	1251.3	1249.0	1238.3	1248.3	1245.2
7.5°	1242.9	1242.1	1233.6	1245.2	1242.1
10°	1231.3	1232.9	1225.9	1238.3	1235.9
12.5°	1216.7	1219.0	1215.9	1229.8	1228.3
15°	1199.0	1202.9	1202.1	1218.2	1218.2
17.5°	1177.5	1182.8	1185.9	1204.4	1204.4
20°	1152.1	1160.5	1166.7	1186.7	1189.8
22.5°	1126.7	1136.7	1145.9	1166.7	1171.3
25°	1094.3	1109.7	1122.8	1147.4	1148.2
27.5°	1062.8	1079.7	1097.4	1121.3	1123.6
30°	1028.2	1049.7	1071.3	1094.3	1101.3
32.5°	991.2	1015.1	1038.9	1069.7	1079.0
35°	951.2	976.6	1009.7	1042.0	1051.2
37.5°	911.2	939.7	978.1	1011.2	1019.7
40°	870.4	901.9	945.0	978.9	988.9
42.5°	825.0	863.5	909.6	945.8	957.4
45°	781.9	822.7	872.7	912.0	922.7
47.5°	736.5	779.6	833.5	875.0	887.3
50°	688.0	737.3	795.0	836.5	848.1
52.5°	642.6	692.6	753.4	796.5	812.7
55°	594.9	648.0	710.3	755.0	770.4
57.5°	550.3	601.0	668.0	712.6	731.9
60°	499.5	555.6	622.6	671.1	686.5
62.5°	451.7	508.7	578.0	628.0	645.7
65°	402.5	460.2	531.8	584.1	600.3
67.5°	356.3	413.3	486.4	537.9	558.7
70°	305.5	365.6	440.2	493.3	511.0
72.5°	255.5	317.8	394.0	451.0	471.0
75°	209.3	270.1	349.4	404.8	427.1
77.5°	164.7	226.3	306.3	363.2	382.5
80°	120.1	184.7	266.3	322.5	340.9
82.5°	79.3	147.0	227.8	284.0	304.0
85°	46.2	114.7	193.9	247.8	269.4
87.5°	20.0	87.0	162.4	215.5	233.2
90°	0.8	64.6	137.0	188.5	207.0
92.5°	0.8	63.1	133.9	184.7	202.4
95°	0.8	61.6	133.1	182.4	200.1
97.5°	0.8	60.8	131.6	180.9	197.8
100°	0.8	58.5	129.3	177.8	194.7
102.5°	0.8	55.4	127.0	174.7	190.9
105°	0.8	53.1	124.7	171.6	187.0
107.5°	0.8	50.8	120.8	167.8	183.2
110°	0.8	48.5	114.7	163.9	179.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	47.7	110.1	158.5	174.7
115°	1.5	46.2	105.4	152.4	169.3
117.5°	1.5	45.4	101.6	146.2	163.9
120°	1.5	43.1	97.7	140.8	157.8
122.5°	1.5	40.8	93.9	135.4	152.4
125°	1.5	39.2	90.0	130.1	146.2
127.5°	1.5	36.9	87.0	124.7	139.3
130°	1.5	35.4	83.1	118.5	133.1
132.5°	1.5	33.1	79.3	112.4	126.2
135°	1.5	30.8	75.4	107.0	120.1
137.5°	1.5	27.7	70.8	100.8	113.1
140°	1.5	25.4	64.6	94.7	106.2
142.5°	1.5	23.9	58.5	87.7	98.5
145°	1.5	22.3	52.3	80.8	90.8
147.5°	1.5	20.8	46.9	73.9	83.1
150°	1.5	18.5	41.6	67.7	75.4
152.5°	2.3	16.9	36.9	60.0	67.7
155°	2.3	15.4	32.3	51.6	60.0
157.5°	2.3	13.9	27.7	43.1	52.3
160°	2.3	12.3	23.9	35.4	44.6
162.5°	2.3	11.5	20.8	29.2	37.7
165°	2.3	10.0	17.7	23.9	30.8
167.5°	2.3	7.7	14.6	18.5	25.4
170°	2.3	6.2	11.5	13.1	19.2
172.5°	2.3	4.6	8.5	9.2	10.0
175°	2.3	3.8	5.4	5.4	3.1
177.5°	2.3	3.1	3.1	3.1	1.5
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)