

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: P565820

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565820  
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-SLW-UNV-L840-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

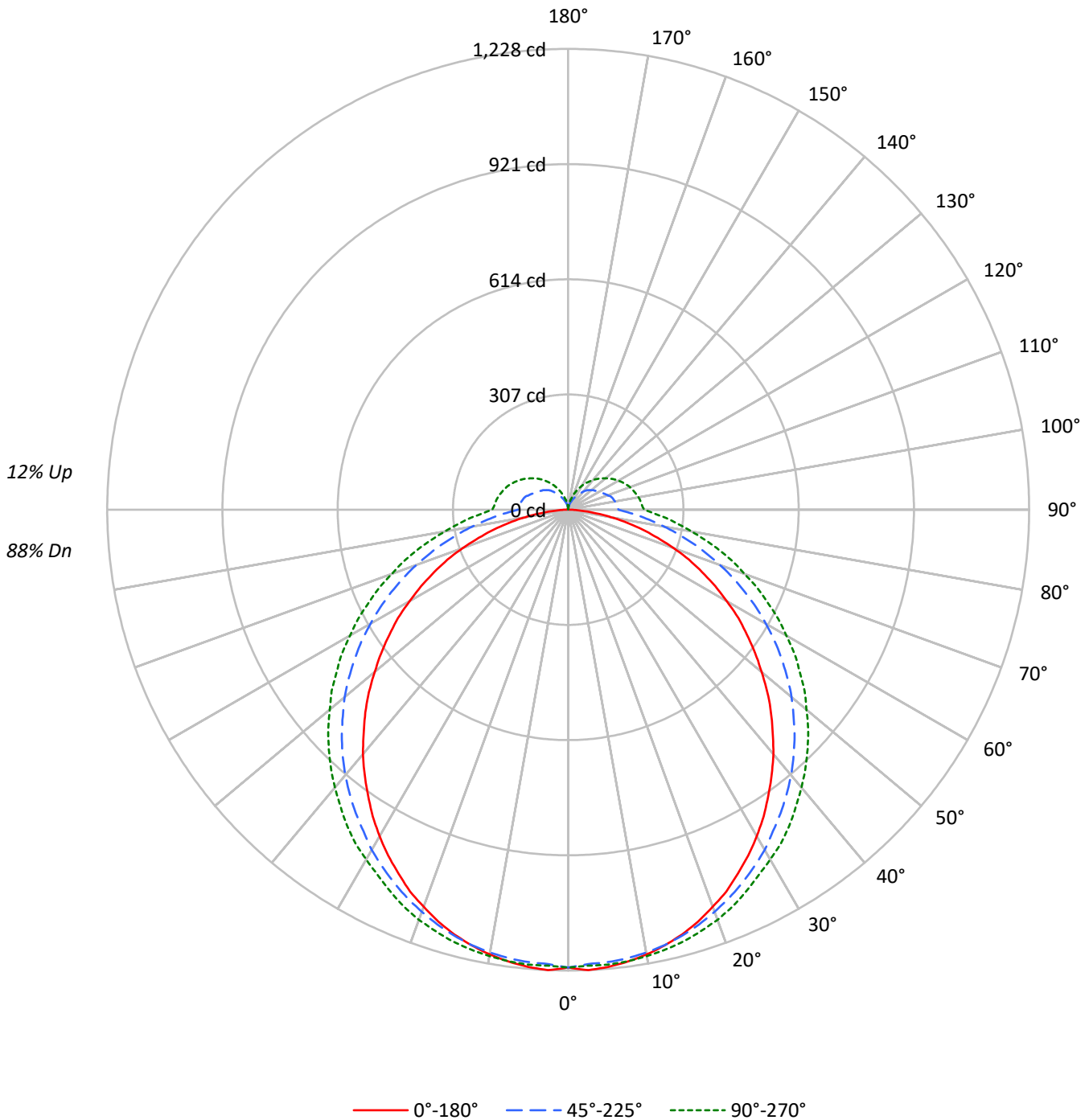
Lumens per Lamp: N/A  
Luminaire Lumens: 4392.0 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.08')  
CIE Type: Semi-Direct

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°	26262	26262	26262
5°	26331	25562	25555
10°	26115	25025	24944
15°	25829	24453	24367
20°	25410	23831	23767
25°	24922	23207	23082
30°	24393	22581	22451
35°	23741	21886	21908
40°	23100	21247	21243
45°	22336	20541	20612
50°	21458	19790	19889
55°	20601	18919	19169
60°	19606	17976	18340
65°	18402	16901	17454
70°	16871	15692	16439
75°	14736	14305	15506
80°	11772	12915	14329
85°	7556	11647	13559



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.8	2.6
10°-20°	333.1	7.6
20°-30°	506.8	11.5
30°-40°	616.2	14.0
40°-50°	652.0	14.8
50°-60°	611.1	13.9
60°-70°	502.7	11.4
70°-80°	347.9	7.9
80°-90°	193.4	4.4
90°-100°	127.4	2.9
100°-110°	114.3	2.6
110°-120°	94.6	2.2
120°-130°	73.1	1.7
130°-140°	51.8	1.2
140°-150°	31.2	0.7
150°-160°	15.0	0.3
160°-170°	4.9	0.1
170°-180°	0.6	0.0
0°-30°	955.8	21.8
0°-40°	1572.0	35.8
0°-60°	2835.1	64.6
0°-90°	3879.1	88.3
90°-120°	336.3	7.7
90°-150°	492.4	11.2
90°-180°	513.0	11.7
0°-180°	4392.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1223	1221	1210	1220	1217	116
15°	1172	1176	1175	1191	1191	330
25°	1070	1084	1097	1121	1122	493
35°	930	954	987	1018	1027	582
45°	764	804	853	891	902	589
55°	581	633	694	738	753	520
65°	393	450	520	571	587	390
75°	205	264	342	396	417	217
85°	45	112	190	242	263	52
90°	1	63	134	184	202	3
95°	1	60	130	178	196	1
105°	1	52	122	168	183	1
115°	2	45	103	149	166	1
125°	2	38	88	127	143	1
135°	2	30	74	104	117	1
145°	2	22	51	79	89	1
155°	2	15	32	50	59	1
165°	2	10	17	23	30	1
175°	2	4	5	5	3	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 2SNX-47HL-SLW-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1219.9	1219.9	1219.9	1219.9	1219.9
2.5°	1228.2	1224.4	1211.7	1219.9	1216.2
5°	1222.9	1220.7	1210.2	1219.9	1216.9
7.5°	1214.7	1213.9	1205.6	1216.9	1213.9
10°	1203.4	1204.9	1198.1	1210.2	1207.9
12.5°	1189.1	1191.3	1188.3	1201.9	1200.4
15°	1171.8	1175.6	1174.8	1190.6	1190.6
17.5°	1150.7	1156.0	1159.0	1177.1	1177.1
20°	1125.9	1134.2	1140.2	1159.8	1162.8
22.5°	1101.1	1110.9	1119.9	1140.2	1144.7
25°	1069.5	1084.5	1097.3	1121.4	1122.2
27.5°	1038.7	1055.2	1072.5	1095.8	1098.1
30°	1004.8	1025.9	1046.9	1069.5	1076.3
32.5°	968.7	992.0	1015.4	1045.4	1054.5
35°	929.6	954.4	986.8	1018.4	1027.4
37.5°	890.5	918.3	955.9	988.3	996.6
40°	850.6	881.5	923.6	956.7	966.5
42.5°	806.3	843.9	889.0	924.3	935.6
45°	764.1	804.0	852.9	891.3	901.8
47.5°	719.8	761.9	814.5	855.2	867.2
50°	672.4	720.5	776.9	817.5	828.8
52.5°	628.0	676.9	736.3	778.4	794.2
55°	581.4	633.3	694.2	737.8	752.9
57.5°	537.8	587.4	652.8	696.5	715.3
60°	488.1	543.0	608.5	655.8	670.9
62.5°	441.5	497.1	564.8	613.7	631.0
65°	393.4	449.8	519.7	570.9	586.6
67.5°	348.2	403.9	475.3	525.7	546.0
70°	298.6	357.3	430.2	482.1	499.4
72.5°	249.7	310.6	385.1	440.7	460.3
75°	204.6	264.0	341.5	395.6	417.4
77.5°	161.0	221.1	299.3	355.0	373.8
80°	117.3	180.5	260.2	315.1	333.2
82.5°	77.5	143.7	222.6	277.5	297.1
85°	45.1	112.1	189.5	242.2	263.2
87.5°	19.6	85.0	158.7	210.6	227.9
90°	0.8	63.2	133.9	184.3	202.3
92.5°	0.8	61.7	130.9	180.5	197.8
95°	0.8	60.2	130.1	178.3	195.5
97.5°	0.8	59.4	128.6	176.7	193.3
100°	0.8	57.2	126.4	173.7	190.3
102.5°	0.8	54.2	124.1	170.7	186.5
105°	0.8	51.9	121.8	167.7	182.8
107.5°	0.8	49.6	118.1	164.0	179.0
110°	0.8	47.4	112.1	160.2	175.2



TEST NUMBER: P565820

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	46.6	107.6	154.9	170.7
115°	1.5	45.1	103.0	148.9	165.5
117.5°	1.5	44.4	99.3	142.9	160.2
120°	1.5	42.1	95.5	137.6	154.2
122.5°	1.5	39.9	91.8	132.4	148.9
125°	1.5	38.4	88.0	127.1	142.9
127.5°	1.5	36.1	85.0	121.8	136.1
130°	1.5	34.6	81.2	115.8	130.1
132.5°	1.5	32.3	77.5	109.8	123.3
135°	1.5	30.1	73.7	104.5	117.3
137.5°	1.5	27.1	69.2	98.5	110.6
140°	1.5	24.8	63.2	92.5	103.8
142.5°	1.5	23.3	57.2	85.7	96.3
145°	1.5	21.8	51.1	79.0	88.7
147.5°	1.5	20.3	45.9	72.2	81.2
150°	1.5	18.1	40.6	66.2	73.7
152.5°	2.3	16.5	36.1	58.7	66.2
155°	2.3	15.0	31.6	50.4	58.7
157.5°	2.3	13.5	27.1	42.1	51.1
160°	2.3	12.0	23.3	34.6	43.6
162.5°	2.3	11.3	20.3	28.6	36.9
165°	2.3	9.8	17.3	23.3	30.1
167.5°	2.3	7.5	14.3	18.1	24.8
170°	2.3	6.0	11.3	12.8	18.8
172.5°	2.3	4.5	8.3	9.0	9.8
175°	2.3	3.8	5.3	5.3	3.0
177.5°	2.3	3.0	3.0	3.0	1.5
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)