

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: P565808

Luminaire Tested: **2SNX-47HL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565808  
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-L940-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

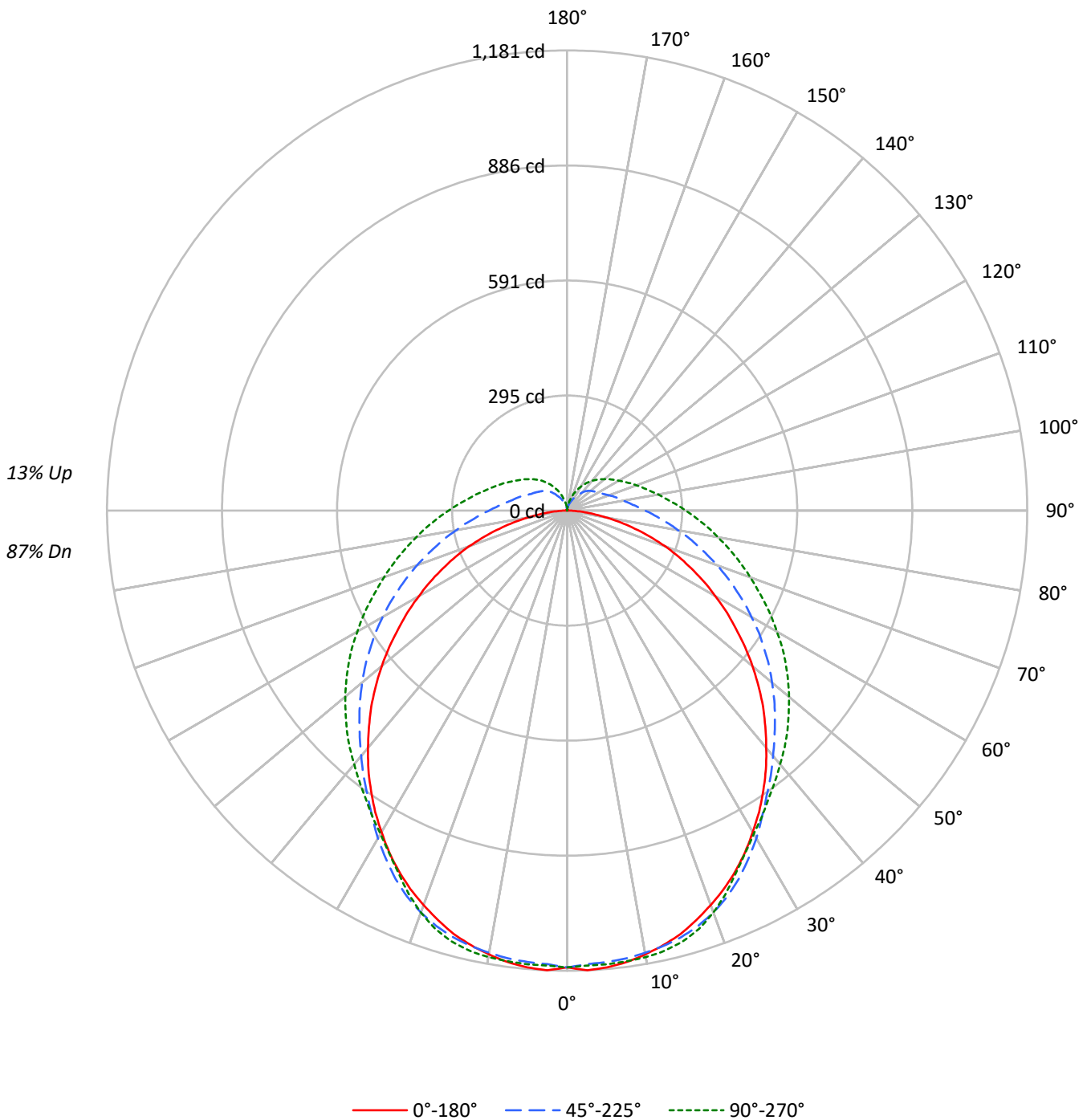
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4232.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 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

TEST NUMBER: P565808  
CATALOG NUMBER: 2SNX-47HL-LN-UNV-L940-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P565808

CATALOG NUMBER: 2SNX-47HL-LN-UNV-L940-CD

**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°	25237	25237	25237
5°	25242	24018	23866
10°	24917	23035	22763
15°	24526	22108	21653
20°	23960	21079	20237
25°	23361	19853	18579
30°	22598	18489	17192
35°	21790	17104	16159
40°	20881	15990	15322
45°	19981	15002	14601
50°	18928	14090	13872
55°	17713	13177	13161
60°	16521	12269	12415
65°	15195	11354	11732
70°	13670	10495	11116
75°	11426	9654	10607
80°	8579	8921	10178
85°	5174	8381	9929



TEST NUMBER: P565808

CATALOG NUMBER: 2SNX-47HL-LN-UNV-L940-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	2.6
10°-20°	320.2	7.6
20°-30°	476.8	11.3
30°-40°	562.6	13.3
40°-50°	586.8	13.9
50°-60°	551.4	13.0
60°-70°	465.6	11.0
70°-80°	351.8	8.3
80°-90°	242.5	5.7
90°-100°	169.7	4.0
100°-110°	126.6	3.0
110°-120°	95.5	2.3
120°-130°	71.2	1.7
130°-140°	50.0	1.2
140°-150°	30.2	0.7
150°-160°	14.5	0.3
160°-170°	4.6	0.1
170°-180°	0.6	0.0
0°-30°	908.4	21.5
0°-40°	1471.0	34.8
0°-60°	2609.1	61.7
0°-90°	3669.1	86.7
90°-120°	391.8	9.3
90°-150°	543.2	12.8
90°-180°	563.0	13.3
0°-180°	4232.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1177	1174	1163	1172	1169	112
15°	1125	1130	1133	1147	1145	317
25°	1022	1042	1042	1033	1025	470
35°	878	910	892	900	902	549
45°	711	746	754	785	799	548
55°	528	573	617	666	684	474
65°	352	408	476	539	560	349
75°	180	250	346	418	445	192
85°	41	128	240	319	346	46
90°	1	91	200	277	304	3
95°	1	71	169	242	268	1
105°	1	51	131	189	211	1
115°	1	44	101	151	170	1
125°	2	37	85	123	139	2
135°	2	29	71	100	113	2
145°	3	21	50	77	86	2
155°	3	14	30	49	57	1
165°	4	9	16	22	29	1
175°	4	4	4	4	2	0
180°	2	2	2	2	2	



TEST NUMBER: P565808

CATALOG NUMBER: 2SNX-47HL-LN-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1181.0	1178.1	1165.2	1172.3	1168.8
5°	1176.6	1174.5	1163.0	1171.6	1168.8
7.5°	1168.8	1168.0	1159.4	1169.5	1166.6
10°	1156.6	1158.7	1152.3	1165.9	1163.7
12.5°	1142.2	1146.5	1144.4	1159.4	1157.3
15°	1125.0	1130.0	1132.9	1147.2	1145.1
17.5°	1102.0	1111.4	1117.8	1129.3	1125.7
20°	1077.6	1090.6	1097.7	1103.5	1097.7
22.5°	1051.1	1068.3	1072.6	1069.7	1064.0
25°	1021.7	1042.5	1042.5	1033.2	1025.3
27.5°	988.7	1014.5	1007.3	996.6	990.1
30°	952.8	983.6	971.5	959.3	957.8
32.5°	916.9	949.2	931.3	928.4	930.6
35°	877.5	909.7	892.5	899.7	901.9
37.5°	838.0	870.3	858.8	869.6	876.0
40°	795.0	829.4	822.2	841.6	850.2
42.5°	752.6	788.5	787.8	812.9	825.8
45°	711.0	746.2	754.1	784.9	799.3
47.5°	665.8	701.7	721.1	756.9	771.3
50°	621.3	660.1	686.6	726.8	743.3
52.5°	575.4	616.3	652.9	697.4	714.6
55°	528.1	573.3	617.0	666.5	684.5
57.5°	485.7	531.6	583.3	634.2	655.0
60°	439.1	490.0	546.7	600.5	621.3
62.5°	396.8	449.1	512.3	569.0	591.2
65°	351.6	407.5	476.4	538.8	559.6
67.5°	309.9	367.3	442.7	505.8	528.8
70°	266.9	327.9	409.7	476.4	500.1
72.5°	222.4	287.0	376.7	447.7	472.1
75°	180.1	249.7	345.8	418.3	444.8
77.5°	140.6	213.8	317.8	392.5	418.3
80°	101.9	181.5	288.4	365.9	392.5
82.5°	67.4	153.5	264.7	342.2	370.2
85°	40.9	128.4	239.6	318.6	346.5
87.5°	18.7	107.6	219.5	297.7	325.0
90°	0.7	91.1	200.2	276.9	304.2
92.5°	0.7	79.6	184.4	259.0	285.6
95°	0.7	71.0	169.3	242.5	267.6
97.5°	0.7	65.3	157.8	226.7	251.1
100°	0.7	59.5	146.4	212.4	237.5
102.5°	1.4	54.5	137.8	199.5	223.1
105°	1.4	50.9	130.6	189.4	210.9
107.5°	1.4	48.8	122.7	179.4	199.5
110°	1.4	46.6	114.1	169.3	189.4



TEST NUMBER: P565808

CATALOG NUMBER: 2SNX-47HL-LN-UNV-L940-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	45.2	107.6	160.7	180.1
115°	1.4	43.8	101.2	150.7	170.0
117.5°	1.4	43.0	97.6	142.8	161.4
120°	2.2	40.9	93.3	135.6	153.5
122.5°	2.2	38.7	89.0	129.9	145.6
125°	2.2	37.3	85.4	123.4	139.2
127.5°	2.2	35.2	81.8	117.7	132.0
130°	2.2	33.0	78.9	111.9	125.6
132.5°	2.2	30.9	75.3	106.2	119.1
135°	2.2	28.7	71.0	100.4	112.6
137.5°	2.2	26.5	66.7	94.7	106.2
140°	2.2	24.4	61.0	89.0	99.7
142.5°	2.2	22.2	55.2	83.2	92.6
145°	2.9	20.8	49.5	76.8	86.1
147.5°	2.9	18.7	43.8	70.3	78.2
150°	2.9	17.2	39.5	63.9	71.0
152.5°	2.9	15.1	35.2	56.7	63.9
155°	2.9	13.6	30.1	48.8	56.7
157.5°	2.9	12.2	25.8	40.9	49.5
160°	2.9	11.5	22.2	33.7	42.3
162.5°	3.6	10.0	18.7	27.3	35.2
165°	3.6	8.6	15.8	21.5	28.7
167.5°	3.6	7.2	12.9	16.5	22.2
170°	3.6	5.7	10.0	11.5	17.2
172.5°	3.6	4.3	7.2	7.9	8.6
175°	3.6	3.6	4.3	4.3	2.2
177.5°	3.6	3.6	2.9	2.2	0.7
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)