

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: P566937

Luminaire Tested: **4SNX-87HL-SLW-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566937  
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: 4SNX-87HL-SLW-UNV-L850-CD  
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

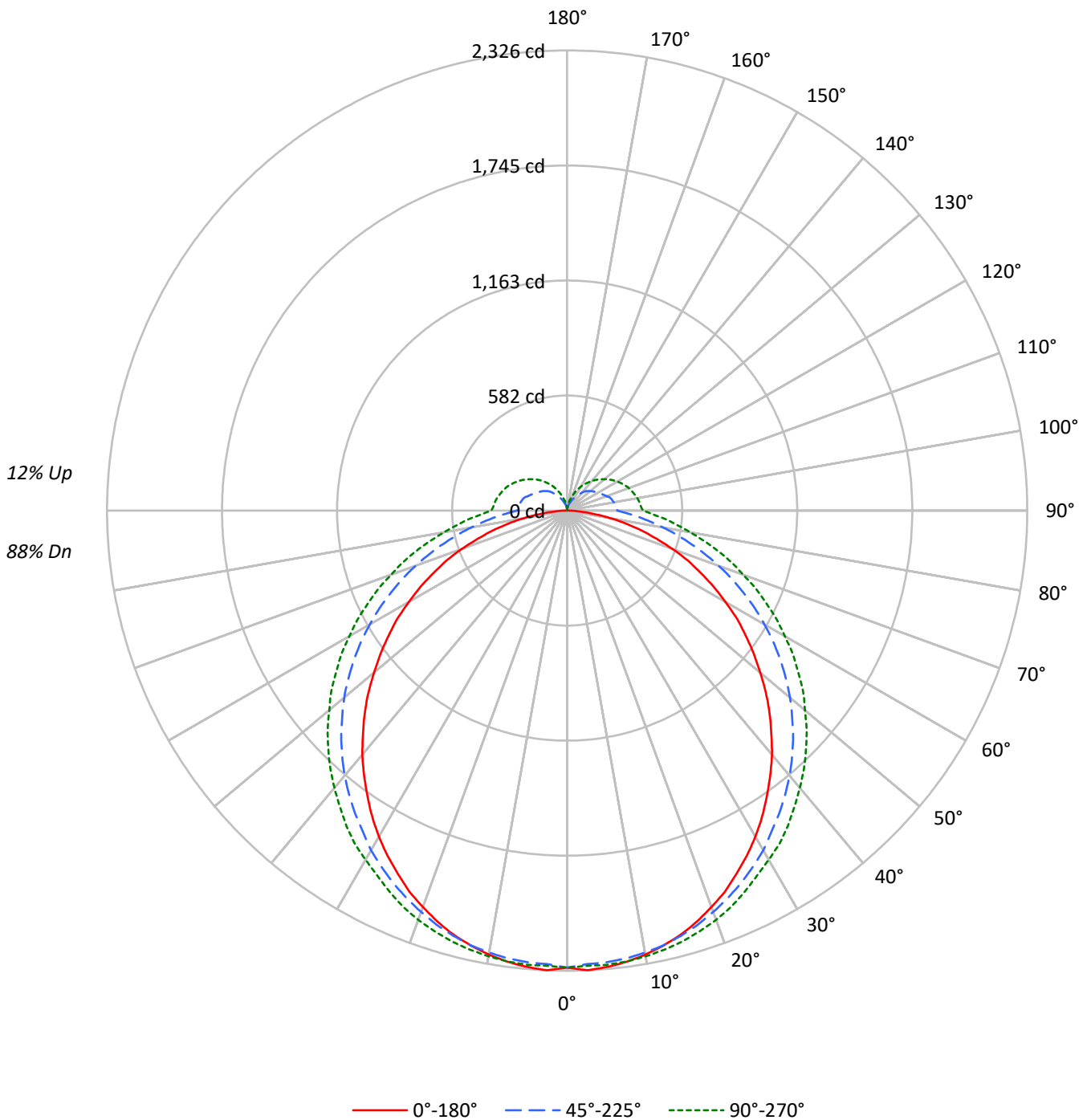
Lumens per Lamp: N/A  
Luminaire Lumens: 8316.9 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 62.2  
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: P566937

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566937

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L850-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	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°	24866	24866	24866
5°	24977	24232	24196
10°	24816	23753	23619
15°	24591	23238	23072
20°	24240	22675	22503
25°	23823	22108	21855
30°	23370	21540	21257
35°	22801	20903	20742
40°	22246	20322	20113
45°	21579	19678	19516
50°	20808	18992	18831
55°	20065	18190	18150
60°	19208	17321	17364
65°	18164	16331	16527
70°	16834	15214	15565
75°	14953	13927	14683
80°	12323	12651	13566
85°	8535	11510	12840



TEST NUMBER: P566937

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.3	2.6
10°-20°	630.9	7.6
20°-30°	959.7	11.5
30°-40°	1166.9	14.0
40°-50°	1234.6	14.8
50°-60°	1157.3	13.9
60°-70°	952.0	11.4
70°-80°	658.7	7.9
80°-90°	366.3	4.4
90°-100°	241.3	2.9
100°-110°	216.4	2.6
110°-120°	179.1	2.2
120°-130°	138.5	1.7
130°-140°	98.0	1.2
140°-150°	59.1	0.7
150°-160°	28.4	0.3
160°-170°	9.3	0.1
170°-180°	1.1	0.0
0°-30°	1809.9	21.8
0°-40°	2976.8	35.8
0°-60°	5368.7	64.6
0°-90°	7345.7	88.3
90°-120°	636.8	7.7
90°-150°	932.4	11.2
90°-180°	971.0	11.7
0°-180°	8316.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2310	2310	2310	2310	2310	
5°	2316	2312	2292	2310	2304	220
15°	2219	2226	2225	2255	2255	625
25°	2025	2054	2078	2124	2125	934
35°	1760	1807	1869	1928	1946	1102
45°	1447	1522	1615	1688	1708	1115
55°	1101	1199	1315	1397	1426	986
65°	745	852	984	1081	1111	739
75°	387	500	647	749	790	411
85°	86	212	359	459	498	98
90°	1	120	254	349	383	6
95°	1	114	246	338	370	1
105°	1	98	231	318	346	1
115°	3	86	195	282	313	2
125°	3	73	167	241	271	3
135°	3	57	140	198	222	2
145°	3	41	97	150	168	2
155°	4	28	60	95	111	2
165°	4	18	33	44	57	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



TEST NUMBER: P566937

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2310.1	2310.1	2310.1	2310.1	2310.1
2.5°	2325.8	2318.7	2294.5	2310.1	2303.0
5°	2315.8	2311.6	2291.6	2310.1	2304.4
7.5°	2300.2	2298.7	2283.1	2304.4	2298.7
10°	2278.8	2281.7	2268.8	2291.6	2287.4
12.5°	2251.7	2256.0	2250.3	2276.0	2273.1
15°	2219.0	2226.1	2224.7	2254.6	2254.6
17.5°	2179.1	2189.1	2194.8	2229.0	2229.0
20°	2132.1	2147.8	2159.2	2196.2	2201.9
22.5°	2085.1	2103.6	2120.7	2159.2	2167.7
25°	2025.3	2053.8	2078.0	2123.6	2125.0
27.5°	1966.9	1998.2	2031.0	2075.1	2079.4
30°	1902.8	1942.7	1982.6	2025.3	2038.1
32.5°	1834.4	1878.6	1922.7	1979.7	1996.8
35°	1760.4	1807.4	1868.6	1928.4	1945.5
37.5°	1686.3	1739.0	1810.2	1871.5	1887.1
40°	1610.8	1669.2	1749.0	1811.7	1830.2
42.5°	1526.8	1598.0	1683.5	1750.4	1771.8
45°	1447.0	1522.5	1615.1	1687.7	1707.7
47.5°	1363.0	1442.8	1542.5	1619.4	1642.2
50°	1273.3	1364.4	1471.3	1548.2	1569.5
52.5°	1189.3	1281.8	1394.3	1474.1	1504.0
55°	1100.9	1199.2	1314.6	1397.2	1425.7
57.5°	1018.3	1112.3	1236.3	1318.9	1354.5
60°	924.3	1028.3	1152.2	1242.0	1270.4
62.5°	836.0	941.4	1069.6	1162.2	1194.9
65°	744.9	851.7	984.2	1081.0	1110.9
67.5°	659.4	764.8	900.1	995.6	1034.0
70°	565.4	676.5	814.7	912.9	945.7
72.5°	472.9	588.2	729.2	834.6	871.6
75°	387.4	499.9	646.6	749.2	790.5
77.5°	304.8	418.7	566.9	672.2	707.9
80°	222.2	341.8	492.8	596.8	630.9
82.5°	146.7	272.0	421.6	525.5	562.6
85°	85.5	212.2	358.9	458.6	498.5
87.5°	37.0	160.9	300.5	398.8	431.5
90°	1.4	119.6	253.5	348.9	383.1
92.5°	1.4	116.8	247.8	341.8	374.6
95°	1.4	113.9	246.4	337.5	370.3
97.5°	1.4	112.5	243.5	334.7	366.0
100°	1.4	108.2	239.3	329.0	360.3
102.5°	1.4	102.5	235.0	323.3	353.2
105°	1.4	98.3	230.7	317.6	346.1
107.5°	1.4	94.0	223.6	310.5	339.0
110°	1.4	89.7	212.2	303.4	331.9



TEST NUMBER: P566937

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	88.3	203.7	293.4	323.3
115°	2.8	85.5	195.1	282.0	313.3
117.5°	2.8	84.0	188.0	270.6	303.4
120°	2.8	79.8	180.9	260.6	292.0
122.5°	2.8	75.5	173.8	250.7	282.0
125°	2.8	72.6	166.6	240.7	270.6
127.5°	2.8	68.4	160.9	230.7	257.8
130°	2.8	65.5	153.8	219.3	246.4
132.5°	2.8	61.2	146.7	207.9	233.6
135°	2.8	57.0	139.6	198.0	222.2
137.5°	2.8	51.3	131.0	186.6	209.4
140°	2.8	47.0	119.6	175.2	196.5
142.5°	2.8	44.2	108.2	162.4	182.3
145°	2.8	41.3	96.8	149.5	168.1
147.5°	2.8	38.5	86.9	136.7	153.8
150°	2.8	34.2	76.9	125.3	139.6
152.5°	4.3	31.3	68.4	111.1	125.3
155°	4.3	28.5	59.8	95.4	111.1
157.5°	4.3	25.6	51.3	79.8	96.8
160°	4.3	22.8	44.2	65.5	82.6
162.5°	4.3	21.4	38.5	54.1	69.8
165°	4.3	18.5	32.8	44.2	57.0
167.5°	4.3	14.2	27.1	34.2	47.0
170°	4.3	11.4	21.4	24.2	35.6
172.5°	4.3	8.5	15.7	17.1	18.5
175°	4.3	7.1	10.0	10.0	5.7
177.5°	4.3	5.7	5.7	5.7	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)