

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: P567001

Luminaire Tested: **4SNX-93HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567001  
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-93HL-FDL-UNV-L850-CD  
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

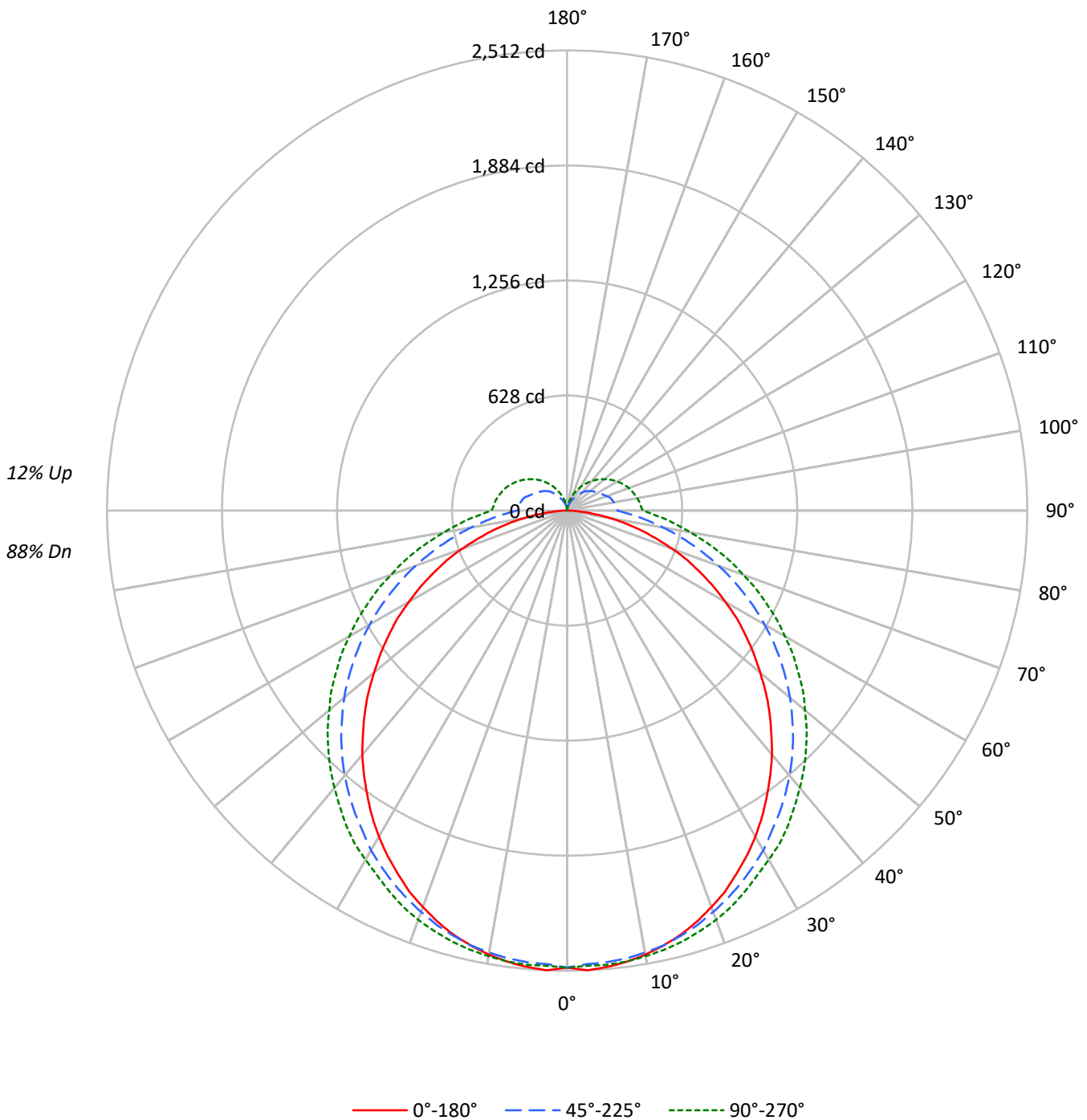
Lumens per Lamp: N/A  
Luminaire Lumens: 8982.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 67.4  
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

TEST NUMBER: P567001

CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P567001

CATALOG NUMBER: 4SNX-93HL-FDL-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°	26855	26855	26855
5°	26999	26452	26504
10°	26849	26202	26228
15°	26630	25905	25974
20°	26276	25546	25681
25°	25851	25182	25290
30°	25388	24818	24956
35°	24800	24380	24724
40°	24232	24017	24365
45°	23543	23596	24063
50°	22745	23152	23680
55°	21986	22601	23339
60°	21108	22013	22920
65°	20040	21341	22510
70°	18682	20601	22046
75°	16750	19792	21889
80°	14041	19290	21714
85°	10186	19689	22885



TEST NUMBER: P567001

CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.8	2.6
10°-20°	681.3	7.6
20°-30°	1036.5	11.5
30°-40°	1260.2	14.0
40°-50°	1333.3	14.8
50°-60°	1249.8	13.9
60°-70°	1028.2	11.4
70°-80°	711.4	7.9
80°-90°	395.6	4.4
90°-100°	260.6	2.9
100°-110°	233.7	2.6
110°-120°	193.4	2.2
120°-130°	149.5	1.7
130°-140°	105.9	1.2
140°-150°	63.9	0.7
150°-160°	30.7	0.3
160°-170°	10.0	0.1
170°-180°	1.2	0.0
0°-30°	1954.6	21.8
0°-40°	3214.9	35.8
0°-60°	5797.9	64.6
0°-90°	7933.1	88.3
90°-120°	687.7	7.7
90°-150°	1007.0	11.2
90°-180°	1049.0	11.7
0°-180°	8982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2495	2495	2495	2495	2495	
5°	2501	2496	2475	2495	2489	237
15°	2396	2404	2403	2435	2435	675
25°	2187	2218	2244	2293	2295	1008
35°	1901	1952	2018	2083	2101	1190
45°	1563	1644	1744	1823	1844	1205
55°	1189	1295	1420	1509	1540	1064
65°	804	920	1063	1167	1200	798
75°	418	540	698	809	854	444
85°	92	229	388	495	538	106
90°	2	129	274	377	414	6
95°	2	123	266	364	400	1
105°	2	106	249	343	374	2
115°	3	92	211	305	338	2
125°	3	78	180	260	292	3
135°	3	62	151	214	240	2
145°	3	45	105	162	182	2
155°	5	31	65	103	120	2
165°	5	20	35	48	62	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



TEST NUMBER: P567001

CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2494.9	2494.9	2494.9	2494.9	2494.9
2.5°	2511.8	2504.1	2477.9	2494.9	2487.2
5°	2501.0	2496.4	2474.9	2494.9	2488.7
7.5°	2484.1	2482.5	2465.6	2488.7	2482.5
10°	2461.0	2464.1	2450.2	2474.9	2470.2
12.5°	2431.8	2436.4	2430.3	2457.9	2454.9
15°	2396.4	2404.1	2402.6	2434.9	2434.9
17.5°	2353.3	2364.1	2370.3	2407.2	2407.2
20°	2302.6	2319.5	2331.8	2371.8	2378.0
22.5°	2251.8	2271.8	2290.3	2331.8	2341.0
25°	2187.2	2218.0	2244.1	2293.4	2294.9
27.5°	2124.2	2158.0	2193.4	2241.1	2245.7
30°	2054.9	2098.0	2141.1	2187.2	2201.1
32.5°	1981.1	2028.8	2076.5	2138.0	2156.5
35°	1901.1	1951.9	2018.0	2082.6	2101.1
37.5°	1821.1	1878.1	1955.0	2021.1	2038.0
40°	1739.6	1802.7	1888.8	1956.5	1976.5
42.5°	1648.9	1725.8	1818.1	1890.4	1913.4
45°	1562.7	1644.3	1744.2	1822.7	1844.2
47.5°	1472.0	1558.1	1665.8	1748.9	1773.5
50°	1375.1	1473.5	1588.9	1672.0	1695.0
52.5°	1284.3	1384.3	1505.8	1592.0	1624.3
55°	1189.0	1295.1	1419.7	1508.9	1539.7
57.5°	1099.8	1201.3	1335.1	1424.3	1462.8
60°	998.2	1110.5	1244.3	1341.3	1372.0
62.5°	902.9	1016.7	1155.1	1255.1	1290.5
65°	804.4	919.8	1062.9	1167.4	1199.7
67.5°	712.2	826.0	972.1	1075.2	1116.7
70°	610.6	730.6	879.8	985.9	1021.3
72.5°	510.7	635.2	787.5	901.3	941.3
75°	418.4	539.9	698.3	809.1	853.7
77.5°	329.2	452.2	612.2	726.0	764.5
80°	239.9	369.2	532.2	644.5	681.4
82.5°	158.4	293.8	455.3	567.6	607.6
85°	92.3	229.2	387.6	495.3	538.3
87.5°	40.0	173.8	324.5	430.7	466.1
90°	1.5	129.2	273.8	376.8	413.8
92.5°	1.5	126.1	267.6	369.2	404.5
95°	1.5	123.1	266.1	364.5	399.9
97.5°	1.5	121.5	263.0	361.5	395.3
100°	1.5	116.9	258.4	355.3	389.1
102.5°	1.5	110.7	253.8	349.2	381.5
105°	1.5	106.1	249.2	343.0	373.8
107.5°	1.5	101.5	241.5	335.3	366.1
110°	1.5	96.9	229.2	327.6	358.4



TEST NUMBER: P567001

CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	95.4	220.0	316.9	349.2
115°	3.1	92.3	210.7	304.6	338.4
117.5°	3.1	90.7	203.0	292.2	327.6
120°	3.1	86.1	195.3	281.5	315.3
122.5°	3.1	81.5	187.7	270.7	304.6
125°	3.1	78.4	180.0	259.9	292.2
127.5°	3.1	73.8	173.8	249.2	278.4
130°	3.1	70.8	166.1	236.9	266.1
132.5°	3.1	66.1	158.4	224.6	252.3
135°	3.1	61.5	150.7	213.8	239.9
137.5°	3.1	55.4	141.5	201.5	226.1
140°	3.1	50.8	129.2	189.2	212.3
142.5°	3.1	47.7	116.9	175.3	196.9
145°	3.1	44.6	104.6	161.5	181.5
147.5°	3.1	41.5	93.8	147.7	166.1
150°	3.1	36.9	83.1	135.4	150.7
152.5°	4.6	33.8	73.8	120.0	135.4
155°	4.6	30.8	64.6	103.1	120.0
157.5°	4.6	27.7	55.4	86.1	104.6
160°	4.6	24.6	47.7	70.8	89.2
162.5°	4.6	23.1	41.5	58.4	75.4
165°	4.6	20.0	35.4	47.7	61.5
167.5°	4.6	15.4	29.2	36.9	50.8
170°	4.6	12.3	23.1	26.1	38.5
172.5°	4.6	9.2	16.9	18.5	20.0
175°	4.6	7.7	10.8	10.8	6.2
177.5°	4.6	6.2	6.2	6.2	3.1
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)