

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: P566999

Luminaire Tested: **4SNX-93HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566999  
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-L835-CD  
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

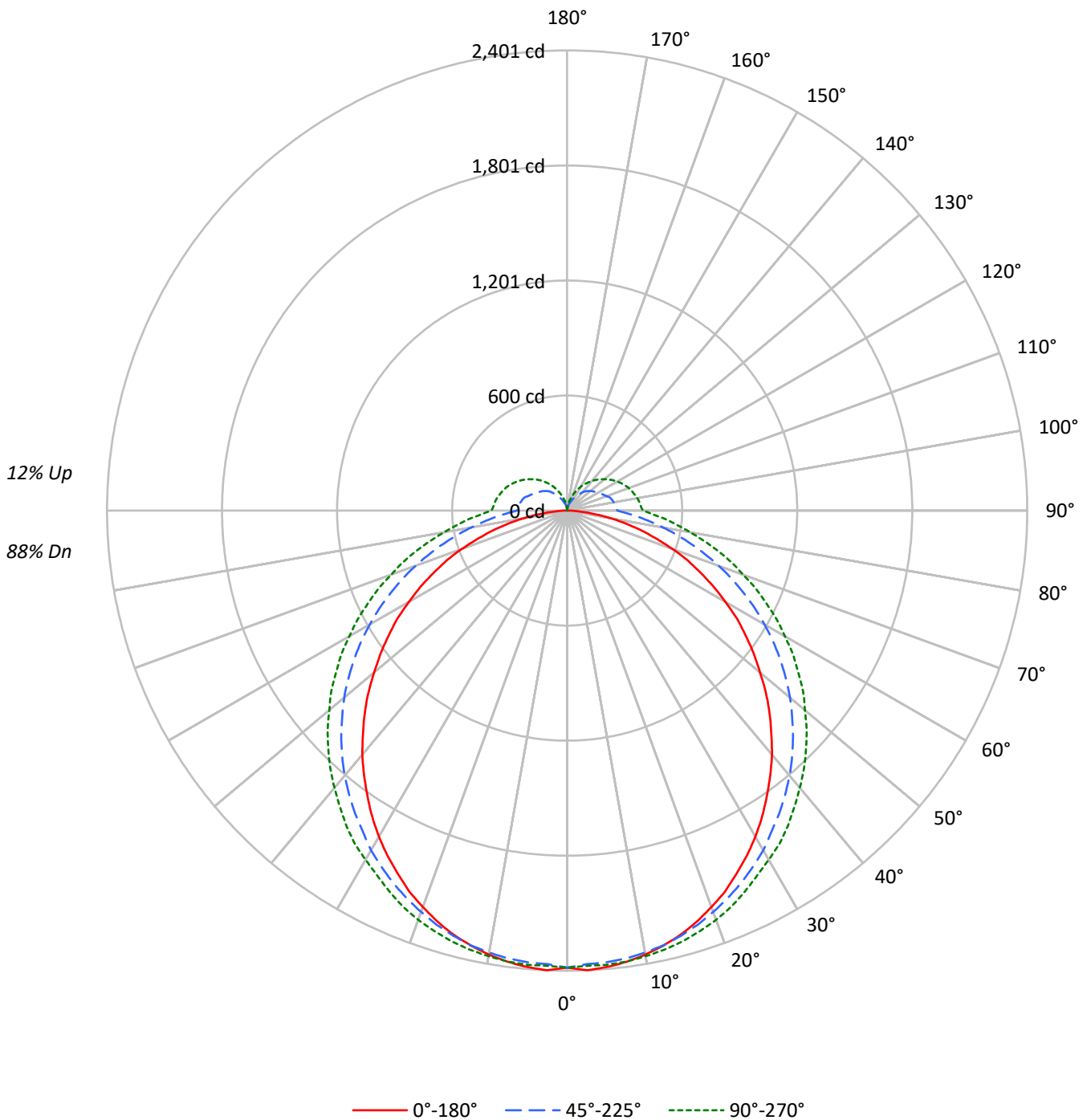
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8585.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 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 (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: P566999

CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L835-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566999

CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L835-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°	25668	25668	25668
5°	25806	25282	25333
10°	25662	25044	25070
15°	25453	24759	24825
20°	25114	24416	24545
25°	24709	24069	24173
30°	24266	23720	23853
35°	23704	23302	23631
40°	23161	22955	23288
45°	22503	22553	22999
50°	21739	22129	22634
55°	21013	21601	22307
60°	20176	21042	21907
65°	19156	20397	21516
70°	17856	19690	21073
75°	16009	18916	20920
80°	13421	18439	20754
85°	9734	18821	21877



TEST NUMBER: P566999

CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L835-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.4	2.6
10°-20°	651.2	7.6
20°-30°	990.6	11.5
30°-40°	1204.5	14.0
40°-50°	1274.4	14.8
50°-60°	1194.6	13.9
60°-70°	982.7	11.4
70°-80°	679.9	7.9
80°-90°	378.1	4.4
90°-100°	249.1	2.9
100°-110°	223.4	2.6
110°-120°	184.9	2.2
120°-130°	142.9	1.7
130°-140°	101.2	1.2
140°-150°	61.0	0.7
150°-160°	29.3	0.3
160°-170°	9.6	0.1
170°-180°	1.2	0.0
0°-30°	1868.2	21.8
0°-40°	3072.8	35.8
0°-60°	5541.7	64.6
0°-90°	7582.4	88.3
90°-120°	657.3	7.7
90°-150°	962.4	11.2
90°-180°	1003.0	11.7
0°-180°	8585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2385	2385	2385	2385	2385	
5°	2390	2386	2366	2385	2379	227
15°	2290	2298	2296	2327	2327	646
25°	2091	2120	2145	2192	2194	964
35°	1817	1866	1929	1991	2008	1137
45°	1494	1572	1667	1742	1763	1151
55°	1136	1238	1357	1442	1472	1017
65°	769	879	1016	1116	1147	762
75°	400	516	667	773	816	424
85°	88	219	370	473	515	102
90°	2	124	262	360	396	6
95°	2	118	254	348	382	1
105°	2	101	238	328	357	2
115°	3	88	201	291	323	2
125°	3	75	172	248	279	3
135°	3	59	144	204	229	2
145°	3	43	100	154	174	2
155°	4	29	62	98	115	2
165°	4	19	34	46	59	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



TEST NUMBER: P566999

CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L835-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2384.6	2384.6	2384.6	2384.6	2384.6
2.5°	2400.8	2393.4	2368.4	2384.6	2377.2
5°	2390.5	2386.1	2365.5	2384.6	2378.7
7.5°	2374.3	2372.8	2356.6	2378.7	2372.8
10°	2352.2	2355.2	2341.9	2365.5	2361.1
12.5°	2324.3	2328.7	2322.8	2349.3	2346.4
15°	2290.5	2297.8	2296.4	2327.2	2327.2
17.5°	2249.3	2259.6	2265.5	2300.8	2300.8
20°	2200.8	2217.0	2228.7	2267.0	2272.8
22.5°	2152.3	2171.4	2189.1	2228.7	2237.6
25°	2090.6	2120.0	2144.9	2192.0	2193.5
27.5°	2030.3	2062.6	2096.4	2142.0	2146.4
30°	1964.1	2005.3	2046.4	2090.6	2103.8
32.5°	1893.6	1939.1	1984.7	2043.5	2061.1
35°	1817.1	1865.6	1928.8	1990.6	2008.2
37.5°	1740.7	1795.1	1868.6	1931.8	1947.9
40°	1662.7	1723.0	1805.3	1870.0	1889.1
42.5°	1576.0	1649.5	1737.7	1806.8	1828.9
45°	1493.7	1571.6	1667.1	1742.1	1762.7
47.5°	1406.9	1489.3	1592.2	1671.6	1695.1
50°	1314.3	1408.4	1518.7	1598.1	1620.1
52.5°	1227.6	1323.1	1439.3	1521.6	1552.5
55°	1136.4	1237.9	1356.9	1442.2	1471.6
57.5°	1051.2	1148.2	1276.1	1361.4	1398.1
60°	954.1	1061.4	1189.4	1282.0	1311.4
62.5°	863.0	971.8	1104.1	1199.6	1233.5
65°	768.9	879.1	1015.9	1115.8	1146.7
67.5°	680.7	789.5	929.1	1027.6	1067.3
70°	583.6	698.3	840.9	942.4	976.2
72.5°	488.1	607.2	752.7	861.5	899.7
75°	399.9	516.0	667.4	773.3	815.9
77.5°	314.6	432.2	585.1	693.9	730.7
80°	229.3	352.8	508.7	616.0	651.3
82.5°	151.4	280.8	435.2	542.5	580.7
85°	88.2	219.1	370.5	473.4	514.6
87.5°	38.2	166.1	310.2	411.6	445.5
90°	1.5	123.5	261.7	360.2	395.5
92.5°	1.5	120.6	255.8	352.8	386.6
95°	1.5	117.6	254.3	348.4	382.2
97.5°	1.5	116.1	251.4	345.5	377.8
100°	1.5	111.7	247.0	339.6	371.9
102.5°	1.5	105.9	242.6	333.7	364.6
105°	1.5	101.4	238.2	327.8	357.2
107.5°	1.5	97.0	230.8	320.5	349.9
110°	1.5	92.6	219.1	313.1	342.5



TEST NUMBER: P566999

CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	91.1	210.2	302.9	333.7
115°	2.9	88.2	201.4	291.1	323.4
117.5°	2.9	86.7	194.1	279.3	313.1
120°	2.9	82.3	186.7	269.0	301.4
122.5°	2.9	77.9	179.4	258.7	291.1
125°	2.9	75.0	172.0	248.5	279.3
127.5°	2.9	70.6	166.1	238.2	266.1
130°	2.9	67.6	158.8	226.4	254.3
132.5°	2.9	63.2	151.4	214.6	241.1
135°	2.9	58.8	144.1	204.4	229.3
137.5°	2.9	52.9	135.3	192.6	216.1
140°	2.9	48.5	123.5	180.8	202.9
142.5°	2.9	45.6	111.7	167.6	188.2
145°	2.9	42.6	100.0	154.4	173.5
147.5°	2.9	39.7	89.7	141.1	158.8
150°	2.9	35.3	79.4	129.4	144.1
152.5°	4.4	32.3	70.6	114.7	129.4
155°	4.4	29.4	61.7	98.5	114.7
157.5°	4.4	26.5	52.9	82.3	100.0
160°	4.4	23.5	45.6	67.6	85.3
162.5°	4.4	22.1	39.7	55.9	72.0
165°	4.4	19.1	33.8	45.6	58.8
167.5°	4.4	14.7	27.9	35.3	48.5
170°	4.4	11.8	22.1	25.0	36.8
172.5°	4.4	8.8	16.2	17.6	19.1
175°	4.4	7.4	10.3	10.3	5.9
177.5°	4.4	5.9	5.9	5.9	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)