

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: P566044

Luminaire Tested: **4SNX-116HL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566044  
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-116HL-FDL-UNV-L940-CD  
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

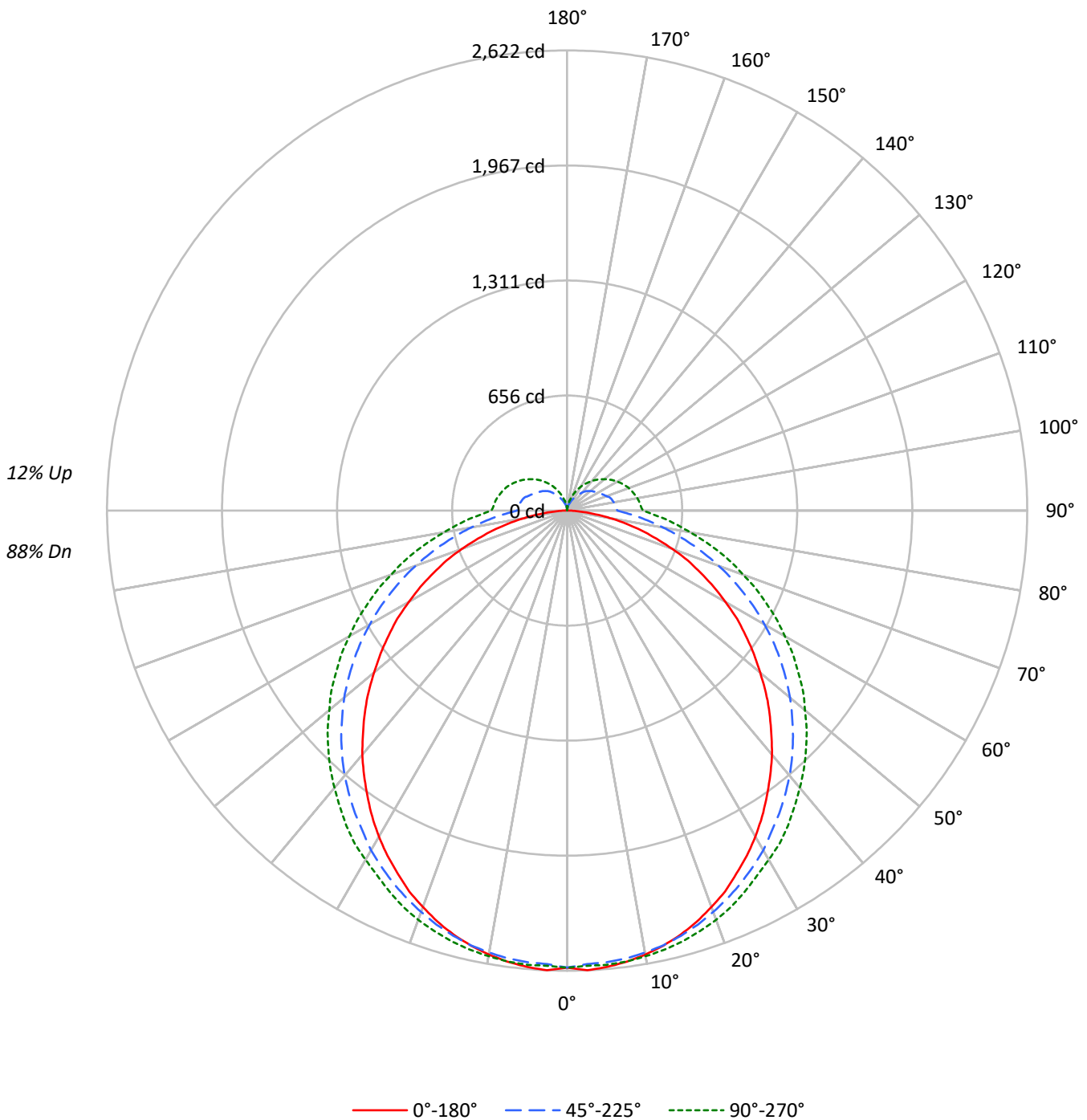
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9375.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 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): 85.4  
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

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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°	28029	28029	28029
5°	28180	27608	27664
10°	28024	27350	27376
15°	27796	27038	27110
20°	27425	26663	26805
25°	26982	26284	26397
30°	26500	25904	26048
35°	25886	25446	25805
40°	25292	25068	25431
45°	24573	24630	25116
50°	23740	24165	24717
55°	22948	23589	24359
60°	22032	22977	23922
65°	20917	22275	23495
70°	19502	21503	23011
75°	17482	20659	22845
80°	14656	20135	22663
85°	10628	20553	23888



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.2	2.6
10°-20°	711.1	7.6
20°-30°	1081.8	11.5
30°-40°	1315.4	14.0
40°-50°	1391.6	14.8
50°-60°	1304.5	13.9
60°-70°	1073.1	11.4
70°-80°	742.5	7.9
80°-90°	412.9	4.4
90°-100°	272.0	2.9
100°-110°	243.9	2.6
110°-120°	201.9	2.2
120°-130°	156.1	1.7
130°-140°	110.5	1.2
140°-150°	66.6	0.7
150°-160°	32.0	0.3
160°-170°	10.5	0.1
170°-180°	1.3	0.0
0°-30°	2040.1	21.8
0°-40°	3355.5	35.8
0°-60°	6051.6	64.6
0°-90°	8280.2	88.3
90°-120°	717.8	7.7
90°-150°	1051.0	11.2
90°-180°	1095.0	11.7
0°-180°	9375.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2604	2604	2604	2604	2604	
5°	2610	2606	2583	2604	2598	248
15°	2501	2509	2508	2541	2541	705
25°	2283	2315	2342	2394	2395	1052
35°	1984	2037	2106	2174	2193	1242
45°	1631	1716	1821	1902	1925	1257
55°	1241	1352	1482	1575	1607	1111
65°	840	960	1109	1218	1252	832
75°	437	564	729	844	891	463
85°	96	239	405	517	562	111
90°	2	135	286	393	432	6
95°	2	128	278	380	417	1
105°	2	111	260	358	390	2
115°	3	96	220	318	353	3
125°	3	82	188	271	305	3
135°	3	64	157	223	250	2
145°	3	47	109	169	189	2
155°	5	32	67	108	125	2
165°	5	21	37	50	64	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2604.0	2604.0	2604.0	2604.0	2604.0
2.5°	2621.7	2613.6	2586.4	2604.0	2596.0
5°	2610.4	2605.6	2583.1	2604.0	2597.6
7.5°	2592.8	2591.2	2573.5	2597.6	2591.2
10°	2568.7	2571.9	2557.5	2583.1	2578.3
12.5°	2538.2	2543.0	2536.6	2565.5	2562.3
15°	2501.3	2509.3	2507.7	2541.4	2541.4
17.5°	2456.3	2467.6	2474.0	2512.5	2512.5
20°	2403.3	2421.0	2433.8	2475.6	2482.0
22.5°	2350.4	2371.2	2390.5	2433.8	2443.5
25°	2282.9	2315.0	2342.3	2393.7	2395.3
27.5°	2217.1	2252.4	2289.3	2339.1	2343.9
30°	2144.9	2189.8	2234.8	2282.9	2297.4
32.5°	2067.8	2117.6	2167.3	2231.6	2250.8
35°	1984.3	2037.3	2106.3	2173.8	2193.0
37.5°	1900.8	1960.2	2040.5	2109.5	2127.2
40°	1815.7	1881.6	1971.5	2042.1	2063.0
42.5°	1721.0	1801.3	1897.6	1973.1	1997.2
45°	1631.1	1716.2	1820.6	1902.4	1924.9
47.5°	1536.4	1626.3	1738.7	1825.4	1851.1
50°	1435.3	1538.0	1658.4	1745.1	1769.2
52.5°	1340.5	1444.9	1571.7	1661.6	1695.3
55°	1241.0	1351.8	1481.8	1574.9	1607.0
57.5°	1147.9	1253.8	1393.5	1486.6	1526.8
60°	1041.9	1159.1	1298.8	1399.9	1432.0
62.5°	942.4	1061.2	1205.7	1310.0	1347.0
65°	839.6	960.0	1109.4	1218.5	1252.2
67.5°	743.3	862.1	1014.6	1122.2	1165.5
70°	637.4	762.6	918.3	1029.1	1066.0
72.5°	533.0	663.0	822.0	940.8	982.5
75°	436.7	563.5	728.9	844.5	891.0
77.5°	343.6	472.0	639.0	757.8	797.9
80°	250.4	385.3	555.5	672.7	711.2
82.5°	165.4	306.6	475.2	592.4	634.1
85°	96.3	239.2	404.6	516.9	561.9
87.5°	41.7	181.4	338.7	449.5	486.4
90°	1.6	134.9	285.8	393.3	431.9
92.5°	1.6	131.6	279.3	385.3	422.2
95°	1.6	128.4	277.7	380.5	417.4
97.5°	1.6	126.8	274.5	377.3	412.6
100°	1.6	122.0	269.7	370.9	406.2
102.5°	1.6	115.6	264.9	364.4	398.1
105°	1.6	110.8	260.1	358.0	390.1
107.5°	1.6	106.0	252.1	350.0	382.1
110°	1.6	101.1	239.2	342.0	374.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	99.5	229.6	330.7	364.4
115°	3.2	96.3	219.9	317.9	353.2
117.5°	3.2	94.7	211.9	305.0	342.0
120°	3.2	89.9	203.9	293.8	329.1
122.5°	3.2	85.1	195.9	282.6	317.9
125°	3.2	81.9	187.8	271.3	305.0
127.5°	3.2	77.1	181.4	260.1	290.6
130°	3.2	73.8	173.4	247.2	277.7
132.5°	3.2	69.0	165.4	234.4	263.3
135°	3.2	64.2	157.3	223.2	250.4
137.5°	3.2	57.8	147.7	210.3	236.0
140°	3.2	53.0	134.9	197.5	221.5
142.5°	3.2	49.8	122.0	183.0	205.5
145°	3.2	46.6	109.2	168.6	189.4
147.5°	3.2	43.3	97.9	154.1	173.4
150°	3.2	38.5	86.7	141.3	157.3
152.5°	4.8	35.3	77.1	125.2	141.3
155°	4.8	32.1	67.4	107.6	125.2
157.5°	4.8	28.9	57.8	89.9	109.2
160°	4.8	25.7	49.8	73.8	93.1
162.5°	4.8	24.1	43.3	61.0	78.7
165°	4.8	20.9	36.9	49.8	64.2
167.5°	4.8	16.1	30.5	38.5	53.0
170°	4.8	12.8	24.1	27.3	40.1
172.5°	4.8	9.6	17.7	19.3	20.9
175°	4.8	8.0	11.2	11.2	6.4
177.5°	4.8	6.4	6.4	6.4	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)