

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: P566043

Luminaire Tested: **4SNX-116HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566043
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-L935-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

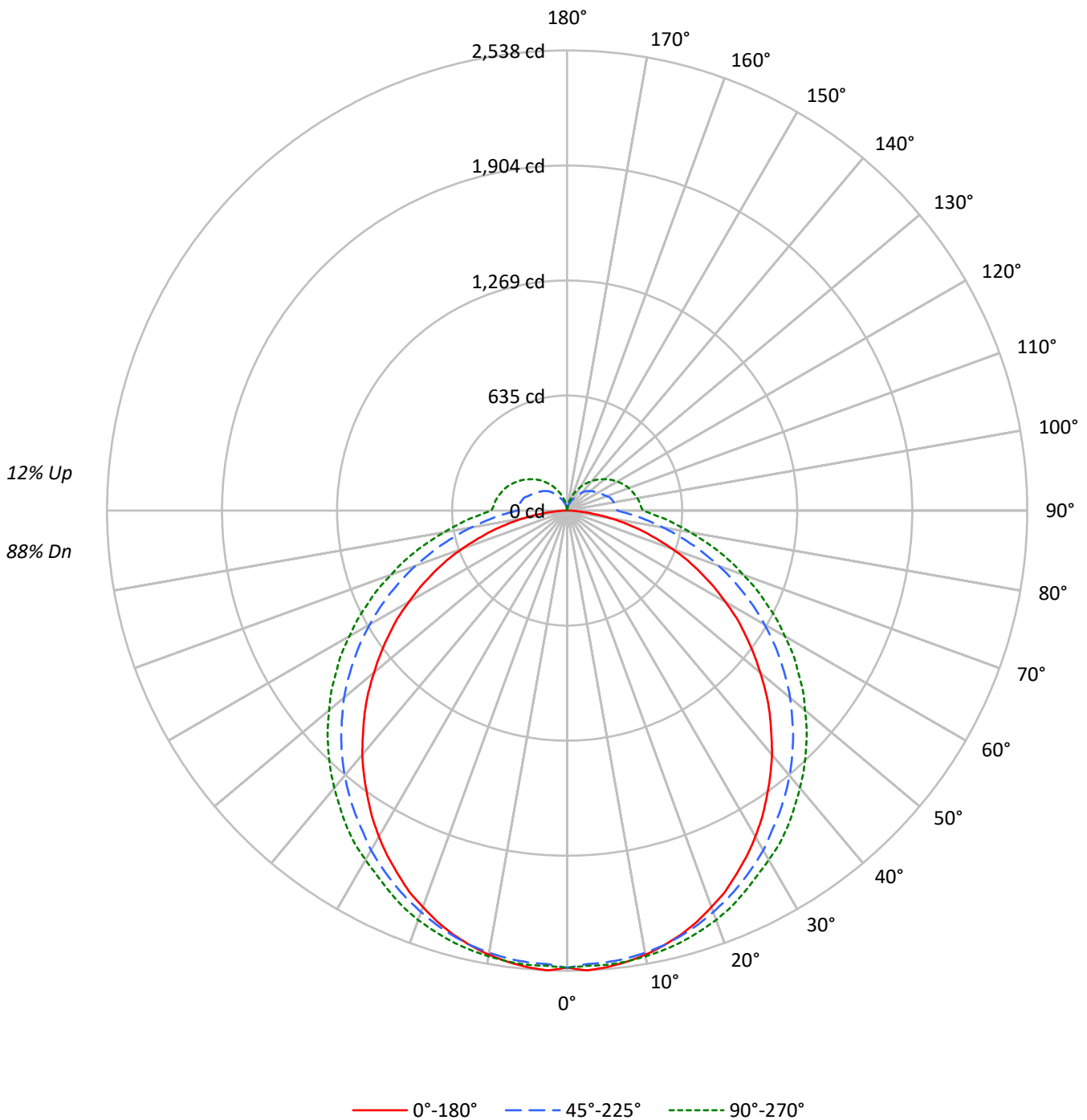
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9077.0 lumens
Efficiency: N/A
Efficacy: 106.3 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): 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°	27138	27138	27138
5°	27285	26731	26784
10°	27133	26480	26507
15°	26913	26178	26248
20°	26553	25816	25953
25°	26125	25449	25558
30°	25657	25080	25219
35°	25062	24638	24985
40°	24488	24271	24623
45°	23793	23847	24317
50°	22984	23397	23932
55°	22219	22840	23586
60°	21332	22246	23162
65°	20254	21566	22749
70°	18881	20819	22280
75°	16926	20002	22120
80°	14193	19493	21943
85°	10297	19898	23127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	2.6
10°-20°	688.5	7.6
20°-30°	1047.4	11.5
30°-40°	1273.6	14.0
40°-50°	1347.4	14.8
50°-60°	1263.0	13.9
60°-70°	1039.0	11.4
70°-80°	718.9	7.9
80°-90°	399.8	4.4
90°-100°	263.4	2.9
100°-110°	236.2	2.6
110°-120°	195.5	2.2
120°-130°	151.1	1.7
130°-140°	107.0	1.2
140°-150°	64.5	0.7
150°-160°	31.0	0.3
160°-170°	10.1	0.1
170°-180°	1.2	0.0
0°-30°	1975.3	21.8
0°-40°	3248.9	35.8
0°-60°	5859.3	64.6
0°-90°	8017.0	88.3
90°-120°	695.0	7.7
90°-150°	1017.7	11.2
90°-180°	1060.0	11.7
0°-180°	9077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2521	2521	2521	2521	2521	
5°	2528	2523	2501	2521	2515	240
15°	2422	2430	2428	2461	2461	683
25°	2210	2241	2268	2318	2319	1019
35°	1921	1972	2039	2105	2123	1202
45°	1579	1662	1763	1842	1864	1217
55°	1202	1309	1435	1525	1556	1076
65°	813	930	1074	1180	1212	806
75°	423	546	706	818	863	449
85°	93	232	392	500	544	107
90°	2	131	277	381	418	6
95°	2	124	269	368	404	1
105°	2	107	252	347	378	2
115°	3	93	213	308	342	3
125°	3	79	182	263	295	3
135°	3	62	152	216	242	2
145°	3	45	106	163	183	2
155°	5	31	65	104	121	2
165°	5	20	36	48	62	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°	2521.2	2521.2	2521.2	2521.2	2521.2
2.5°	2538.3	2530.6	2504.1	2521.2	2513.5
5°	2527.5	2522.8	2501.0	2521.2	2515.0
7.5°	2510.4	2508.8	2491.7	2515.0	2508.8
10°	2487.0	2490.2	2476.2	2501.0	2496.4
12.5°	2457.5	2462.2	2456.0	2483.9	2480.8
15°	2421.8	2429.5	2428.0	2460.6	2460.6
17.5°	2378.2	2389.1	2395.3	2432.6	2432.6
20°	2326.9	2344.0	2356.5	2396.9	2403.1
22.5°	2275.6	2295.9	2314.5	2356.5	2365.8
25°	2210.4	2241.4	2267.9	2317.6	2319.2
27.5°	2146.6	2180.8	2216.6	2264.8	2269.4
30°	2076.7	2120.2	2163.7	2210.4	2224.3
32.5°	2002.1	2050.3	2098.4	2160.6	2179.3
35°	1921.2	1972.5	2039.4	2104.7	2123.3
37.5°	1840.4	1897.9	1975.6	2042.5	2059.6
40°	1758.0	1821.8	1908.8	1977.2	1997.4
42.5°	1666.3	1744.0	1837.3	1910.4	1933.7
45°	1579.3	1661.7	1762.7	1842.0	1863.7
47.5°	1487.6	1574.6	1683.4	1767.4	1792.2
50°	1389.6	1489.1	1605.7	1689.6	1713.0
52.5°	1297.9	1399.0	1521.8	1608.8	1641.4
55°	1201.6	1308.8	1434.7	1524.9	1556.0
57.5°	1111.4	1214.0	1349.2	1439.4	1478.2
60°	1008.8	1122.3	1257.5	1355.4	1386.5
62.5°	912.4	1027.5	1167.4	1268.4	1304.1
65°	813.0	929.5	1074.1	1179.8	1212.4
67.5°	719.7	834.7	982.4	1086.5	1128.5
70°	617.1	738.3	889.1	996.4	1032.1
72.5°	516.1	642.0	795.9	910.9	951.3
75°	422.8	545.6	705.7	817.6	862.7
77.5°	332.6	457.0	618.7	733.7	772.5
80°	242.5	373.1	537.8	651.3	688.6
82.5°	160.1	296.9	460.1	573.6	614.0
85°	93.3	231.6	391.7	500.5	544.0
87.5°	40.4	175.6	328.0	435.2	471.0
90°	1.6	130.6	276.7	380.8	418.1
92.5°	1.6	127.5	270.5	373.1	408.8
95°	1.6	124.4	268.9	368.4	404.1
97.5°	1.6	122.8	265.8	365.3	399.5
100°	1.6	118.1	261.1	359.1	393.3
102.5°	1.6	111.9	256.5	352.8	385.5
105°	1.6	107.3	251.8	346.6	377.7
107.5°	1.6	102.6	244.0	338.9	369.9
110°	1.6	97.9	231.6	331.1	362.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	96.4	222.3	320.2	352.8
115°	3.1	93.3	213.0	307.8	342.0
117.5°	3.1	91.7	205.2	295.3	331.1
120°	3.1	87.0	197.4	284.5	318.7
122.5°	3.1	82.4	189.6	273.6	307.8
125°	3.1	79.3	181.9	262.7	295.3
127.5°	3.1	74.6	175.6	251.8	281.3
130°	3.1	71.5	167.9	239.4	268.9
132.5°	3.1	66.8	160.1	226.9	254.9
135°	3.1	62.2	152.3	216.1	242.5
137.5°	3.1	56.0	143.0	203.6	228.5
140°	3.1	51.3	130.6	191.2	214.5
142.5°	3.1	48.2	118.1	177.2	199.0
145°	3.1	45.1	105.7	163.2	183.4
147.5°	3.1	42.0	94.8	149.2	167.9
150°	3.1	37.3	83.9	136.8	152.3
152.5°	4.7	34.2	74.6	121.2	136.8
155°	4.7	31.1	65.3	104.1	121.2
157.5°	4.7	28.0	56.0	87.0	105.7
160°	4.7	24.9	48.2	71.5	90.2
162.5°	4.7	23.3	42.0	59.1	76.2
165°	4.7	20.2	35.8	48.2	62.2
167.5°	4.7	15.5	29.5	37.3	51.3
170°	4.7	12.4	23.3	26.4	38.9
172.5°	4.7	9.3	17.1	18.7	20.2
175°	4.7	7.8	10.9	10.9	6.2
177.5°	4.7	6.2	6.2	6.2	3.1
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)