

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: P566047

Luminaire Tested: **4SNX-116HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-116HL-LC-UNV-L835-CD  
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

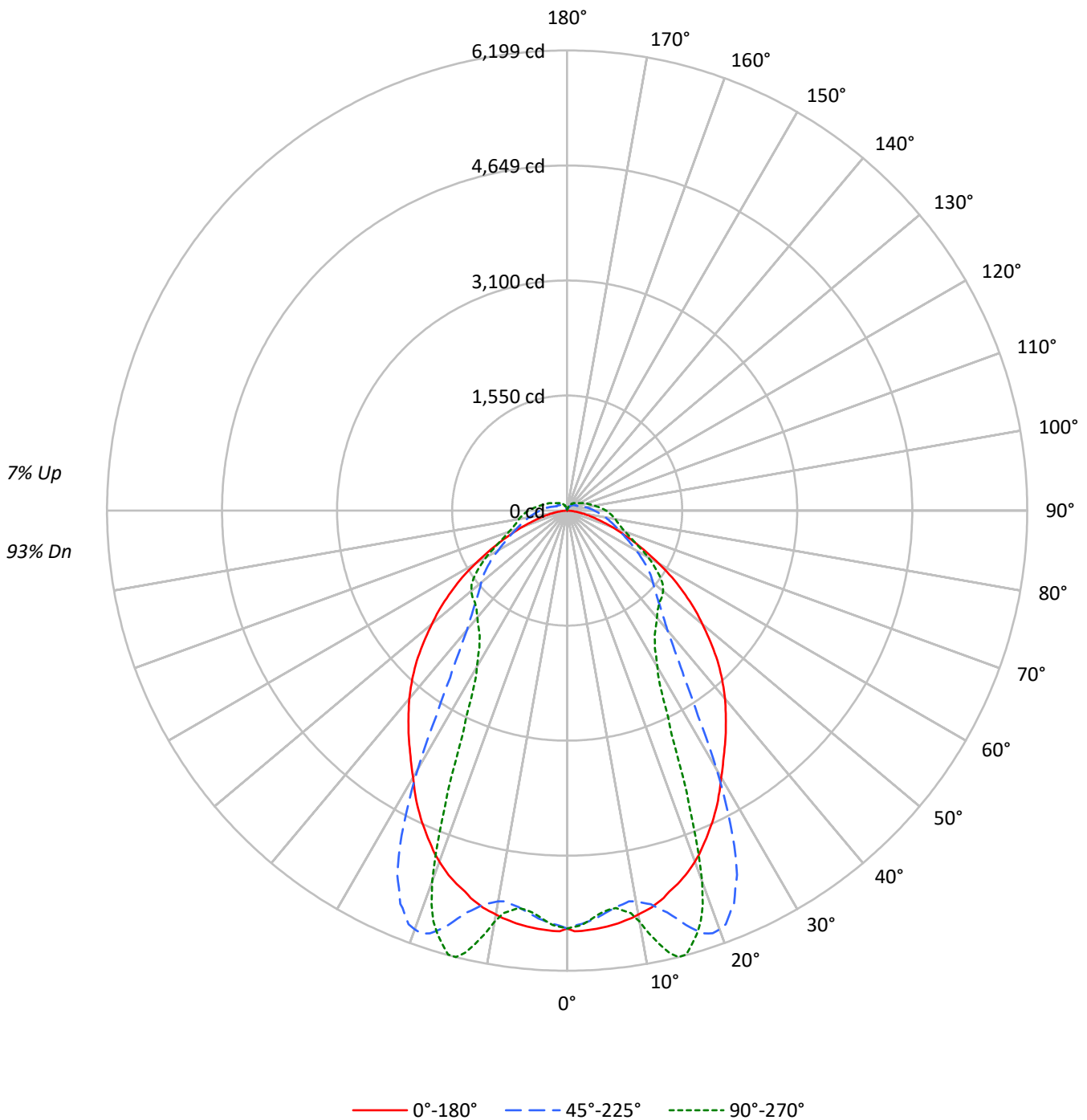
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12512.0 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: 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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	60599	60599	60599
5°	60671	56556	55468
10°	59944	53701	55005
15°	58549	55857	58556
20°	56777	58172	49007
25°	53927	52143	30133
30°	50384	38806	21808
35°	47489	26762	18397
40°	44895	20752	16955
45°	41875	17651	16035
50°	37944	15826	15740
55°	33802	14296	14563
60°	28500	12354	12597
65°	23002	10743	10513
70°	17855	9640	9257
75°	13612	8943	8632
80°	9291	8448	8546
85°	4794	8034	8484



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.9	4.2
10°-20°	1600.7	12.8
20°-30°	2155.4	17.2
30°-40°	2039.9	16.3
40°-50°	1800.5	14.4
50°-60°	1462.4	11.7
60°-70°	994.6	7.9
70°-80°	640.0	5.1
80°-90°	425.5	3.4
90°-100°	292.5	2.3
100°-110°	196.3	1.6
110°-120°	138.5	1.1
120°-130°	98.9	0.8
130°-140°	69.8	0.6
140°-150°	43.3	0.3
150°-160°	21.1	0.2
160°-170°	7.4	0.1
170°-180°	1.3	0.0
0°-30°	4280.0	34.2
0°-40°	6319.9	50.5
0°-60°	9582.8	76.6
0°-90°	11642.9	93.1
90°-120°	627.2	5.0
90°-150°	839.3	6.7
90°-180°	869.0	6.9
0°-180°	12512.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5630	5630	5630	5630	5630	
5°	5636	5584	5464	5460	5433	535
15°	5313	5278	5685	6188	6193	1498
25°	4629	5488	5416	3933	3326	2124
35°	3719	5219	2751	2119	2054	2327
45°	2866	3511	1740	1719	1756	2200
55°	1908	2076	1307	1460	1515	1704
65°	984	1120	875	972	1003	988
75°	378	529	617	692	724	412
85°	57	225	438	554	592	75
90°	2	157	365	491	523	3
95°	2	120	308	416	445	2
105°	4	84	202	285	319	4
115°	4	73	149	212	239	4
125°	6	61	128	160	172	5
135°	8	48	105	134	141	6
145°	8	34	74	103	113	5
155°	10	21	46	69	78	4
165°	10	13	25	34	42	3
175°	12	12	12	12	10	1
180°	10	10	10	10	10	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5629.8	5629.8	5629.8	5629.8	5629.8
1°	5668.0	5650.8	5593.5	5624.1	5608.8
2°	5666.1	5637.4	5572.5	5606.9	5587.8
3°	5656.5	5626.0	5541.9	5562.9	5534.3
4°	5647.0	5610.7	5509.4	5509.4	5477.0
5°	5635.5	5583.9	5463.6	5459.8	5433.0
6°	5622.1	5562.9	5423.5	5419.6	5404.4
7°	5603.0	5526.6	5379.5	5406.3	5394.8
8°	5580.1	5492.2	5356.6	5423.5	5440.7
9°	5559.1	5450.2	5329.9	5477.0	5490.3
10°	5524.7	5412.0	5347.1	5583.9	5624.1
11°	5496.1	5379.5	5385.3	5689.0	5809.4
12°	5467.4	5345.1	5421.6	5820.8	5967.9
13°	5419.6	5318.4	5501.8	5964.1	6115.0
14°	5377.6	5297.4	5580.1	6109.3	6199.1
15°	5312.7	5278.3	5685.2	6187.6	6193.3
16°	5268.7	5264.9	5807.4	6193.3	6086.4
17°	5219.1	5259.2	5906.8	6094.0	5967.9
18°	5163.7	5270.6	5988.9	5969.8	5824.6
19°	5100.6	5282.1	6023.3	5797.9	5610.7
20°	5031.8	5299.3	6004.2	5618.3	5316.5
21°	4963.1	5322.2	5967.9	5429.2	4930.6
22.5°	4835.1	5377.6	5796.0	4898.1	4292.5
23°	4798.8	5389.1	5755.9	4731.9	4126.3
24°	4709.0	5436.8	5572.5	4344.1	3687.0
25°	4628.8	5488.4	5415.8	3933.4	3325.9
26°	4539.0	5526.6	5178.9	3555.2	3104.3
27°	4451.1	5549.5	4909.6	3261.0	2856.0
28°	4349.9	5574.4	4617.3	3006.9	2668.8
29°	4254.3	5578.2	4328.8	2804.4	2521.7
30°	4151.2	5559.1	4025.1	2642.0	2430.0
32.5°	3925.8	5454.0	3282.0	2332.5	2200.7
35°	3719.4	5219.1	2750.9	2118.6	2053.6
37.5°	3511.2	4848.5	2378.4	1984.8	1963.8
40°	3306.8	4409.1	2097.6	1877.9	1881.7
42.5°	3090.9	3956.3	1904.6	1790.0	1807.2
45°	2865.5	3511.2	1740.3	1719.3	1755.6
47.5°	2615.3	3104.3	1610.4	1673.5	1728.9
50°	2378.4	2701.2	1509.2	1629.5	1686.8
52.5°	2153.0	2370.7	1417.5	1555.0	1621.9
55°	1908.4	2076.5	1306.7	1459.5	1514.9
57.5°	1675.4	1811.0	1190.1	1341.1	1390.7
60°	1419.4	1549.3	1071.7	1213.1	1260.8
62.5°	1188.2	1325.8	970.5	1085.1	1123.3
65°	983.8	1119.5	874.9	972.4	1002.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	802.3	947.5	796.6	878.8	907.4
70°	632.3	785.2	727.8	802.3	832.9
72.5°	494.8	649.5	670.5	739.3	769.9
75°	378.2	529.2	617.0	691.5	724.0
77.5°	280.8	431.7	567.4	653.3	687.7
80°	185.3	343.9	523.4	619.0	659.1
82.5°	116.5	277.0	479.5	584.6	626.6
85°	57.3	225.4	437.5	554.0	592.2
87.5°	19.1	187.2	399.3	523.4	555.9
90°	1.9	156.6	364.9	491.0	523.4
92.5°	1.9	135.6	336.2	452.8	485.2
95°	1.9	120.4	307.6	416.5	445.1
97.5°	1.9	108.9	280.8	378.2	408.8
100°	1.9	97.4	252.2	342.0	374.4
102.5°	3.8	89.8	227.3	311.4	345.8
105°	3.8	84.1	202.5	284.6	319.0
107.5°	3.8	80.2	181.5	263.6	296.1
110°	3.8	76.4	166.2	244.5	278.9
112.5°	3.8	74.5	156.6	227.3	259.8
115°	3.8	72.6	149.0	212.0	238.8
117.5°	5.7	70.7	143.3	196.8	217.8
120°	5.7	66.9	139.5	183.4	200.6
122.5°	5.7	63.0	133.7	171.9	185.3
125°	5.7	61.1	128.0	160.5	171.9
127.5°	5.7	57.3	122.3	150.9	162.4
130°	7.6	53.5	116.5	143.3	152.8
132.5°	7.6	49.7	110.8	139.5	147.1
135°	7.6	47.8	105.1	133.7	141.4
137.5°	7.6	43.9	99.3	128.0	135.6
140°	7.6	40.1	91.7	120.4	128.0
142.5°	7.6	38.2	84.1	112.7	120.4
145°	7.6	34.4	74.5	103.2	112.7
147.5°	9.6	32.5	66.9	95.5	103.2
150°	9.6	28.7	59.2	87.9	95.5
152.5°	9.6	24.8	51.6	78.3	86.0
155°	9.6	21.0	45.8	68.8	78.3
157.5°	9.6	19.1	40.1	57.3	68.8
160°	9.6	17.2	34.4	49.7	59.2
162.5°	9.6	15.3	30.6	42.0	51.6
165°	9.6	13.4	24.8	34.4	42.0
167.5°	11.5	13.4	21.0	26.7	34.4
170°	11.5	13.4	17.2	21.0	26.7
172.5°	11.5	11.5	13.4	15.3	17.2
175°	11.5	11.5	11.5	11.5	9.6
177.5°	11.5	11.5	11.5	9.6	9.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	9.6	9.6	9.6	9.6	9.6

(END OF REPORT)