

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: P566049

Luminaire Tested: **4SNX-116HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566049  
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-L850-CD  
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

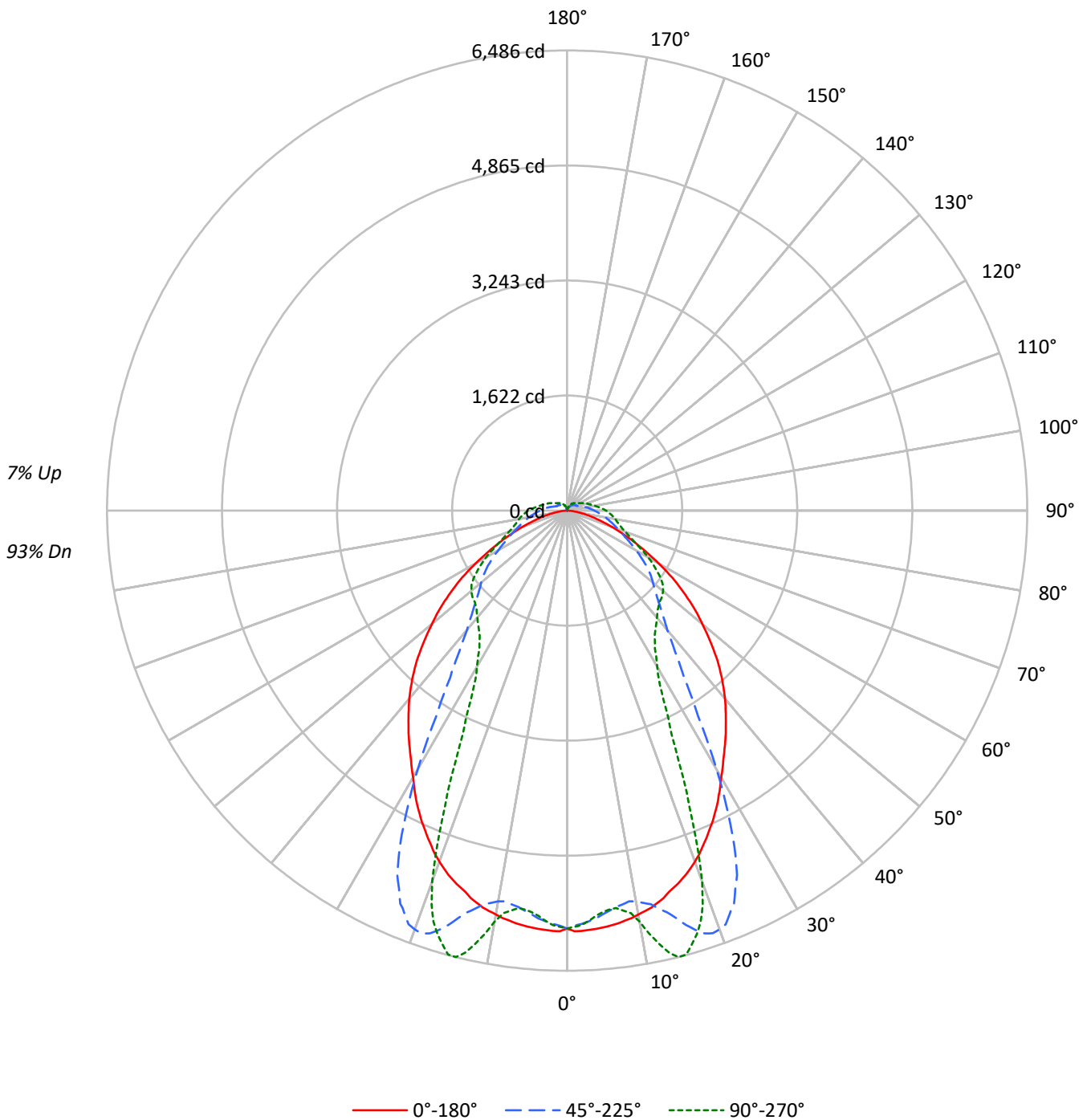
Lumens per Lamp: N/A  
Luminaire Lumens: 13091.0 lumens  
Efficiency: N/A  
Efficacy: 153.3 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

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°	63403	63403	63403
5°	63478	59173	58035
10°	62719	56185	57550
15°	61258	58442	61265
20°	59405	60864	51275
25°	56422	54556	31527
30°	52715	40602	22817
35°	49687	28000	19249
40°	46972	21712	17740
45°	43813	18468	16776
50°	39699	16558	16469
55°	35366	14957	15237
60°	29819	12926	13180
65°	24068	11241	10999
70°	18683	10086	9686
75°	14246	9358	9032
80°	9722	8840	8941
85°	5020	8405	8877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.1	4.2
10°-20°	1674.8	12.8
20°-30°	2255.2	17.2
30°-40°	2134.3	16.3
40°-50°	1883.8	14.4
50°-60°	1530.1	11.7
60°-70°	1040.6	7.9
70°-80°	669.6	5.1
80°-90°	445.2	3.4
90°-100°	306.0	2.3
100°-110°	205.4	1.6
110°-120°	144.9	1.1
120°-130°	103.5	0.8
130°-140°	73.0	0.6
140°-150°	45.3	0.3
150°-160°	22.1	0.2
160°-170°	7.7	0.1
170°-180°	1.3	0.0
0°-30°	4478.1	34.2
0°-40°	6612.4	50.5
0°-60°	10026.2	76.6
0°-90°	12181.7	93.1
90°-120°	656.3	5.0
90°-150°	878.1	6.7
90°-180°	909.0	6.9
0°-180°	13091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5890	5890	5890	5890	5890	
5°	5896	5842	5716	5712	5684	559
15°	5558	5522	5948	6474	6480	1567
25°	4843	5742	5666	4115	3480	2222
35°	3892	5461	2878	2217	2149	2435
45°	2998	3674	1821	1799	1837	2302
55°	1997	2173	1367	1527	1585	1783
65°	1029	1171	915	1017	1049	1033
75°	396	554	646	724	758	431
85°	60	236	458	580	620	79
90°	2	164	382	514	548	4
95°	2	126	322	436	466	2
105°	4	88	212	298	334	4
115°	4	76	156	222	250	5
125°	6	64	134	168	180	6
135°	8	50	110	140	148	6
145°	8	36	78	108	118	5
155°	10	22	48	72	82	5
165°	10	14	26	36	44	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°	5890.3	5890.3	5890.3	5890.3	5890.3
1°	5930.3	5912.3	5852.3	5884.3	5868.3
2°	5928.3	5898.3	5830.3	5866.3	5846.3
3°	5918.3	5886.3	5798.4	5820.3	5790.4
4°	5908.3	5870.3	5764.4	5764.4	5730.4
5°	5896.3	5842.3	5716.4	5712.4	5684.4
6°	5882.3	5820.3	5674.4	5670.4	5654.5
7°	5862.3	5782.4	5628.5	5656.5	5644.5
8°	5838.3	5746.4	5604.5	5674.4	5692.4
9°	5816.4	5702.4	5576.5	5730.4	5744.4
10°	5780.4	5662.4	5594.5	5842.3	5884.3
11°	5750.4	5628.5	5634.5	5952.3	6078.2
12°	5720.4	5592.5	5672.4	6090.2	6244.1
13°	5670.4	5564.5	5756.4	6240.1	6398.0
14°	5626.5	5542.5	5838.3	6392.0	6485.9
15°	5558.5	5522.5	5948.3	6473.9	6479.9
16°	5512.5	5508.5	6076.2	6479.9	6368.0
17°	5460.6	5502.5	6180.1	6376.0	6244.1
18°	5402.6	5514.5	6266.1	6246.1	6094.2
19°	5336.7	5526.5	6302.0	6066.2	5870.3
20°	5264.7	5544.5	6282.1	5878.3	5562.5
21°	5192.7	5568.5	6244.1	5680.4	5158.8
22.5°	5058.8	5626.5	6064.2	5124.8	4491.2
23°	5020.9	5638.5	6022.2	4950.9	4317.3
24°	4926.9	5688.4	5830.3	4545.1	3857.6
25°	4843.0	5742.4	5666.4	4115.4	3479.8
26°	4749.0	5782.4	5418.6	3719.7	3248.0
27°	4657.1	5806.4	5136.8	3411.9	2988.1
28°	4551.1	5832.3	4831.0	3146.0	2792.2
29°	4451.2	5836.3	4529.2	2934.2	2638.3
30°	4343.3	5816.4	4211.4	2764.3	2542.4
32.5°	4107.4	5706.4	3433.8	2440.5	2302.6
35°	3891.6	5460.6	2878.2	2216.6	2148.7
37.5°	3673.7	5072.8	2488.4	2076.7	2054.7
40°	3459.8	4613.1	2194.6	1964.8	1968.8
42.5°	3234.0	4139.4	1992.7	1872.8	1890.8
45°	2998.1	3673.7	1820.9	1798.9	1836.8
47.5°	2736.3	3248.0	1684.9	1750.9	1808.9
50°	2488.4	2826.2	1579.0	1704.9	1764.9
52.5°	2252.6	2480.4	1483.1	1627.0	1696.9
55°	1996.7	2172.6	1367.1	1527.0	1585.0
57.5°	1752.9	1894.8	1245.2	1403.1	1455.1
60°	1485.1	1621.0	1121.3	1269.2	1319.2
62.5°	1243.2	1387.1	1015.4	1135.3	1175.3
65°	1029.4	1171.3	915.4	1017.4	1049.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	839.5	991.4	833.5	919.4	949.4
70°	661.6	821.5	761.5	839.5	871.5
72.5°	517.7	679.6	701.6	773.5	805.5
75°	395.8	553.7	645.6	723.5	757.5
77.5°	293.8	451.7	593.6	683.6	719.5
80°	193.9	359.8	547.7	647.6	689.6
82.5°	121.9	289.8	501.7	611.6	655.6
85°	60.0	235.9	457.7	579.6	619.6
87.5°	20.0	195.9	417.7	547.7	581.6
90°	2.0	163.9	381.8	513.7	547.7
92.5°	2.0	141.9	351.8	473.7	507.7
95°	2.0	125.9	321.8	435.7	465.7
97.5°	2.0	113.9	293.8	395.8	427.7
100°	2.0	101.9	263.8	357.8	391.8
102.5°	4.0	93.9	237.9	325.8	361.8
105°	4.0	87.9	211.9	297.8	333.8
107.5°	4.0	83.9	189.9	275.8	309.8
110°	4.0	79.9	173.9	255.8	291.8
112.5°	4.0	78.0	163.9	237.9	271.8
115°	4.0	76.0	155.9	221.9	249.8
117.5°	6.0	74.0	149.9	205.9	227.9
120°	6.0	70.0	145.9	191.9	209.9
122.5°	6.0	66.0	139.9	179.9	193.9
125°	6.0	64.0	133.9	167.9	179.9
127.5°	6.0	60.0	127.9	157.9	169.9
130°	8.0	56.0	121.9	149.9	159.9
132.5°	8.0	52.0	115.9	145.9	153.9
135°	8.0	50.0	109.9	139.9	147.9
137.5°	8.0	46.0	103.9	133.9	141.9
140°	8.0	42.0	95.9	125.9	133.9
142.5°	8.0	40.0	87.9	117.9	125.9
145°	8.0	36.0	78.0	107.9	117.9
147.5°	10.0	34.0	70.0	99.9	107.9
150°	10.0	30.0	62.0	91.9	99.9
152.5°	10.0	26.0	54.0	81.9	89.9
155°	10.0	22.0	48.0	72.0	81.9
157.5°	10.0	20.0	42.0	60.0	72.0
160°	10.0	18.0	36.0	52.0	62.0
162.5°	10.0	16.0	32.0	44.0	54.0
165°	10.0	14.0	26.0	36.0	44.0
167.5°	12.0	14.0	22.0	28.0	36.0
170°	12.0	14.0	18.0	22.0	28.0
172.5°	12.0	12.0	14.0	16.0	18.0
175°	12.0	12.0	12.0	12.0	10.0
177.5°	12.0	12.0	12.0	10.0	10.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	10.0	10.0	10.0	10.0	10.0

(END OF REPORT)