

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: P566064

Luminaire Tested: **4SNX-116HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566064  
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-LW-UNV-L840-CD  
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

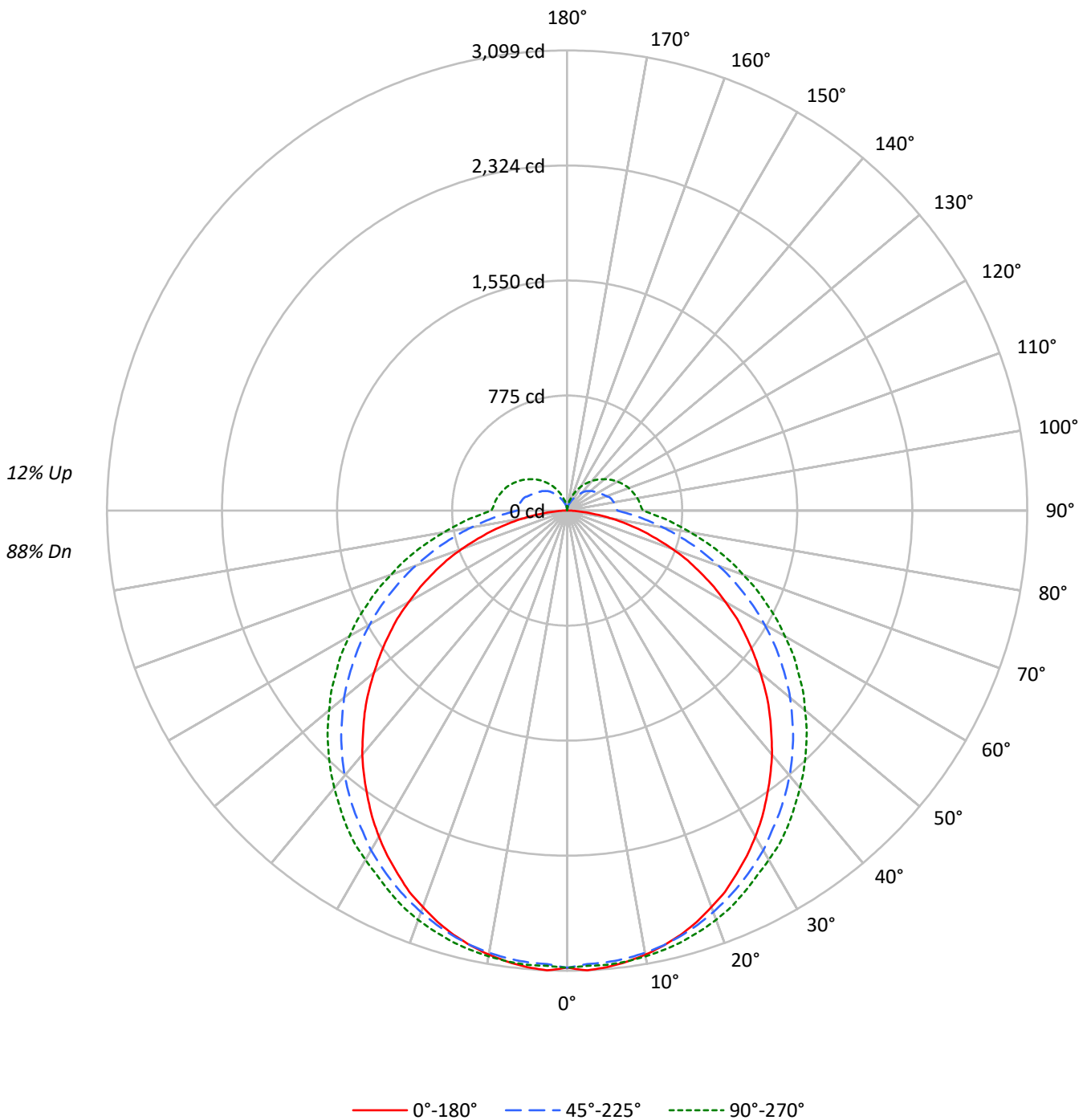
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11083.0 lumens  
Efficiency: N/A  
Efficacy: 129.8 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: 0.17')  
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°	33136	33136	33136
5°	33223	31611	31351
10°	32949	30364	29811
15°	32588	29127	28406
20°	32059	27876	27047
25°	31442	26661	25655
30°	30775	25471	24374
35°	29951	24225	23226
40°	29142	23057	21975
45°	28179	21828	20784
50°	27068	20559	19517
55°	25986	19165	18263
60°	24733	17699	16914
65°	23207	16105	15518
70°	21278	14379	14006
75°	18579	12490	12559
80°	14846	10599	10901
85°	9529	8784	9517



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.3	2.6
10°-20°	840.7	7.6
20°-30°	1278.9	11.5
30°-40°	1555.0	14.0
40°-50°	1645.2	14.8
50°-60°	1542.1	13.9
60°-70°	1268.7	11.4
70°-80°	877.8	7.9
80°-90°	488.1	4.4
90°-100°	321.6	2.9
100°-110°	288.4	2.6
110°-120°	238.7	2.2
120°-130°	184.5	1.7
130°-140°	130.6	1.2
140°-150°	78.8	0.7
150°-160°	37.8	0.3
160°-170°	12.4	0.1
170°-180°	1.5	0.0
0°-30°	2411.8	21.8
0°-40°	3966.9	35.8
0°-60°	7154.1	64.6
0°-90°	9788.7	88.3
90°-120°	848.6	7.7
90°-150°	1242.5	11.2
90°-180°	1294.0	11.7
0°-180°	11083.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3078	3078	3078	3078	3078	
5°	3086	3080	3054	3078	3071	293
15°	2957	2966	2965	3004	3004	833
25°	2699	2737	2769	2830	2832	1244
35°	2346	2408	2490	2570	2593	1468
45°	1928	2029	2152	2249	2276	1486
55°	1467	1598	1752	1862	1900	1313
65°	993	1135	1312	1440	1480	984
75°	516	666	862	998	1053	548
85°	114	283	478	611	664	131
90°	2	159	338	465	510	8
95°	2	152	328	450	494	2
105°	2	131	308	423	461	2
115°	4	114	260	376	418	3
125°	4	97	222	321	361	3
135°	4	76	186	264	296	3
145°	4	55	129	199	224	2
155°	6	38	80	127	148	3
165°	6	25	44	59	76	2
175°	6	10	13	13	8	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3078.4	3078.4	3078.4	3078.4	3078.4
2.5°	3099.3	3089.8	3057.6	3078.4	3068.9
5°	3086.0	3080.3	3053.8	3078.4	3070.8
7.5°	3065.1	3063.2	3042.4	3070.8	3063.2
10°	3036.7	3040.5	3023.4	3053.8	3048.1
12.5°	3000.6	3006.3	2998.7	3032.9	3029.1
15°	2957.0	2966.5	2964.6	3004.4	3004.4
17.5°	2903.8	2917.1	2924.7	2970.2	2970.2
20°	2841.2	2862.1	2877.2	2926.6	2934.2
22.5°	2778.6	2803.2	2826.0	2877.2	2888.6
25°	2698.8	2736.8	2769.1	2829.8	2831.7
27.5°	2621.0	2662.8	2706.4	2765.3	2771.0
30°	2535.6	2588.8	2641.9	2698.8	2715.9
32.5°	2444.5	2503.4	2562.2	2638.1	2660.9
35°	2345.8	2408.5	2490.1	2569.8	2592.6
37.5°	2247.1	2317.4	2412.3	2493.9	2514.7
40°	2146.5	2224.4	2330.6	2414.2	2438.8
42.5°	2034.6	2129.5	2243.3	2332.5	2361.0
45°	1928.3	2028.9	2152.2	2249.0	2275.6
47.5°	1816.3	1922.6	2055.4	2157.9	2188.3
50°	1696.7	1818.2	1960.6	2063.0	2091.5
52.5°	1584.8	1708.1	1858.1	1964.3	2004.2
55°	1467.1	1598.1	1751.8	1861.9	1899.8
57.5°	1357.0	1482.3	1647.4	1757.5	1804.9
60°	1231.8	1370.3	1535.4	1655.0	1692.9
62.5°	1114.1	1254.5	1425.3	1548.7	1592.4
65°	992.6	1135.0	1311.5	1440.5	1480.4
67.5°	878.7	1019.2	1199.5	1326.6	1377.9
70°	753.5	901.5	1085.6	1216.6	1260.2
72.5°	630.1	783.8	971.7	1112.2	1161.5
75°	516.2	666.2	861.7	998.3	1053.3
77.5°	406.2	558.0	755.4	895.8	943.3
80°	296.1	455.5	656.7	795.2	840.8
82.5°	195.5	362.5	561.8	700.3	749.7
85°	113.9	282.8	478.3	611.1	664.3
87.5°	49.3	214.5	400.5	531.4	575.1
90°	1.9	159.4	337.8	465.0	510.5
92.5°	1.9	155.6	330.2	455.5	499.2
95°	1.9	151.8	328.3	449.8	493.5
97.5°	1.9	149.9	324.5	446.0	487.8
100°	1.9	144.2	318.9	438.4	480.2
102.5°	1.9	136.7	313.2	430.8	470.7
105°	1.9	131.0	307.5	423.2	461.2
107.5°	1.9	125.3	298.0	413.7	451.7
110°	1.9	119.6	282.8	404.3	442.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	117.7	271.4	391.0	430.8
115°	3.8	113.9	260.0	375.8	417.5
117.5°	3.8	112.0	250.5	360.6	404.3
120°	3.8	106.3	241.0	347.3	389.1
122.5°	3.8	100.6	231.5	334.0	375.8
125°	3.8	96.8	222.1	320.7	360.6
127.5°	3.8	91.1	214.5	307.5	343.5
130°	3.8	87.3	205.0	292.3	328.3
132.5°	3.8	81.6	195.5	277.1	311.3
135°	3.8	75.9	186.0	263.8	296.1
137.5°	3.8	68.3	174.6	248.6	279.0
140°	3.8	62.6	159.4	233.4	261.9
142.5°	3.8	58.8	144.2	216.4	242.9
145°	3.8	55.0	129.1	199.3	224.0
147.5°	3.8	51.2	115.8	182.2	205.0
150°	3.8	45.6	102.5	167.0	186.0
152.5°	5.7	41.8	91.1	148.0	167.0
155°	5.7	38.0	79.7	127.2	148.0
157.5°	5.7	34.2	68.3	106.3	129.1
160°	5.7	30.4	58.8	87.3	110.1
162.5°	5.7	28.5	51.2	72.1	93.0
165°	5.7	24.7	43.7	58.8	75.9
167.5°	5.7	19.0	36.1	45.6	62.6
170°	5.7	15.2	28.5	32.3	47.4
172.5°	5.7	11.4	20.9	22.8	24.7
175°	5.7	9.5	13.3	13.3	7.6
177.5°	5.7	7.6	7.6	7.6	3.8
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)