

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: P566056

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-116HL-LN-UNV-L840-CD  
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

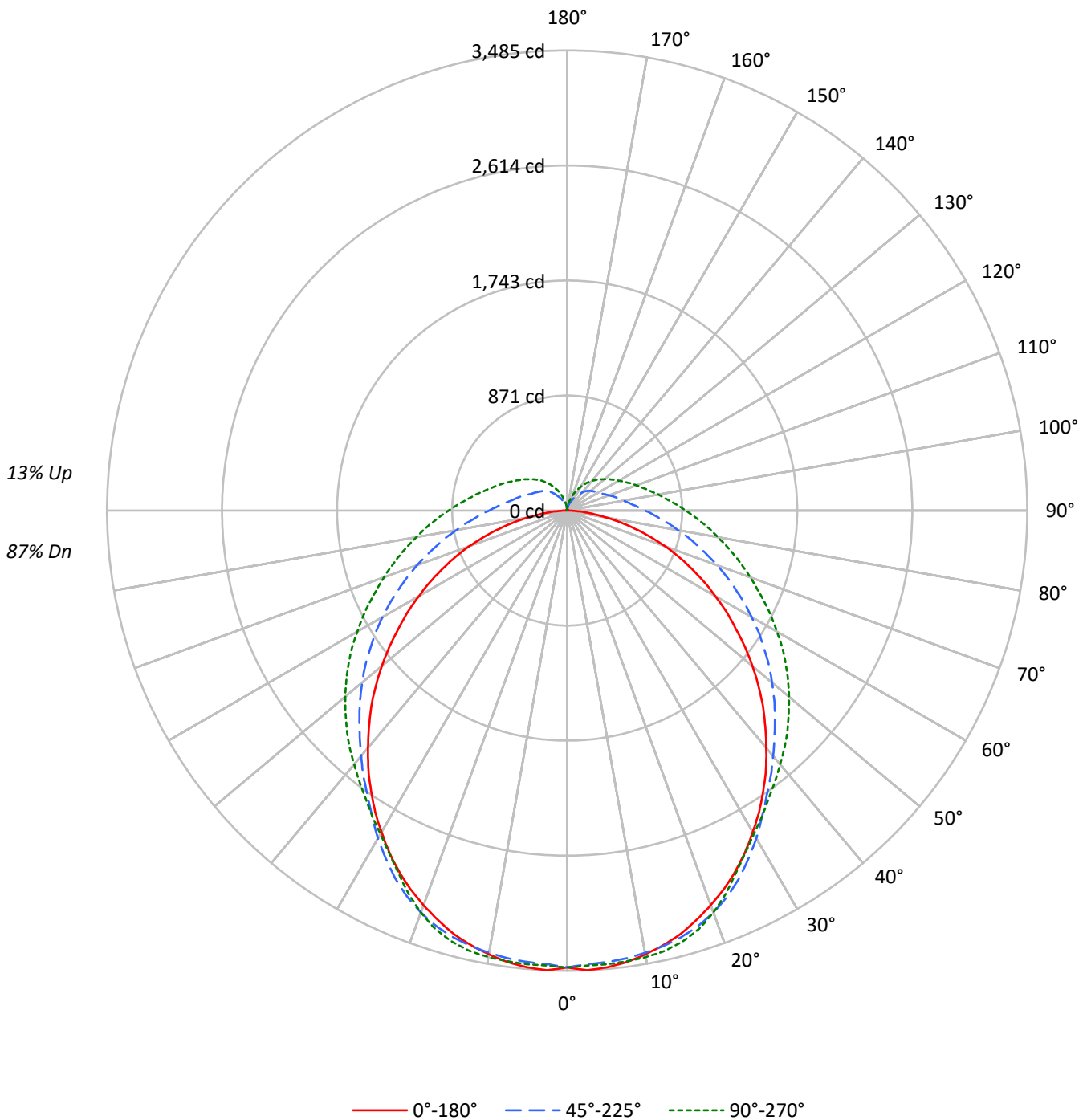
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12489.0 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
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	104	104	104		96	96	96		90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81		82	79	76		76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66		71	66	62		66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54		62	56	52		58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46		55	49	44		51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40		49	43	38		46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35		44	38	33		42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30		41	34	29		38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27		37	31	26		35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24		34	28	24		32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22		32	26	21		30	25	21	19

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

	0°	45°	90°
0°	37240	37240	37240
5°	37383	35528	35214
10°	37033	34150	33588
15°	36587	32847	31949
20°	35884	31386	29862
25°	35126	29620	27412
30°	34127	27639	25368
35°	33062	25624	23843
40°	31851	24005	22608
45°	30664	22570	21543
50°	29252	21248	20469
55°	27601	19921	19418
60°	26018	18598	18319
65°	24257	17264	17312
70°	22241	16013	16402
75°	19126	14791	15651
80°	15077	13738	15017
85°	10098	12987	14652



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.7	2.6
10°-20°	944.9	7.6
20°-30°	1407.1	11.3
30°-40°	1660.3	13.3
40°-50°	1731.5	13.9
50°-60°	1627.2	13.0
60°-70°	1374.2	11.0
70°-80°	1038.3	8.3
80°-90°	715.7	5.7
90°-100°	500.9	4.0
100°-110°	373.7	3.0
110°-120°	281.8	2.3
120°-130°	210.1	1.7
130°-140°	147.5	1.2
140°-150°	89.2	0.7
150°-160°	42.6	0.3
160°-170°	13.7	0.1
170°-180°	1.6	0.0
0°-30°	2680.7	21.5
0°-40°	4341.0	34.8
0°-60°	7699.7	61.7
0°-90°	10827.9	86.7
90°-120°	1156.4	9.3
90°-150°	1603.2	12.8
90°-180°	1661.0	13.3
0°-180°	12489.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3460	3460	3460	3460	3460	
5°	3472	3466	3432	3458	3449	330
15°	3320	3335	3343	3386	3379	935
25°	3015	3076	3076	3049	3026	1387
35°	2590	2685	2634	2655	2662	1619
45°	2098	2202	2225	2316	2359	1616
55°	1558	1692	1821	1967	2020	1398
65°	1038	1203	1406	1590	1652	1030
75°	531	737	1020	1234	1313	566
85°	121	379	707	940	1023	135
90°	2	269	591	817	898	8
95°	2	210	500	716	790	2
105°	4	150	385	559	622	4
115°	4	129	298	445	502	4
125°	6	110	252	364	411	6
135°	6	85	210	296	332	5
145°	8	61	146	227	254	5
155°	8	40	89	144	167	4
165°	11	25	47	64	85	3
175°	11	11	13	13	6	1
180°	6	6	6	6	6	



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CATALOG NUMBER: 4SNX-116HL-LN-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3459.7	3459.7	3459.7	3459.7	3459.7
2.5°	3485.1	3476.6	3438.5	3459.7	3449.1
5°	3472.4	3466.0	3432.2	3457.6	3449.1
7.5°	3449.1	3447.0	3421.6	3451.2	3442.7
10°	3413.1	3419.5	3400.4	3440.6	3434.3
12.5°	3370.8	3383.5	3377.1	3421.6	3415.2
15°	3319.9	3334.8	3343.2	3385.6	3379.2
17.5°	3252.2	3279.7	3298.8	3332.6	3322.1
20°	3180.2	3218.3	3239.5	3256.4	3239.5
22.5°	3101.9	3152.7	3165.4	3156.9	3140.0
25°	3015.0	3076.5	3076.5	3048.9	3025.6
27.5°	2917.7	2993.9	2972.7	2940.9	2921.9
30°	2811.8	2902.8	2866.8	2830.8	2826.6
32.5°	2705.9	2801.2	2748.3	2739.8	2746.2
35°	2589.5	2684.7	2633.9	2655.1	2661.5
37.5°	2473.0	2568.3	2534.4	2566.2	2585.2
40°	2346.0	2447.6	2426.4	2483.6	2509.0
42.5°	2221.1	2326.9	2324.8	2398.9	2437.0
45°	2098.3	2202.0	2225.3	2316.3	2358.7
47.5°	1964.9	2070.7	2127.9	2233.8	2276.1
50°	1833.6	1947.9	2026.3	2144.8	2193.5
52.5°	1698.1	1818.8	1926.8	2058.0	2108.8
55°	1558.3	1691.7	1820.9	1967.0	2019.9
57.5°	1433.4	1568.9	1721.4	1871.7	1933.1
60°	1295.8	1446.1	1613.4	1772.2	1833.6
62.5°	1170.9	1325.4	1511.8	1679.0	1744.7
65°	1037.5	1202.6	1405.9	1590.1	1651.5
67.5°	914.7	1084.1	1306.4	1492.7	1560.5
70°	787.6	967.6	1209.0	1405.9	1475.8
72.5°	656.4	846.9	1111.6	1321.2	1393.2
75°	531.4	736.8	1020.5	1234.4	1312.7
77.5°	415.0	631.0	938.0	1158.2	1234.4
80°	300.7	535.7	851.2	1079.8	1158.2
82.5°	199.0	453.1	781.3	1010.0	1092.5
85°	120.7	379.0	707.2	940.1	1022.7
87.5°	55.1	317.6	647.9	878.7	959.1
90°	2.1	268.9	590.7	817.3	897.7
92.5°	2.1	235.0	544.1	764.3	842.7
95°	2.1	209.6	499.7	715.7	789.8
97.5°	2.1	192.7	465.8	669.1	741.1
100°	2.1	175.7	431.9	626.7	700.8
102.5°	4.2	160.9	406.5	588.6	658.5
105°	4.2	150.3	385.4	559.0	622.5
107.5°	4.2	144.0	362.1	529.3	588.6
110°	4.2	137.6	336.7	499.7	559.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.2	133.4	317.6	474.3	531.4
115°	4.2	129.2	298.5	444.6	501.8
117.5°	4.2	127.0	288.0	421.3	476.4
120°	6.4	120.7	275.3	400.2	453.1
122.5°	6.4	114.3	262.5	383.2	429.8
125°	6.4	110.1	252.0	364.2	410.8
127.5°	6.4	103.7	241.4	347.2	389.6
130°	6.4	97.4	232.9	330.3	370.5
132.5°	6.4	91.0	222.3	313.4	351.5
135°	6.4	84.7	209.6	296.4	332.4
137.5°	6.4	78.3	196.9	279.5	313.4
140°	6.4	72.0	180.0	262.5	294.3
142.5°	6.4	65.6	163.0	245.6	273.1
145°	8.5	61.4	146.1	226.6	254.1
147.5°	8.5	55.1	129.2	207.5	230.8
150°	8.5	50.8	116.5	188.4	209.6
152.5°	8.5	44.5	103.7	167.3	188.4
155°	8.5	40.2	88.9	144.0	167.3
157.5°	8.5	36.0	76.2	120.7	146.1
160°	8.5	33.9	65.6	99.5	124.9
162.5°	10.6	29.6	55.1	80.5	103.7
165°	10.6	25.4	46.6	63.5	84.7
167.5°	10.6	21.2	38.1	48.7	65.6
170°	10.6	16.9	29.6	33.9	50.8
172.5°	10.6	12.7	21.2	23.3	25.4
175°	10.6	10.6	12.7	12.7	6.4
177.5°	10.6	10.6	8.5	6.4	2.1
180°	6.4	6.4	6.4	6.4	6.4

(END OF REPORT)