

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: P566057

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566057
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-L850-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

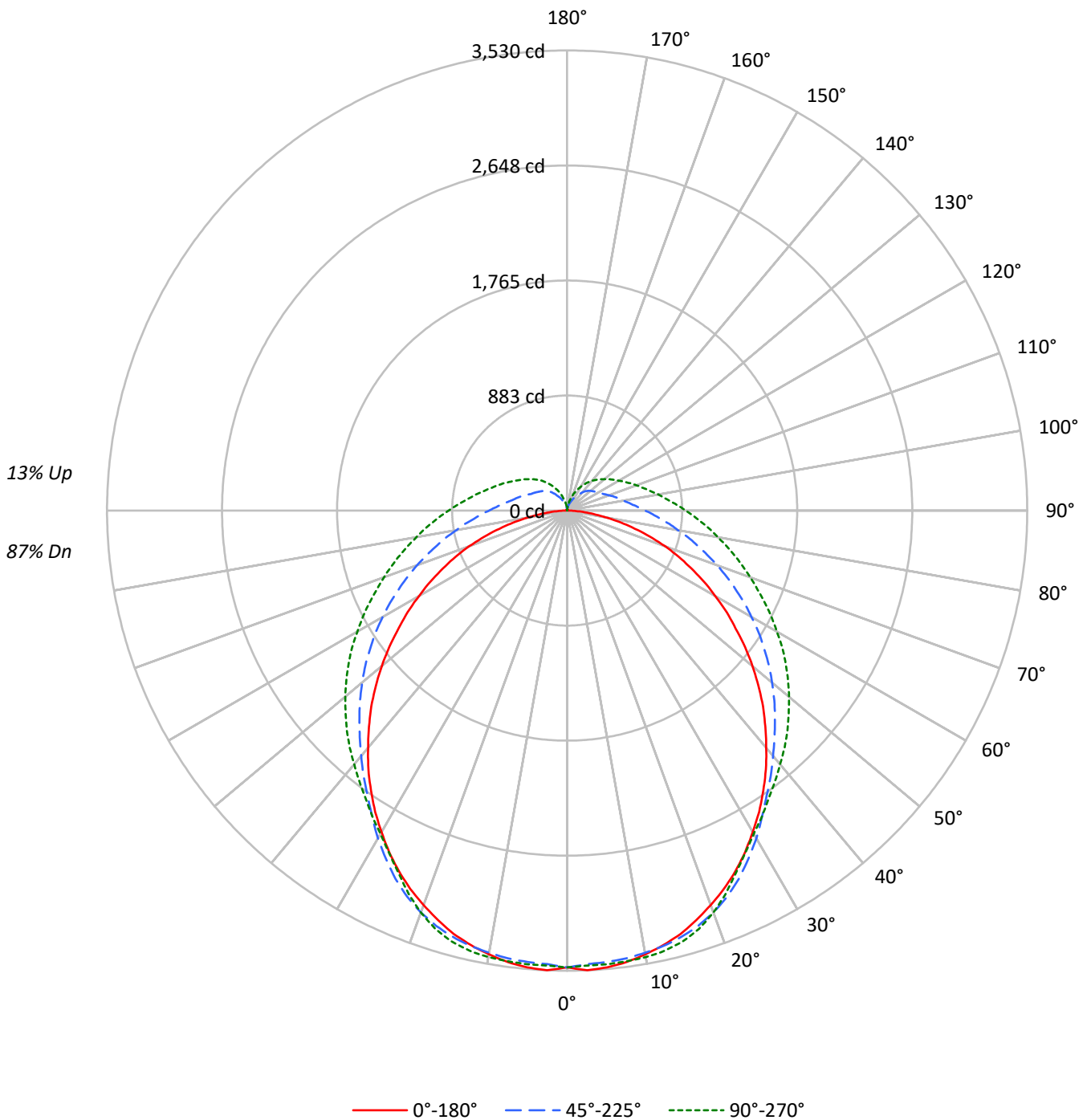
Lumens per Lamp: N/A
Luminaire Lumens: 12649.0 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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	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°	37717	37717	37717
5°	37862	35983	35665
10°	37507	34588	34019
15°	37057	33268	32359
20°	36343	31788	30244
25°	35577	30000	27764
30°	34564	27994	25693
35°	33485	25952	24148
40°	32258	24313	22898
45°	31055	22859	21819
50°	29627	21520	20731
55°	27955	20176	19667
60°	26351	18837	18554
65°	24568	17485	17534
70°	22526	16218	16612
75°	19374	14981	15853
80°	15267	13914	15208
85°	10223	13153	14840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.9	2.6
10°-20°	957.1	7.6
20°-30°	1425.1	11.3
30°-40°	1681.6	13.3
40°-50°	1753.7	13.9
50°-60°	1648.0	13.0
60°-70°	1391.8	11.0
70°-80°	1051.6	8.3
80°-90°	724.9	5.7
90°-100°	507.3	4.0
100°-110°	378.5	3.0
110°-120°	285.4	2.3
120°-130°	212.8	1.7
130°-140°	149.4	1.2
140°-150°	90.3	0.7
150°-160°	43.2	0.3
160°-170°	13.8	0.1
170°-180°	1.7	0.0
0°-30°	2715.1	21.5
0°-40°	4396.6	34.8
0°-60°	7798.4	61.7
0°-90°	10966.6	86.7
90°-120°	1171.2	9.3
90°-150°	1623.7	12.8
90°-180°	1682.0	13.3
0°-180°	12649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3504	3504	3504	3504	3504	
5°	3517	3510	3476	3502	3493	334
15°	3362	3378	3386	3429	3422	947
25°	3054	3116	3116	3088	3064	1405
35°	2623	2719	2668	2689	2696	1640
45°	2125	2230	2254	2346	2389	1637
55°	1578	1713	1844	1992	2046	1416
65°	1051	1218	1424	1610	1673	1043
75°	538	746	1034	1250	1330	573
85°	122	384	716	952	1036	137
90°	2	272	598	828	909	9
95°	2	212	506	725	800	2
105°	4	152	390	566	630	4
115°	4	131	302	450	508	5
125°	6	112	255	369	416	6
135°	6	86	212	300	337	5
145°	9	62	148	230	257	5
155°	9	41	90	146	169	4
165°	11	26	47	64	86	3
175°	11	11	13	13	6	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3504.0	3504.0	3504.0	3504.0	3504.0
2.5°	3529.7	3521.2	3482.6	3504.0	3493.3
5°	3516.9	3510.4	3476.1	3501.9	3493.3
7.5°	3493.3	3491.1	3465.4	3495.4	3486.9
10°	3456.8	3463.3	3444.0	3484.7	3478.3
12.5°	3413.9	3426.8	3420.4	3465.4	3459.0
15°	3362.5	3377.5	3386.1	3429.0	3422.5
17.5°	3293.9	3321.7	3341.0	3375.3	3364.6
20°	3220.9	3259.5	3281.0	3298.1	3281.0
22.5°	3141.6	3193.1	3205.9	3197.4	3180.2
25°	3053.7	3115.9	3115.9	3088.0	3064.4
27.5°	2955.0	3032.2	3010.8	2978.6	2959.3
30°	2847.8	2940.0	2903.6	2867.1	2862.8
32.5°	2740.6	2837.1	2783.5	2774.9	2781.3
35°	2622.6	2719.1	2667.7	2689.1	2695.6
37.5°	2504.7	2601.2	2566.9	2599.1	2618.4
40°	2376.0	2479.0	2457.5	2515.4	2541.2
42.5°	2249.5	2356.7	2354.6	2429.6	2468.2
45°	2125.1	2230.2	2253.8	2346.0	2388.9
47.5°	1990.0	2097.3	2155.2	2262.4	2305.3
50°	1857.1	1972.9	2052.2	2172.3	2221.6
52.5°	1719.8	1842.1	1951.4	2084.4	2135.9
55°	1578.3	1713.4	1844.2	1992.2	2045.8
57.5°	1451.8	1589.0	1743.4	1895.7	1957.9
60°	1312.4	1464.6	1634.1	1794.9	1857.1
62.5°	1185.9	1342.4	1531.1	1700.5	1767.0
65°	1050.8	1218.0	1423.9	1610.5	1672.7
67.5°	926.4	1098.0	1323.1	1511.8	1580.4
70°	797.7	980.0	1224.5	1423.9	1494.7
72.5°	664.8	857.8	1125.8	1338.1	1411.0
75°	538.3	746.3	1033.6	1250.2	1329.6
77.5°	420.3	639.0	950.0	1173.0	1250.2
80°	304.5	542.5	862.1	1093.7	1173.0
82.5°	201.6	458.9	791.3	1022.9	1106.5
85°	122.2	383.9	716.2	952.1	1035.8
87.5°	55.8	321.7	656.2	889.9	971.4
90°	2.1	272.3	598.3	827.8	909.2
92.5°	2.1	238.0	551.1	774.1	853.5
95°	2.1	212.3	506.1	724.8	799.9
97.5°	2.1	195.1	471.8	677.6	750.6
100°	2.1	178.0	437.5	634.8	709.8
102.5°	4.3	163.0	411.7	596.2	666.9
105°	4.3	152.3	390.3	566.1	630.5
107.5°	4.3	145.8	366.7	536.1	596.2
110°	4.3	139.4	341.0	506.1	566.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.3	135.1	321.7	480.4	538.3
115°	4.3	130.8	302.4	450.3	508.2
117.5°	4.3	128.7	291.6	426.7	482.5
120°	6.4	122.2	278.8	405.3	458.9
122.5°	6.4	115.8	265.9	388.1	435.3
125°	6.4	111.5	255.2	368.8	416.0
127.5°	6.4	105.1	244.5	351.7	394.6
130°	6.4	98.6	235.9	334.5	375.3
132.5°	6.4	92.2	225.2	317.4	356.0
135°	6.4	85.8	212.3	300.2	336.7
137.5°	6.4	79.3	199.4	283.1	317.4
140°	6.4	72.9	182.3	265.9	298.1
142.5°	6.4	66.5	165.1	248.8	276.6
145°	8.6	62.2	148.0	229.5	257.3
147.5°	8.6	55.8	130.8	210.2	233.7
150°	8.6	51.5	117.9	190.9	212.3
152.5°	8.6	45.0	105.1	169.4	190.9
155°	8.6	40.7	90.1	145.8	169.4
157.5°	8.6	36.5	77.2	122.2	148.0
160°	8.6	34.3	66.5	100.8	126.5
162.5°	10.7	30.0	55.8	81.5	105.1
165°	10.7	25.7	47.2	64.3	85.8
167.5°	10.7	21.4	38.6	49.3	66.5
170°	10.7	17.2	30.0	34.3	51.5
172.5°	10.7	12.9	21.4	23.6	25.7
175°	10.7	10.7	12.9	12.9	6.4
177.5°	10.7	10.7	8.6	6.4	2.1
180°	6.4	6.4	6.4	6.4	6.4

(END OF REPORT)