

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: P566066

Luminaire Tested: **4SNX-116HL-LW-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566066
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-L930-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

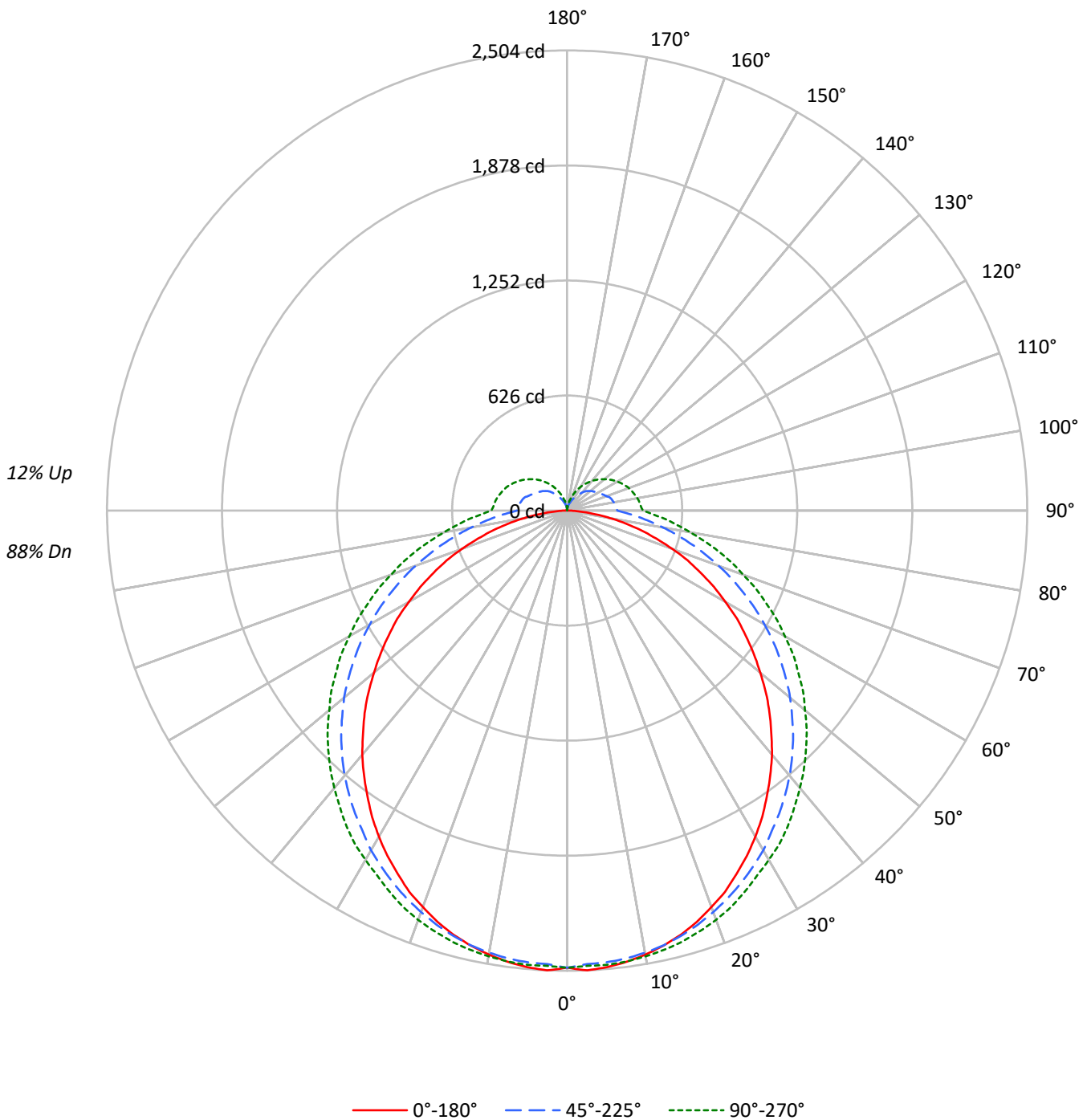
Lumens per Lamp: N/A
Luminaire Lumens: 8954.9 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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

TEST NUMBER: P566066

CATALOG NUMBER: 4SNX-116HL-LW-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566066

CATALOG NUMBER: 4SNX-116HL-LW-UNV-L930-CD

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°	26774	26774	26774
5°	26844	25541	25332
10°	26622	24534	24087
15°	26330	23534	22951
20°	25904	22524	21854
25°	25406	21542	20729
30°	24867	20580	19695
35°	24200	19574	18766
40°	23547	18630	17756
45°	22768	17638	16794
50°	21872	16611	15769
55°	20996	15485	14756
60°	19982	14301	13667
65°	18751	13013	12538
70°	17192	11618	11317
75°	15012	10091	10148
80°	11993	8564	8807
85°	7697	7096	7689



TEST NUMBER: P566066

CATALOG NUMBER: 4SNX-116HL-LW-UNV-L930-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	2.6
10°-20°	679.3	7.6
20°-30°	1033.3	11.5
30°-40°	1256.4	14.0
40°-50°	1329.3	14.8
50°-60°	1246.0	13.9
60°-70°	1025.1	11.4
70°-80°	709.3	7.9
80°-90°	394.4	4.4
90°-100°	259.8	2.9
100°-110°	233.0	2.6
110°-120°	192.9	2.2
120°-130°	149.1	1.7
130°-140°	105.5	1.2
140°-150°	63.7	0.7
150°-160°	30.6	0.3
160°-170°	10.0	0.1
170°-180°	1.2	0.0
0°-30°	1948.7	21.8
0°-40°	3205.2	35.8
0°-60°	5780.5	64.6
0°-90°	7909.2	88.3
90°-120°	685.6	7.7
90°-150°	1003.9	11.2
90°-180°	1046.0	11.7
0°-180°	8954.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2487	2487	2487	2487	2487	
5°	2494	2489	2467	2487	2481	237
15°	2389	2397	2395	2428	2428	673
25°	2181	2211	2237	2286	2288	1005
35°	1895	1946	2012	2076	2095	1186
45°	1558	1639	1739	1817	1839	1201
55°	1185	1291	1415	1504	1535	1061
65°	802	917	1060	1164	1196	795
75°	417	538	696	807	851	442
85°	92	228	386	494	537	106
90°	2	129	273	376	412	6
95°	2	123	265	363	399	1
105°	2	106	248	342	373	2
115°	3	92	210	304	337	2
125°	3	78	179	259	291	3
135°	3	61	150	213	239	2
145°	3	44	104	161	181	2
155°	5	31	64	103	120	2
165°	5	20	35	48	61	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



TEST NUMBER: P566066

CATALOG NUMBER: 4SNX-116HL-LW-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2487.4	2487.4	2487.4	2487.4	2487.4
2.5°	2504.2	2496.6	2470.5	2487.4	2479.7
5°	2493.5	2488.9	2467.4	2487.4	2481.2
7.5°	2476.6	2475.1	2458.2	2481.2	2475.1
10°	2453.6	2456.7	2442.9	2467.4	2462.8
12.5°	2424.5	2429.1	2422.9	2450.5	2447.5
15°	2389.2	2396.9	2395.3	2427.5	2427.5
17.5°	2346.3	2357.0	2363.1	2399.9	2399.9
20°	2295.7	2312.5	2324.8	2364.7	2370.8
22.5°	2245.1	2265.0	2283.4	2324.8	2334.0
25°	2180.7	2211.3	2237.4	2286.5	2288.0
27.5°	2117.8	2151.5	2186.8	2234.3	2238.9
30°	2048.8	2091.7	2134.6	2180.7	2194.5
32.5°	1975.2	2022.7	2070.2	2131.6	2150.0
35°	1895.4	1946.0	2012.0	2076.4	2094.8
37.5°	1815.7	1872.4	1949.1	2015.0	2031.9
40°	1734.4	1797.3	1883.1	1950.6	1970.6
42.5°	1643.9	1720.6	1812.6	1884.7	1907.7
45°	1558.0	1639.3	1739.0	1817.2	1838.7
47.5°	1467.6	1553.4	1660.8	1743.6	1768.1
50°	1371.0	1469.1	1584.1	1666.9	1689.9
52.5°	1280.5	1380.2	1501.3	1587.2	1619.4
55°	1185.4	1291.2	1415.4	1504.4	1535.0
57.5°	1096.5	1197.7	1331.1	1420.0	1458.4
60°	995.2	1107.2	1240.6	1337.2	1367.9
62.5°	900.2	1013.6	1151.7	1251.3	1286.6
65°	802.0	917.0	1059.7	1163.9	1196.1
67.5°	710.0	823.5	969.2	1071.9	1113.3
70°	608.8	728.4	877.2	983.0	1018.3
72.5°	509.1	633.3	785.2	898.6	938.5
75°	417.1	538.3	696.2	806.6	851.1
77.5°	328.2	450.9	610.3	723.8	762.2
80°	239.2	368.0	530.6	642.5	679.3
82.5°	158.0	292.9	453.9	565.9	605.7
85°	92.0	228.5	386.4	493.8	536.7
87.5°	39.9	173.3	323.6	429.4	464.7
90°	1.5	128.8	273.0	375.7	412.5
92.5°	1.5	125.7	266.8	368.0	403.3
95°	1.5	122.7	265.3	363.4	398.7
97.5°	1.5	121.1	262.2	360.4	394.1
100°	1.5	116.5	257.6	354.2	388.0
102.5°	1.5	110.4	253.0	348.1	380.3
105°	1.5	105.8	248.4	342.0	372.6
107.5°	1.5	101.2	240.8	334.3	365.0
110°	1.5	96.6	228.5	326.6	357.3



TEST NUMBER: P566066

CATALOG NUMBER: 4SNX-116HL-LW-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	95.1	219.3	315.9	348.1
115°	3.1	92.0	210.1	303.6	337.4
117.5°	3.1	90.5	202.4	291.4	326.6
120°	3.1	85.9	194.8	280.6	314.4
122.5°	3.1	81.3	187.1	269.9	303.6
125°	3.1	78.2	179.4	259.2	291.4
127.5°	3.1	73.6	173.3	248.4	277.6
130°	3.1	70.5	165.6	236.2	265.3
132.5°	3.1	65.9	158.0	223.9	251.5
135°	3.1	61.3	150.3	213.2	239.2
137.5°	3.1	55.2	141.1	200.9	225.4
140°	3.1	50.6	128.8	188.6	211.6
142.5°	3.1	47.5	116.5	174.8	196.3
145°	3.1	44.5	104.3	161.0	181.0
147.5°	3.1	41.4	93.5	147.2	165.6
150°	3.1	36.8	82.8	134.9	150.3
152.5°	4.6	33.7	73.6	119.6	134.9
155°	4.6	30.7	64.4	102.7	119.6
157.5°	4.6	27.6	55.2	85.9	104.3
160°	4.6	24.5	47.5	70.5	88.9
162.5°	4.6	23.0	41.4	58.3	75.1
165°	4.6	19.9	35.3	47.5	61.3
167.5°	4.6	15.3	29.1	36.8	50.6
170°	4.6	12.3	23.0	26.1	38.3
172.5°	4.6	9.2	16.9	18.4	19.9
175°	4.6	7.7	10.7	10.7	6.1
177.5°	4.6	6.1	6.1	6.1	3.1
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)