

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: P566039

Luminaire Tested: **4SNX-116HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566039
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-FDL-UNV-L835-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

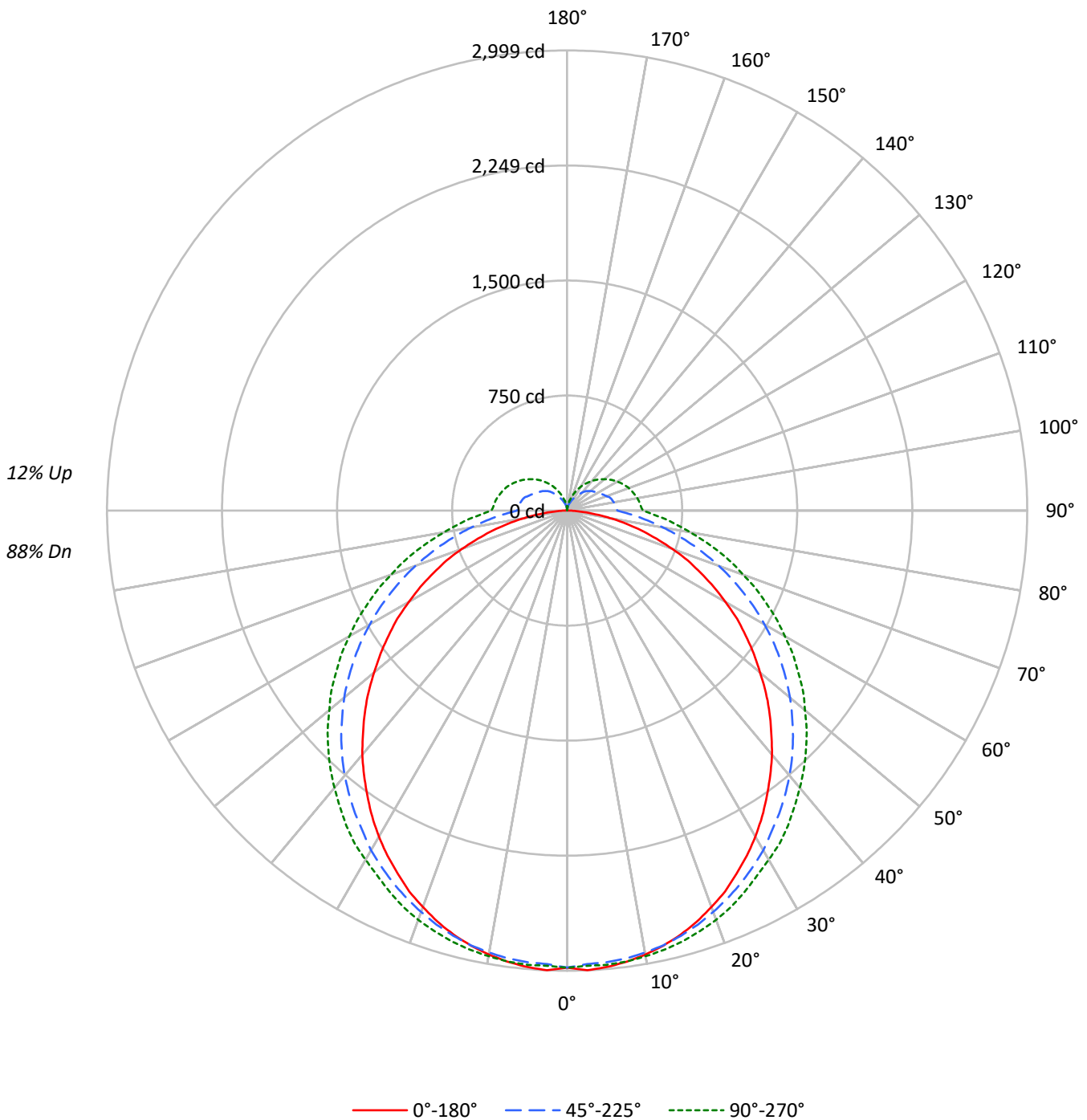
Lumens per Lamp: N/A
Luminaire Lumens: 10723.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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: P566039

CATALOG NUMBER: 4SNX-116HL-FDL-UNV-L835-CD

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°	32059	32059	32059
5°	32232	31579	31641
10°	32053	31282	31313
15°	31792	30926	31008
20°	31369	30498	30659
25°	30862	30063	30192
30°	30310	29628	29793
35°	29607	29106	29515
40°	28929	28672	29088
45°	28108	28170	28727
50°	27153	27640	28271
55°	26246	26982	27862
60°	25200	26280	27363
65°	23927	25477	26875
70°	22304	24594	26321
75°	19996	23630	26130
80°	16769	23031	25923
85°	12162	23504	27323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	2.6
10°-20°	813.4	7.6
20°-30°	1237.4	11.5
30°-40°	1504.5	14.0
40°-50°	1591.7	14.8
50°-60°	1492.0	13.9
60°-70°	1227.4	11.4
70°-80°	849.3	7.9
80°-90°	472.3	4.4
90°-100°	311.1	2.9
100°-110°	279.0	2.6
110°-120°	230.9	2.2
120°-130°	178.5	1.7
130°-140°	126.4	1.2
140°-150°	76.2	0.7
150°-160°	36.6	0.3
160°-170°	12.0	0.1
170°-180°	1.5	0.0
0°-30°	2333.5	21.8
0°-40°	3838.0	35.8
0°-60°	6921.7	64.6
0°-90°	9470.8	88.3
90°-120°	821.0	7.7
90°-150°	1202.2	11.2
90°-180°	1252.0	11.7
0°-180°	10723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2978	2978	2978	2978	2978	
5°	2986	2980	2955	2978	2971	283
15°	2861	2870	2868	2907	2907	806
25°	2611	2648	2679	2738	2740	1204
35°	2270	2330	2409	2486	2508	1420
45°	1866	1963	2082	2176	2202	1438
55°	1419	1546	1695	1801	1838	1271
65°	960	1098	1269	1394	1432	952
75°	500	644	834	966	1019	530
85°	110	274	463	591	643	127
90°	2	154	327	450	494	7
95°	2	147	318	435	477	1
105°	2	127	298	410	446	2
115°	4	110	252	364	404	3
125°	4	94	215	310	349	3
135°	4	74	180	255	286	3
145°	4	53	125	193	217	2
155°	6	37	77	123	143	2
165°	6	24	42	57	74	2
175°	6	9	13	13	7	1
180°	4	4	4	4	4	



TEST NUMBER: P566039

CATALOG NUMBER: 4SNX-116HL-FDL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2978.4	2978.4	2978.4	2978.4	2978.4
2.5°	2998.6	2989.5	2958.2	2978.4	2969.3
5°	2985.8	2980.3	2954.6	2978.4	2971.1
7.5°	2965.6	2963.7	2943.5	2971.1	2963.7
10°	2938.0	2941.7	2925.2	2954.6	2949.1
12.5°	2903.1	2908.7	2901.3	2934.4	2930.7
15°	2860.9	2870.1	2868.3	2906.8	2906.8
17.5°	2809.5	2822.4	2829.7	2873.8	2873.8
20°	2748.9	2769.1	2783.8	2831.5	2838.9
22.5°	2688.3	2712.2	2734.2	2783.8	2794.8
25°	2611.2	2647.9	2679.1	2737.9	2739.7
27.5°	2535.9	2576.3	2618.5	2675.4	2681.0
30°	2453.3	2504.7	2556.1	2611.2	2627.7
32.5°	2365.1	2422.0	2479.0	2552.4	2574.5
35°	2269.6	2330.2	2409.2	2486.3	2508.3
37.5°	2174.1	2242.1	2333.9	2412.9	2433.1
40°	2076.8	2152.1	2254.9	2335.7	2359.6
42.5°	1968.5	2060.3	2170.5	2256.8	2284.3
45°	1865.7	1963.0	2082.3	2176.0	2201.7
47.5°	1757.3	1860.1	1988.7	2087.8	2117.2
50°	1641.6	1759.1	1896.9	1996.0	2023.6
52.5°	1533.3	1652.6	1797.7	1900.5	1939.1
55°	1419.4	1546.1	1694.9	1801.4	1838.1
57.5°	1312.9	1434.1	1593.9	1700.4	1746.3
60°	1191.7	1325.8	1485.5	1601.2	1638.0
62.5°	1077.9	1213.8	1379.0	1498.4	1540.6
65°	960.4	1098.1	1268.9	1393.7	1432.3
67.5°	850.2	986.1	1160.5	1283.6	1333.1
70°	729.0	872.2	1050.3	1177.1	1219.3
72.5°	609.6	758.4	940.2	1076.1	1123.8
75°	499.5	644.5	833.7	965.9	1019.1
77.5°	393.0	539.9	730.8	866.7	912.6
80°	286.5	440.7	635.4	769.4	813.5
82.5°	189.1	350.7	543.5	677.6	725.3
85°	110.2	273.6	462.7	591.3	642.7
87.5°	47.7	207.5	387.5	514.2	556.4
90°	1.8	154.2	326.9	449.9	494.0
92.5°	1.8	150.6	319.5	440.7	482.9
95°	1.8	146.9	317.7	435.2	477.4
97.5°	1.8	145.1	314.0	431.5	471.9
100°	1.8	139.6	308.5	424.2	464.6
102.5°	1.8	132.2	303.0	416.8	455.4
105°	1.8	126.7	297.5	409.5	446.2
107.5°	1.8	121.2	288.3	400.3	437.0
110°	1.8	115.7	273.6	391.1	427.9



TEST NUMBER: P566039

CATALOG NUMBER: 4SNX-116HL-FDL-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	113.8	262.6	378.3	416.8
115°	3.7	110.2	251.6	363.6	404.0
117.5°	3.7	108.3	242.4	348.9	391.1
120°	3.7	102.8	233.2	336.0	376.4
122.5°	3.7	97.3	224.0	323.2	363.6
125°	3.7	93.6	214.8	310.3	348.9
127.5°	3.7	88.1	207.5	297.5	332.4
130°	3.7	84.5	198.3	282.8	317.7
132.5°	3.7	79.0	189.1	268.1	301.1
135°	3.7	73.5	180.0	255.2	286.5
137.5°	3.7	66.1	168.9	240.6	269.9
140°	3.7	60.6	154.2	225.9	253.4
142.5°	3.7	56.9	139.6	209.3	235.0
145°	3.7	53.3	124.9	192.8	216.7
147.5°	3.7	49.6	112.0	176.3	198.3
150°	3.7	44.1	99.2	161.6	180.0
152.5°	5.5	40.4	88.1	143.2	161.6
155°	5.5	36.7	77.1	123.0	143.2
157.5°	5.5	33.1	66.1	102.8	124.9
160°	5.5	29.4	56.9	84.5	106.5
162.5°	5.5	27.5	49.6	69.8	90.0
165°	5.5	23.9	42.2	56.9	73.5
167.5°	5.5	18.4	34.9	44.1	60.6
170°	5.5	14.7	27.5	31.2	45.9
172.5°	5.5	11.0	20.2	22.0	23.9
175°	5.5	9.2	12.9	12.9	7.3
177.5°	5.5	7.3	7.3	7.3	3.7
180°	3.7	3.7	3.7	3.7	3.7

(END OF REPORT)