

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: P566041

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566041
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-L850-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

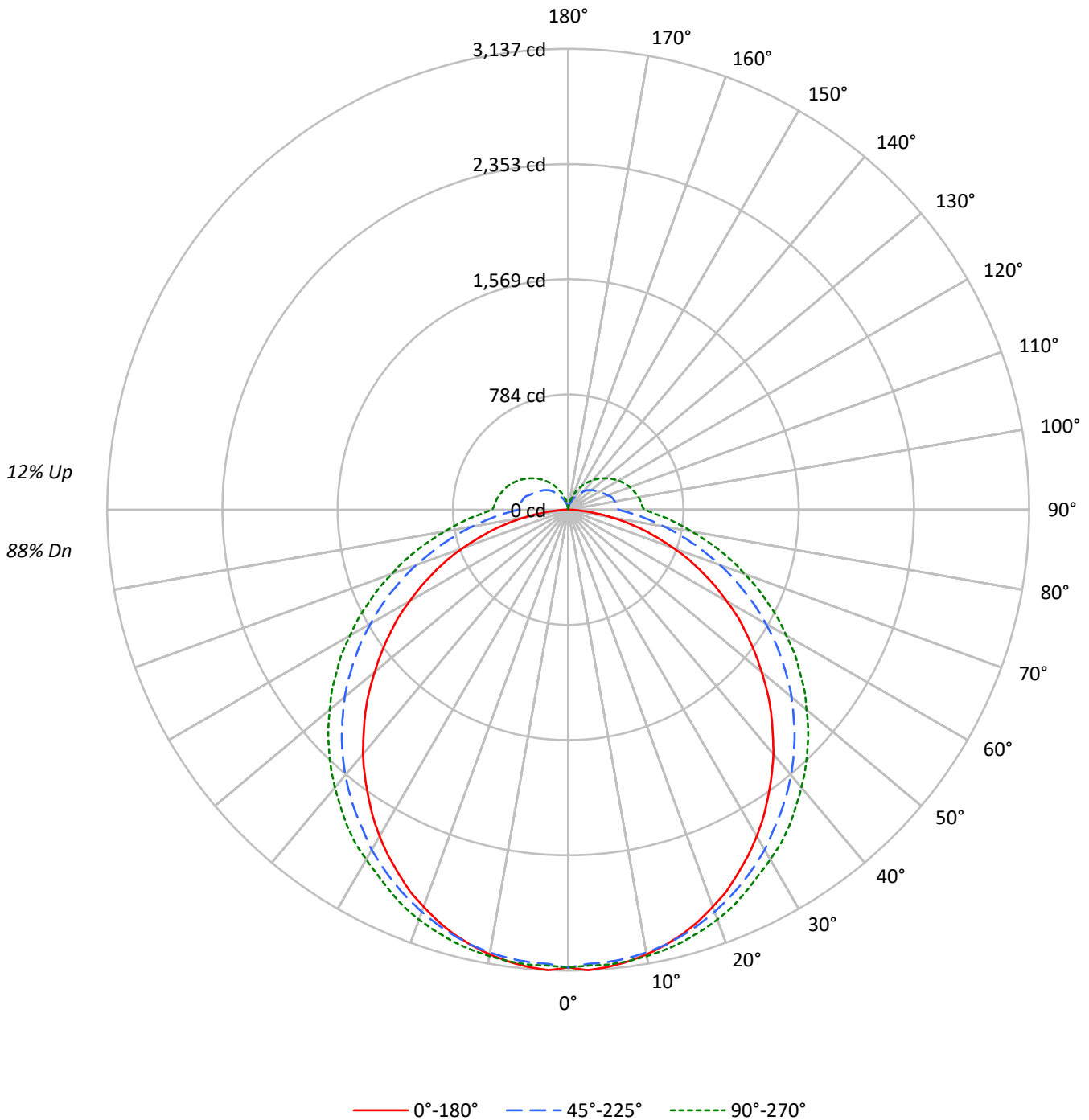
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11219.0 lumens
Efficiency: N/A
Efficacy: 131.4 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

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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°	33543	33543	33543
5°	33723	33039	33105
10°	33536	32729	32762
15°	33262	32355	32442
20°	32820	31909	32077
25°	32290	31454	31588
30°	31711	30998	31172
35°	30977	30452	30882
40°	30267	29998	30434
45°	29408	29474	30056
50°	28410	28918	29579
55°	27461	28230	29151
60°	26367	27497	28628
65°	25033	26656	28117
70°	23336	25732	27538
75°	20921	24721	27340
80°	17541	24093	27121
85°	12725	24591	28586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	2.6
10°-20°	851.0	7.6
20°-30°	1294.6	11.5
30°-40°	1574.1	14.0
40°-50°	1665.4	14.8
50°-60°	1561.1	13.9
60°-70°	1284.2	11.4
70°-80°	888.6	7.9
80°-90°	494.1	4.4
90°-100°	325.5	2.9
100°-110°	291.9	2.6
110°-120°	241.6	2.2
120°-130°	186.8	1.7
130°-140°	132.2	1.2
140°-150°	79.7	0.7
150°-160°	38.3	0.3
160°-170°	12.5	0.1
170°-180°	1.5	0.0
0°-30°	2441.4	21.8
0°-40°	4015.5	35.8
0°-60°	7242.0	64.6
0°-90°	9908.9	88.3
90°-120°	859.0	7.7
90°-150°	1257.8	11.2
90°-180°	1310.0	11.7
0°-180°	11219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3116	3116	3116	3116	3116	
5°	3124	3118	3091	3116	3108	297
15°	2993	3003	3001	3041	3041	844
25°	2732	2770	2803	2864	2866	1259
35°	2375	2438	2521	2601	2624	1486
45°	1952	2054	2179	2277	2304	1505
55°	1485	1618	1773	1885	1923	1329
65°	1005	1149	1328	1458	1498	996
75°	523	674	872	1011	1066	554
85°	115	286	484	619	672	133
90°	2	161	342	471	517	8
95°	2	154	332	455	500	2
105°	2	133	311	428	467	2
115°	4	115	263	380	423	3
125°	4	98	225	325	365	3
135°	4	77	188	267	300	3
145°	4	56	131	202	227	2
155°	6	38	81	129	150	3
165°	6	25	44	60	77	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°	3116.2	3116.2	3116.2	3116.2	3116.2
2.5°	3137.3	3127.7	3095.1	3116.2	3106.6
5°	3123.9	3118.1	3091.2	3116.2	3108.5
7.5°	3102.8	3100.8	3079.7	3108.5	3100.8
10°	3073.9	3077.8	3060.5	3091.2	3085.5
12.5°	3037.4	3043.2	3035.5	3070.1	3066.3
15°	2993.2	3002.9	3000.9	3041.3	3041.3
17.5°	2939.5	2952.9	2960.6	3006.7	3006.7
20°	2876.1	2897.2	2912.6	2962.5	2970.2
22.5°	2812.7	2837.6	2860.7	2912.6	2924.1
25°	2732.0	2770.4	2803.0	2864.5	2866.4
27.5°	2653.2	2695.5	2739.6	2799.2	2805.0
30°	2566.7	2620.5	2674.3	2732.0	2749.3
32.5°	2474.5	2534.1	2593.6	2670.5	2693.5
35°	2374.6	2438.0	2520.6	2601.3	2624.4
37.5°	2274.7	2345.8	2441.9	2524.5	2545.6
40°	2172.9	2251.7	2359.2	2443.8	2468.8
42.5°	2059.5	2155.6	2270.9	2361.2	2390.0
45°	1952.0	2053.8	2178.7	2276.6	2303.5
47.5°	1838.6	1946.2	2080.7	2184.4	2215.2
50°	1717.6	1840.5	1984.6	2088.4	2117.2
52.5°	1604.2	1729.1	1880.9	1988.5	2028.8
55°	1485.1	1617.7	1773.3	1884.7	1923.1
57.5°	1373.7	1500.5	1667.6	1779.0	1827.1
60°	1246.9	1387.1	1554.3	1675.3	1713.7
62.5°	1127.8	1269.9	1442.8	1567.7	1611.9
65°	1004.8	1148.9	1327.6	1458.2	1498.5
67.5°	889.5	1031.7	1214.2	1342.9	1394.8
70°	762.7	912.6	1098.9	1231.5	1275.7
72.5°	637.8	793.5	983.7	1125.8	1175.8
75°	522.6	674.3	872.2	1010.6	1066.3
77.5°	411.1	564.8	764.6	906.8	954.8
80°	299.7	461.1	664.7	805.0	851.1
82.5°	197.9	367.0	568.7	708.9	758.9
85°	115.3	286.3	484.1	618.6	672.4
87.5°	50.0	217.1	405.4	537.9	582.1
90°	1.9	161.4	342.0	470.7	516.8
92.5°	1.9	157.5	334.3	461.1	505.3
95°	1.9	153.7	332.4	455.3	499.5
97.5°	1.9	151.8	328.5	451.5	493.8
100°	1.9	146.0	322.8	443.8	486.1
102.5°	1.9	138.3	317.0	436.1	476.5
105°	1.9	132.6	311.2	428.4	466.9
107.5°	1.9	126.8	301.6	418.8	457.2
110°	1.9	121.0	286.3	409.2	447.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	119.1	274.7	395.8	436.1
115°	3.8	115.3	263.2	380.4	422.7
117.5°	3.8	113.4	253.6	365.0	409.2
120°	3.8	107.6	244.0	351.6	393.8
122.5°	3.8	101.8	234.4	338.1	380.4
125°	3.8	98.0	224.8	324.7	365.0
127.5°	3.8	92.2	217.1	311.2	347.7
130°	3.8	88.4	207.5	295.9	332.4
132.5°	3.8	82.6	197.9	280.5	315.1
135°	3.8	76.8	188.3	267.0	299.7
137.5°	3.8	69.2	176.8	251.7	282.4
140°	3.8	63.4	161.4	236.3	265.1
142.5°	3.8	59.6	146.0	219.0	245.9
145°	3.8	55.7	130.6	201.7	226.7
147.5°	3.8	51.9	117.2	184.4	207.5
150°	3.8	46.1	103.7	169.1	188.3
152.5°	5.8	42.3	92.2	149.9	169.1
155°	5.8	38.4	80.7	128.7	149.9
157.5°	5.8	34.6	69.2	107.6	130.6
160°	5.8	30.7	59.6	88.4	111.4
162.5°	5.8	28.8	51.9	73.0	94.1
165°	5.8	25.0	44.2	59.6	76.8
167.5°	5.8	19.2	36.5	46.1	63.4
170°	5.8	15.4	28.8	32.7	48.0
172.5°	5.8	11.5	21.1	23.1	25.0
175°	5.8	9.6	13.4	13.4	7.7
177.5°	5.8	7.7	7.7	7.7	3.8
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)