

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: P566045

Luminaire Tested: **4SNX-116HL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566045
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-L950-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

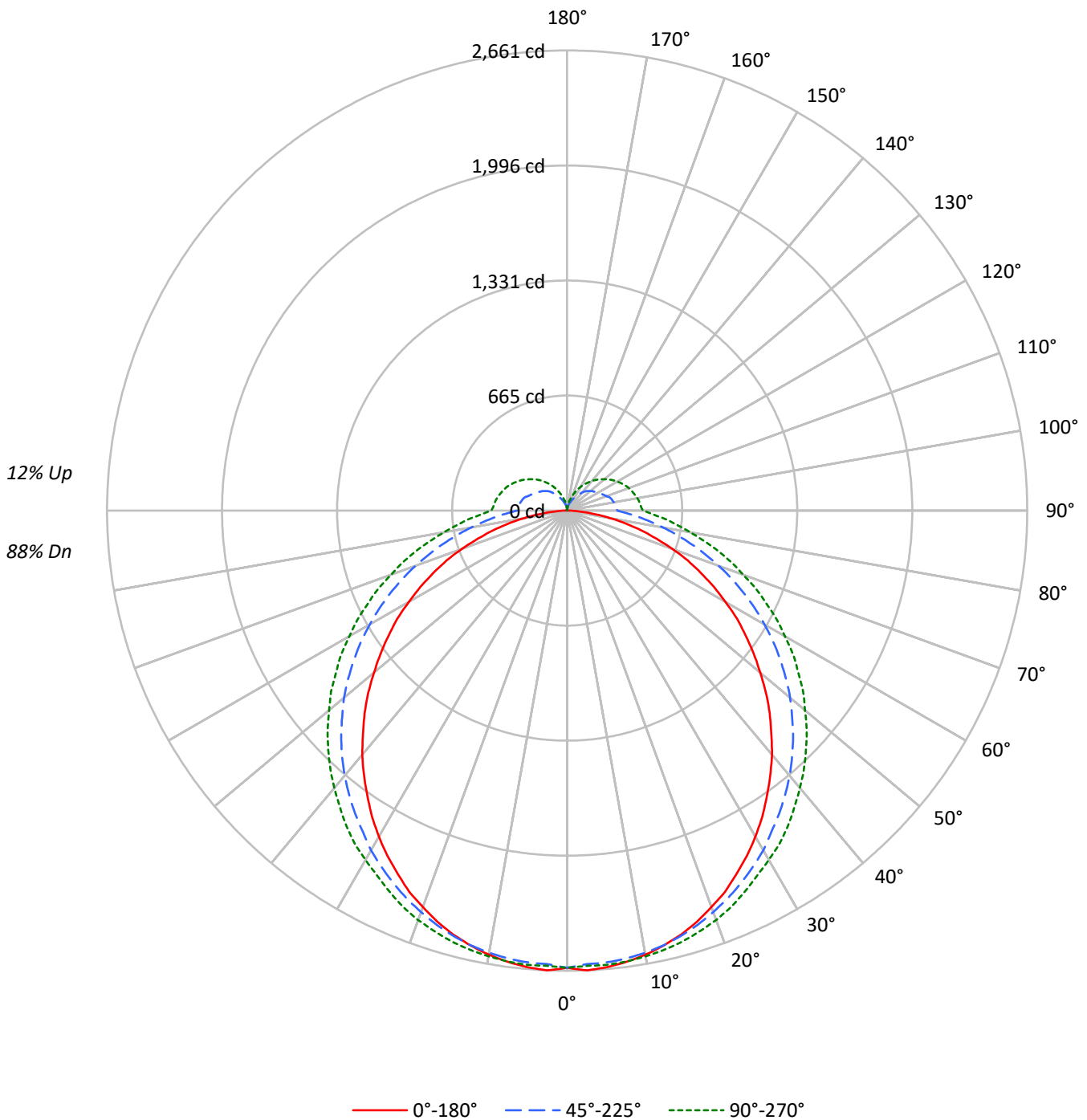
Lumens per Lamp: N/A
Luminaire Lumens: 9517.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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°	28454	28454	28454
5°	28607	28027	28082
10°	28449	27763	27791
15°	28217	27447	27520
20°	27841	27068	27211
25°	27391	26682	26797
30°	26900	26296	26443
35°	26278	25832	26196
40°	25675	25447	25816
45°	24946	25002	25497
50°	24099	24531	25091
55°	23295	23948	24729
60°	22366	23326	24285
65°	21236	22612	23852
70°	19796	21828	23361
75°	17746	20971	23191
80°	14878	20439	23007
85°	10793	20863	24250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	2.6
10°-20°	721.9	7.6
20°-30°	1098.2	11.5
30°-40°	1335.3	14.0
40°-50°	1412.7	14.8
50°-60°	1324.2	13.9
60°-70°	1089.4	11.4
70°-80°	753.8	7.9
80°-90°	419.2	4.4
90°-100°	276.1	2.9
100°-110°	247.6	2.6
110°-120°	205.0	2.2
120°-130°	158.4	1.7
130°-140°	112.2	1.2
140°-150°	67.7	0.7
150°-160°	32.5	0.3
160°-170°	10.6	0.1
170°-180°	1.3	0.0
0°-30°	2071.0	21.8
0°-40°	3406.3	35.8
0°-60°	6143.3	64.6
0°-90°	8405.6	88.3
90°-120°	728.7	7.7
90°-150°	1067.0	11.2
90°-180°	1111.0	11.7
0°-180°	9517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2644	2644	2644	2644	2644	
5°	2650	2645	2622	2644	2637	252
15°	2539	2547	2546	2580	2580	716
25°	2318	2350	2378	2430	2432	1068
35°	2014	2068	2138	2207	2226	1261
45°	1656	1742	1848	1931	1954	1276
55°	1260	1372	1504	1599	1631	1128
65°	852	975	1126	1237	1271	845
75°	443	572	740	857	904	470
85°	98	243	411	525	570	113
90°	2	137	290	399	438	6
95°	2	130	282	386	424	1
105°	2	112	264	363	396	2
115°	3	98	223	323	358	3
125°	3	83	191	275	310	3
135°	3	65	160	226	254	3
145°	3	47	111	171	192	2
155°	5	33	68	109	127	2
165°	5	21	38	50	65	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2643.5	2643.5	2643.5	2643.5	2643.5
2.5°	2661.4	2653.2	2625.5	2643.5	2635.3
5°	2650.0	2645.1	2622.3	2643.5	2636.9
7.5°	2632.0	2630.4	2612.5	2636.9	2630.4
10°	2607.6	2610.9	2596.2	2622.3	2617.4
12.5°	2576.6	2581.5	2575.0	2604.3	2601.1
15°	2539.2	2547.3	2545.7	2579.9	2579.9
17.5°	2493.5	2504.9	2511.4	2550.6	2550.6
20°	2439.7	2457.7	2470.7	2513.1	2519.6
22.5°	2386.0	2407.1	2426.7	2470.7	2480.5
25°	2317.5	2350.1	2377.8	2430.0	2431.6
27.5°	2250.7	2286.5	2324.0	2374.5	2379.4
30°	2177.3	2223.0	2268.6	2317.5	2332.2
32.5°	2099.1	2149.6	2200.2	2265.4	2284.9
35°	2014.4	2068.2	2138.2	2206.7	2226.2
37.5°	1929.6	1989.9	2071.4	2141.5	2159.4
40°	1843.2	1910.1	2001.3	2073.0	2094.2
42.5°	1747.1	1828.6	1926.4	2003.0	2027.4
45°	1655.8	1742.2	1848.1	1931.3	1954.1
47.5°	1559.7	1650.9	1765.0	1853.0	1879.1
50°	1457.0	1561.3	1683.5	1771.5	1796.0
52.5°	1360.8	1466.8	1595.5	1686.8	1721.0
55°	1259.8	1372.2	1504.3	1598.8	1631.4
57.5°	1165.3	1272.8	1414.6	1509.1	1549.9
60°	1057.7	1176.7	1318.5	1421.1	1453.7
62.5°	956.7	1077.3	1223.9	1329.9	1367.4
65°	852.4	974.6	1126.2	1237.0	1271.2
67.5°	754.6	875.2	1030.0	1139.2	1183.2
70°	647.0	774.1	932.2	1044.7	1082.2
72.5°	541.1	673.1	834.4	955.0	997.4
75°	443.3	572.0	739.9	857.2	904.5
77.5°	348.8	479.1	648.6	769.2	810.0
80°	254.2	391.1	563.9	682.9	722.0
82.5°	167.9	311.3	482.4	601.4	643.8
85°	97.8	242.8	410.7	524.8	570.4
87.5°	42.4	184.2	343.9	456.3	493.8
90°	1.6	136.9	290.1	399.3	438.4
92.5°	1.6	133.6	283.6	391.1	428.6
95°	1.6	130.4	281.9	386.3	423.7
97.5°	1.6	128.8	278.7	383.0	418.8
100°	1.6	123.9	273.8	376.5	412.3
102.5°	1.6	117.3	268.9	370.0	404.2
105°	1.6	112.5	264.0	363.4	396.0
107.5°	1.6	107.6	255.9	355.3	387.9
110°	1.6	102.7	242.8	347.1	379.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	101.0	233.1	335.7	370.0
115°	3.3	97.8	223.3	322.7	358.5
117.5°	3.3	96.2	215.1	309.7	347.1
120°	3.3	91.3	207.0	298.2	334.1
122.5°	3.3	86.4	198.8	286.8	322.7
125°	3.3	83.1	190.7	275.4	309.7
127.5°	3.3	78.2	184.2	264.0	295.0
130°	3.3	75.0	176.0	251.0	281.9
132.5°	3.3	70.1	167.9	237.9	267.3
135°	3.3	65.2	159.7	226.5	254.2
137.5°	3.3	58.7	149.9	213.5	239.6
140°	3.3	53.8	136.9	200.5	224.9
142.5°	3.3	50.5	123.9	185.8	208.6
145°	3.3	47.3	110.8	171.1	192.3
147.5°	3.3	44.0	99.4	156.5	176.0
150°	3.3	39.1	88.0	143.4	159.7
152.5°	4.9	35.9	78.2	127.1	143.4
155°	4.9	32.6	68.4	109.2	127.1
157.5°	4.9	29.3	58.7	91.3	110.8
160°	4.9	26.1	50.5	75.0	94.5
162.5°	4.9	24.4	44.0	61.9	79.9
165°	4.9	21.2	37.5	50.5	65.2
167.5°	4.9	16.3	31.0	39.1	53.8
170°	4.9	13.0	24.4	27.7	40.7
172.5°	4.9	9.8	17.9	19.6	21.2
175°	4.9	8.1	11.4	11.4	6.5
177.5°	4.9	6.5	6.5	6.5	3.3
180°	3.3	3.3	3.3	3.3	3.3

(END OF REPORT)