

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: P566040

Luminaire Tested: **4SNX-116HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566040
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-L840-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

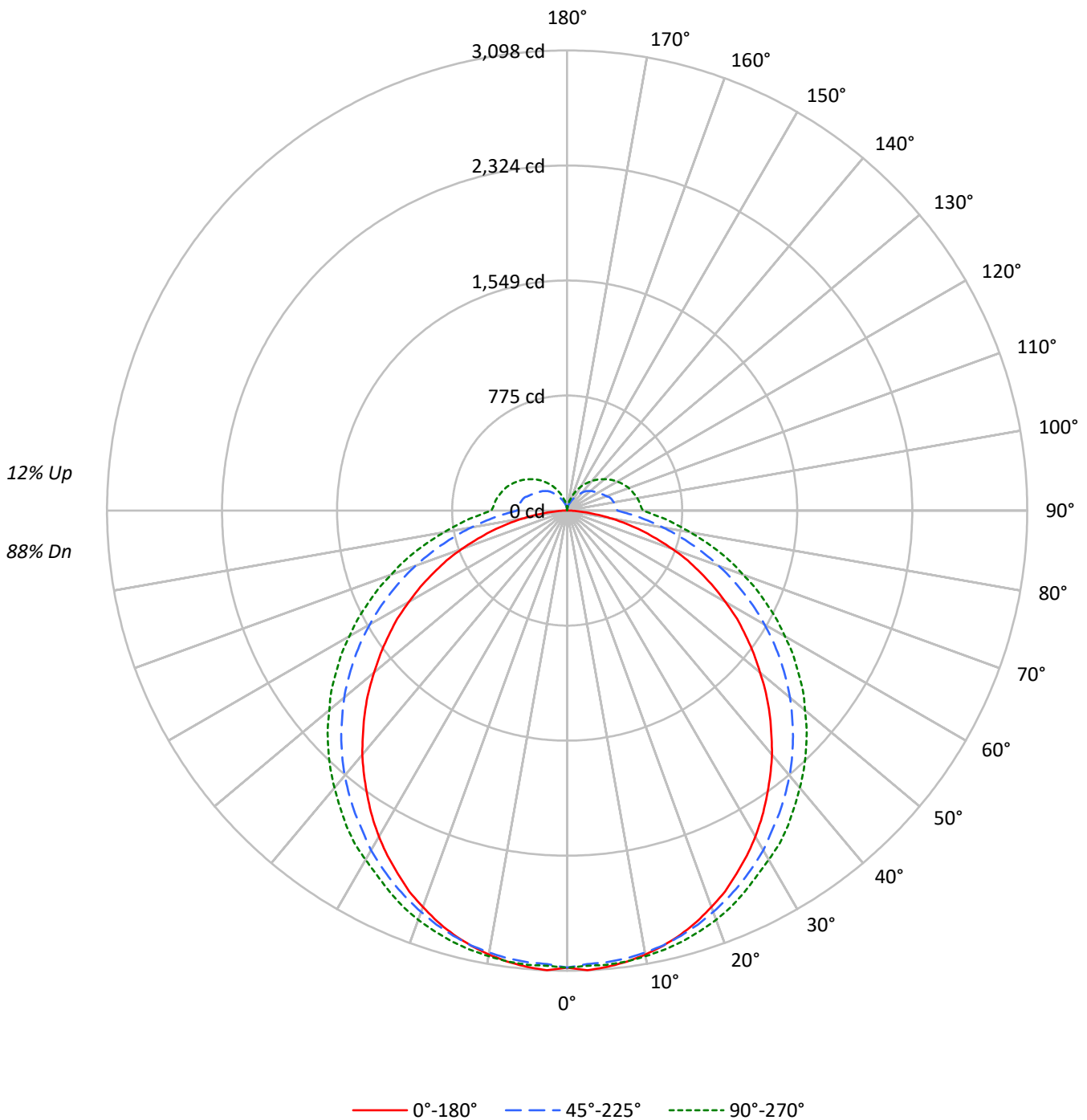
Lumens per Lamp: N/A
Luminaire Lumens: 11077.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 85.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P566040

CATALOG NUMBER: 4SNX-116HL-FDL-UNV-L840-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°	33118	33118	33118
5°	33296	32621	32686
10°	33112	32315	32346
15°	32842	31946	32032
20°	32405	31505	31671
25°	31881	31056	31189
30°	31311	30606	30777
35°	30586	30066	30491
40°	29884	29619	30048
45°	29034	29101	29676
50°	28049	28552	29204
55°	27114	27872	28782
60°	26033	27149	28265
65°	24716	26318	27762
70°	23042	25406	27188
75°	20657	24409	26994
80°	17319	23789	26777
85°	12559	24281	28225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	2.6
10°-20°	840.2	7.6
20°-30°	1278.2	11.5
30°-40°	1554.2	14.0
40°-50°	1644.3	14.8
50°-60°	1541.3	13.9
60°-70°	1268.0	11.4
70°-80°	877.3	7.9
80°-90°	487.8	4.4
90°-100°	321.4	2.9
100°-110°	288.2	2.6
110°-120°	238.6	2.2
120°-130°	184.4	1.7
130°-140°	130.6	1.2
140°-150°	78.7	0.7
150°-160°	37.8	0.3
160°-170°	12.4	0.1
170°-180°	1.5	0.0
0°-30°	2410.5	21.8
0°-40°	3964.7	35.8
0°-60°	7150.3	64.6
0°-90°	9783.4	88.3
90°-120°	848.2	7.7
90°-150°	1241.9	11.2
90°-180°	1294.0	11.7
0°-180°	11077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3077	3077	3077	3077	3077	
5°	3084	3079	3052	3077	3069	293
15°	2955	2965	2963	3003	3003	833
25°	2697	2735	2768	2828	2830	1243
35°	2345	2407	2489	2568	2591	1467
45°	1927	2028	2151	2248	2274	1485
55°	1466	1597	1751	1861	1899	1313
65°	992	1134	1311	1440	1480	984
75°	516	666	861	998	1053	547
85°	114	283	478	611	664	131
90°	2	159	338	465	510	8
95°	2	152	328	450	493	2
105°	2	131	307	423	461	2
115°	4	114	260	376	417	3
125°	4	97	222	321	360	3
135°	4	76	186	264	296	3
145°	4	55	129	199	224	2
155°	6	38	80	127	148	3
165°	6	25	44	59	76	2
175°	6	10	13	13	8	1
180°	4	4	4	4	4	



TEST NUMBER: P566040

CATALOG NUMBER: 4SNX-116HL-FDL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3076.8	3076.8	3076.8	3076.8	3076.8
2.5°	3097.6	3088.1	3055.9	3076.8	3067.3
5°	3084.3	3078.7	3052.1	3076.8	3069.2
7.5°	3063.5	3061.6	3040.7	3069.2	3061.6
10°	3035.0	3038.8	3021.8	3052.1	3046.4
12.5°	2999.0	3004.7	2997.1	3031.2	3027.4
15°	2955.4	2964.8	2962.9	3002.8	3002.8
17.5°	2902.2	2915.5	2923.1	2968.6	2968.6
20°	2839.7	2860.5	2875.7	2925.0	2932.6
22.5°	2777.1	2801.7	2824.5	2875.7	2887.1
25°	2697.4	2735.3	2767.6	2828.3	2830.2
27.5°	2619.6	2661.3	2705.0	2763.8	2769.5
30°	2534.3	2587.4	2640.5	2697.4	2714.5
32.5°	2443.2	2502.0	2560.8	2636.7	2659.4
35°	2344.6	2407.2	2488.7	2568.4	2591.2
37.5°	2245.9	2316.1	2411.0	2492.5	2513.4
40°	2145.4	2223.2	2329.4	2412.8	2437.5
42.5°	2033.5	2128.3	2242.1	2331.3	2359.7
45°	1927.2	2027.8	2151.1	2247.8	2274.4
47.5°	1815.3	1921.6	2054.3	2156.8	2187.1
50°	1695.8	1817.2	1959.5	2061.9	2090.4
52.5°	1583.9	1707.2	1857.1	1963.3	2003.1
55°	1466.3	1597.2	1750.8	1860.9	1898.8
57.5°	1356.3	1481.5	1646.5	1756.5	1803.9
60°	1231.1	1369.6	1534.6	1654.1	1692.0
62.5°	1113.5	1253.8	1424.6	1547.9	1591.5
65°	992.1	1134.3	1310.8	1439.7	1479.6
67.5°	878.3	1018.6	1198.8	1325.9	1377.1
70°	753.1	901.0	1085.0	1215.9	1259.5
72.5°	629.8	783.4	971.2	1111.6	1160.9
75°	516.0	665.8	861.2	997.8	1052.8
77.5°	405.9	557.7	755.0	895.3	942.8
80°	295.9	455.3	656.3	794.8	840.3
82.5°	195.4	362.3	561.5	700.0	749.3
85°	113.8	282.6	478.0	610.8	663.9
87.5°	49.3	214.3	400.2	531.1	574.8
90°	1.9	159.3	337.6	464.7	510.3
92.5°	1.9	155.5	330.1	455.3	498.9
95°	1.9	151.8	328.2	449.6	493.2
97.5°	1.9	149.9	324.4	445.8	487.5
100°	1.9	144.2	318.7	438.2	479.9
102.5°	1.9	136.6	313.0	430.6	470.4
105°	1.9	130.9	307.3	423.0	460.9
107.5°	1.9	125.2	297.8	413.5	451.5
110°	1.9	119.5	282.6	404.0	442.0



TEST NUMBER: P566040

CATALOG NUMBER: 4SNX-116HL-FDL-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	117.6	271.3	390.8	430.6
115°	3.8	113.8	259.9	375.6	417.3
117.5°	3.8	111.9	250.4	360.4	404.0
120°	3.8	106.2	240.9	347.1	388.9
122.5°	3.8	100.5	231.4	333.9	375.6
125°	3.8	96.7	221.9	320.6	360.4
127.5°	3.8	91.1	214.3	307.3	343.3
130°	3.8	87.3	204.9	292.1	328.2
132.5°	3.8	81.6	195.4	276.9	311.1
135°	3.8	75.9	185.9	263.7	295.9
137.5°	3.8	68.3	174.5	248.5	278.8
140°	3.8	62.6	159.3	233.3	261.8
142.5°	3.8	58.8	144.2	216.2	242.8
145°	3.8	55.0	129.0	199.2	223.8
147.5°	3.8	51.2	115.7	182.1	204.9
150°	3.8	45.5	102.4	166.9	185.9
152.5°	5.7	41.7	91.1	148.0	166.9
155°	5.7	37.9	79.7	127.1	148.0
157.5°	5.7	34.1	68.3	106.2	129.0
160°	5.7	30.4	58.8	87.3	110.0
162.5°	5.7	28.5	51.2	72.1	92.9
165°	5.7	24.7	43.6	58.8	75.9
167.5°	5.7	19.0	36.0	45.5	62.6
170°	5.7	15.2	28.5	32.2	47.4
172.5°	5.7	11.4	20.9	22.8	24.7
175°	5.7	9.5	13.3	13.3	7.6
177.5°	5.7	7.6	7.6	7.6	3.8
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)