

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: P566008

Luminaire Tested: **4SNX-104HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-104HL-LN-UNV-L840-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

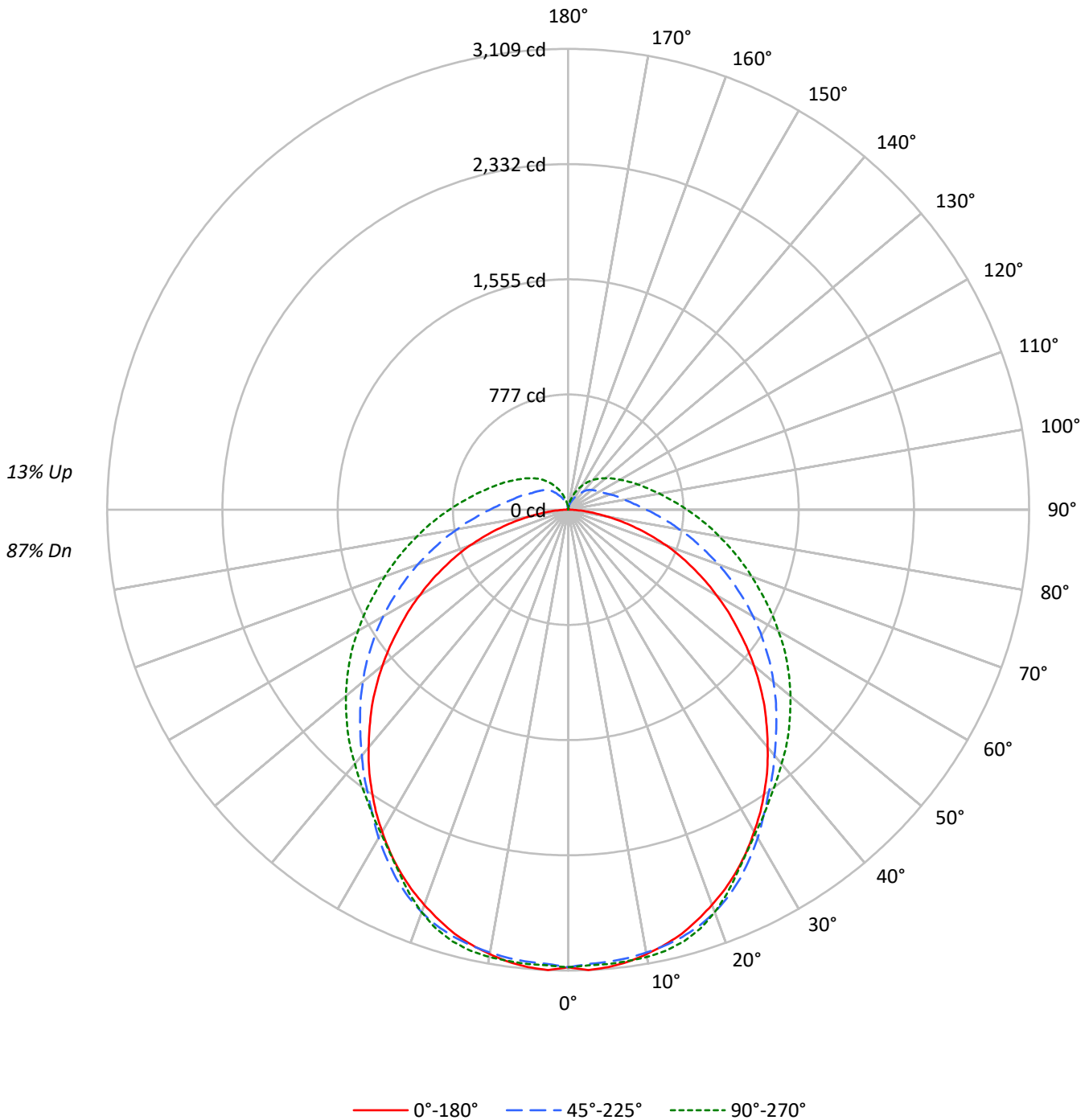
Lumens per Lamp: N/A
Luminaire Lumens: 11142.0 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 75.5
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: P566008

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566008

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L840-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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33223	33223	33223
5°	33351	31696	31416
10°	33039	30467	29966
15°	32642	29304	28504
20°	32014	28001	26641
25°	31338	26425	24456
30°	30446	24658	22631
35°	29496	22861	21271
40°	28416	21416	20169
45°	27355	20136	19219
50°	26097	18956	18262
55°	24625	17773	17324
60°	23211	16592	16343
65°	21641	15402	15445
70°	19843	14286	14633
75°	17064	13197	13963
80°	13447	12257	13397
85°	9010	11586	13072



TEST NUMBER: P566008

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	2.6
10°-20°	843.0	7.6
20°-30°	1255.3	11.3
30°-40°	1481.2	13.3
40°-50°	1544.8	13.9
50°-60°	1451.7	13.0
60°-70°	1225.9	11.0
70°-80°	926.3	8.3
80°-90°	638.5	5.7
90°-100°	446.8	4.0
100°-110°	333.4	3.0
110°-120°	251.4	2.3
120°-130°	187.5	1.7
130°-140°	131.6	1.2
140°-150°	79.6	0.7
150°-160°	38.0	0.3
160°-170°	12.2	0.1
170°-180°	1.5	0.0
0°-30°	2391.6	21.5
0°-40°	3872.8	34.8
0°-60°	6869.3	61.7
0°-90°	9660.0	86.7
90°-120°	1031.6	9.3
90°-150°	1430.3	12.8
90°-180°	1482.0	13.3
0°-180°	11142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3086	3086	3086	3086	3086	
5°	3098	3092	3062	3085	3077	294
15°	2962	2975	2983	3020	3015	834
25°	2690	2745	2745	2720	2699	1238
35°	2310	2395	2350	2369	2374	1445
45°	1872	1964	1985	2066	2104	1442
55°	1390	1509	1624	1755	1802	1247
65°	926	1073	1254	1419	1473	919
75°	474	657	910	1101	1171	505
85°	108	338	631	839	912	121
90°	2	240	527	729	801	8
95°	2	187	446	638	705	2
105°	4	134	344	499	555	4
115°	4	115	266	397	448	4
125°	6	98	225	325	366	5
135°	6	76	187	264	297	4
145°	8	55	130	202	227	4
155°	8	36	79	128	149	4
165°	9	23	42	57	76	3
175°	9	9	11	11	6	1
180°	6	6	6	6	6	



TEST NUMBER: P566008

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3086.5	3086.5	3086.5	3086.5	3086.5
2.5°	3109.2	3101.7	3067.7	3086.5	3077.1
5°	3097.9	3092.2	3062.0	3084.7	3077.1
7.5°	3077.1	3075.2	3052.5	3079.0	3071.4
10°	3045.0	3050.7	3033.7	3069.5	3063.9
12.5°	3007.2	3018.5	3012.9	3052.5	3046.9
15°	2961.9	2975.1	2982.6	3020.4	3014.8
17.5°	2901.4	2926.0	2943.0	2973.2	2963.8
20°	2837.2	2871.2	2890.1	2905.2	2890.1
22.5°	2767.3	2812.6	2824.0	2816.4	2801.3
25°	2689.9	2744.6	2744.6	2720.1	2699.3
27.5°	2603.0	2671.0	2652.1	2623.7	2606.7
30°	2508.5	2589.7	2557.6	2525.5	2521.7
32.5°	2414.1	2499.1	2451.9	2444.3	2450.0
35°	2310.2	2395.2	2349.9	2368.7	2374.4
37.5°	2206.3	2291.3	2261.1	2289.4	2306.4
40°	2093.0	2183.6	2164.7	2215.7	2238.4
42.5°	1981.5	2076.0	2074.1	2140.2	2174.2
45°	1871.9	1964.5	1985.3	2066.5	2104.3
47.5°	1752.9	1847.4	1898.4	1992.8	2030.6
50°	1635.8	1737.8	1807.7	1913.5	1957.0
52.5°	1514.9	1622.6	1718.9	1836.1	1881.4
55°	1390.3	1509.3	1624.5	1754.8	1802.1
57.5°	1278.8	1399.7	1535.7	1669.8	1724.6
60°	1156.0	1290.2	1439.4	1581.0	1635.8
62.5°	1044.6	1182.5	1348.7	1497.9	1556.5
65°	925.6	1072.9	1254.3	1418.6	1473.4
67.5°	816.0	967.1	1165.5	1331.7	1392.2
70°	702.7	863.2	1078.6	1254.3	1316.6
72.5°	585.6	755.6	991.7	1178.7	1242.9
75°	474.1	657.4	910.5	1101.3	1171.1
77.5°	370.2	562.9	836.8	1033.3	1101.3
80°	268.2	477.9	759.4	963.4	1033.3
82.5°	177.6	404.2	697.0	901.0	974.7
85°	107.7	338.1	630.9	838.7	912.4
87.5°	49.1	283.3	578.0	783.9	855.7
90°	1.9	239.9	527.0	729.1	800.9
92.5°	1.9	209.7	485.5	681.9	751.8
95°	1.9	187.0	445.8	638.5	704.6
97.5°	1.9	171.9	415.6	596.9	661.1
100°	1.9	156.8	385.3	559.1	625.2
102.5°	3.8	143.6	362.7	525.1	587.5
105°	3.8	134.1	343.8	498.7	555.4
107.5°	3.8	128.4	323.0	472.2	525.1
110°	3.8	122.8	300.3	445.8	498.7



TEST NUMBER: P566008

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	119.0	283.3	423.1	474.1
115°	3.8	115.2	266.3	396.7	447.7
117.5°	3.8	113.3	256.9	375.9	425.0
120°	5.7	107.7	245.6	357.0	404.2
122.5°	5.7	102.0	234.2	341.9	383.5
125°	5.7	98.2	224.8	324.9	366.5
127.5°	5.7	92.6	215.3	309.8	347.6
130°	5.7	86.9	207.8	294.7	330.6
132.5°	5.7	81.2	198.3	279.6	313.6
135°	5.7	75.6	187.0	264.5	296.6
137.5°	5.7	69.9	175.7	249.3	279.6
140°	5.7	64.2	160.6	234.2	262.6
142.5°	5.7	58.6	145.4	219.1	243.7
145°	7.6	54.8	130.3	202.1	226.7
147.5°	7.6	49.1	115.2	185.1	205.9
150°	7.6	45.3	103.9	168.1	187.0
152.5°	7.6	39.7	92.6	149.2	168.1
155°	7.6	35.9	79.3	128.4	149.2
157.5°	7.6	32.1	68.0	107.7	130.3
160°	7.6	30.2	58.6	88.8	111.4
162.5°	9.4	26.4	49.1	71.8	92.6
165°	9.4	22.7	41.6	56.7	75.6
167.5°	9.4	18.9	34.0	43.4	58.6
170°	9.4	15.1	26.4	30.2	45.3
172.5°	9.4	11.3	18.9	20.8	22.7
175°	9.4	9.4	11.3	11.3	5.7
177.5°	9.4	9.4	7.6	5.7	1.9
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)