

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: P566007

Luminaire Tested: **4SNX-104HL-LN-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566007
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-L835-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

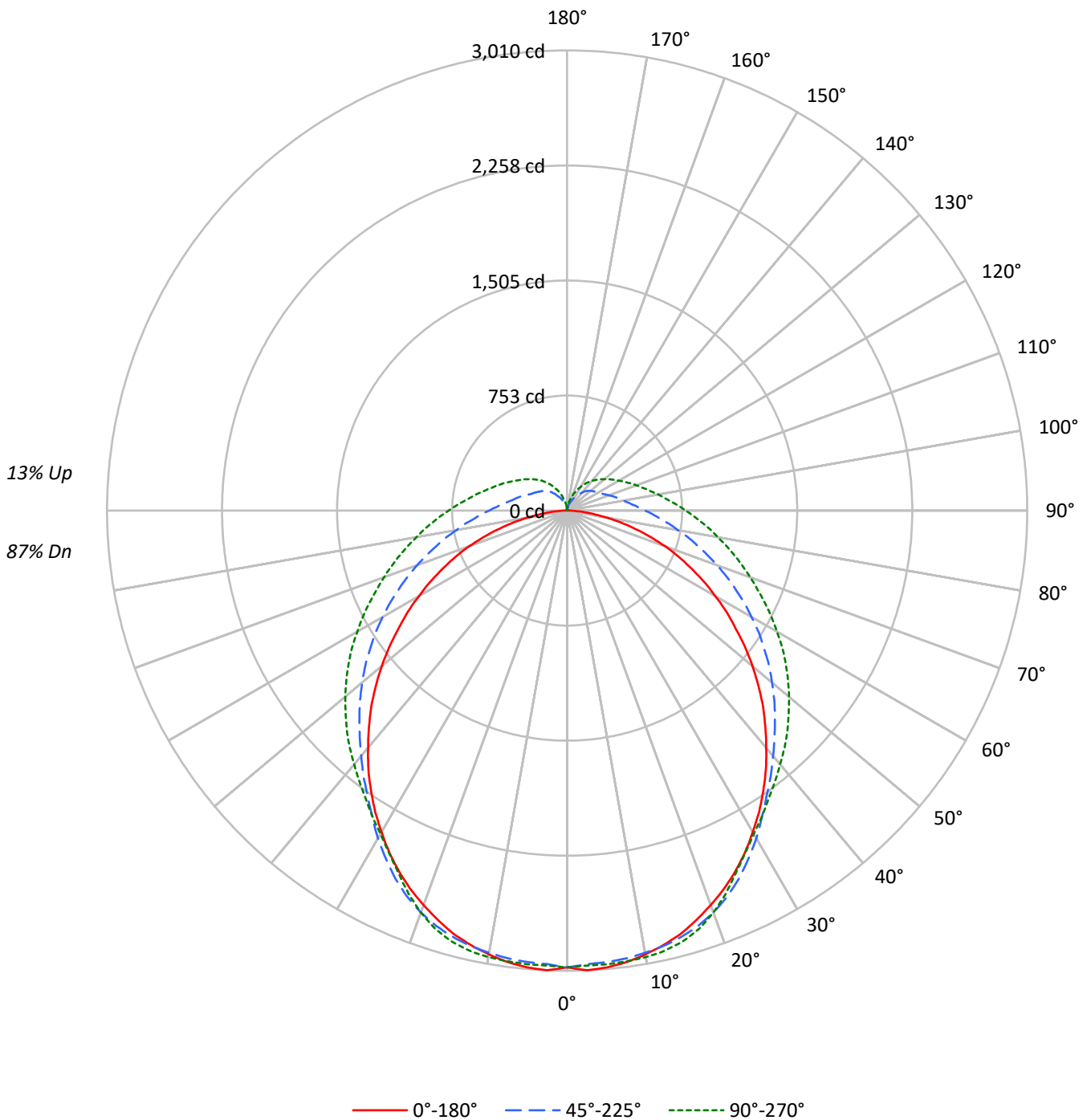
Lumens per Lamp: N/A
Luminaire Lumens: 10786.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 75.5
Input Voltage (V): NR
Input Current (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: P566007

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566007

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L835-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°	32162	32162	32162
5°	32286	30684	30412
10°	31983	29493	29008
15°	31598	28368	27593
20°	30990	27105	25789
25°	30336	25580	23675
30°	29474	23870	21909
35°	28554	22130	20591
40°	27508	20732	19525
45°	26481	19493	18606
50°	25264	18351	17678
55°	23837	17205	16770
60°	22470	16062	15822
65°	20949	14910	14951
70°	19208	13829	14165
75°	16520	12775	13517
80°	13021	11864	12968
85°	8717	11217	12654



TEST NUMBER: P566007

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	2.6
10°-20°	816.1	7.6
20°-30°	1215.2	11.3
30°-40°	1433.9	13.3
40°-50°	1495.4	13.9
50°-60°	1405.3	13.0
60°-70°	1186.8	11.0
70°-80°	896.7	8.3
80°-90°	618.1	5.7
90°-100°	432.5	4.0
100°-110°	322.8	3.0
110°-120°	243.3	2.3
120°-130°	181.5	1.7
130°-140°	127.4	1.2
140°-150°	77.0	0.7
150°-160°	36.8	0.3
160°-170°	11.8	0.1
170°-180°	1.4	0.0
0°-30°	2315.2	21.5
0°-40°	3749.1	34.8
0°-60°	6649.8	61.7
0°-90°	9351.4	86.7
90°-120°	998.7	9.3
90°-150°	1384.5	12.8
90°-180°	1435.0	13.3
0°-180°	10786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2988	2988	2988	2988	2988	
5°	2999	2993	2964	2986	2979	285
15°	2867	2880	2887	2924	2918	807
25°	2604	2657	2657	2633	2613	1198
35°	2236	2319	2275	2293	2298	1399
45°	1812	1902	1922	2000	2037	1396
55°	1346	1461	1573	1699	1744	1208
65°	896	1039	1214	1373	1426	890
75°	459	636	881	1066	1134	489
85°	104	327	611	812	883	117
90°	2	232	510	706	775	7
95°	2	181	432	618	682	1
105°	4	130	333	483	538	4
115°	4	112	258	384	433	4
125°	6	95	218	314	355	5
135°	6	73	181	256	287	4
145°	7	53	126	196	219	4
155°	7	35	77	124	144	3
165°	9	22	40	55	73	3
175°	9	9	11	11	6	1
180°	6	6	6	6	6	



TEST NUMBER: P566007

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2987.9	2987.9	2987.9	2987.9	2987.9
2.5°	3009.9	3002.6	2969.6	2987.9	2978.8
5°	2998.9	2993.4	2964.2	2986.1	2978.8
7.5°	2978.8	2977.0	2955.0	2980.6	2973.3
10°	2947.7	2953.2	2936.7	2971.5	2966.0
12.5°	2911.1	2922.1	2916.6	2955.0	2949.5
15°	2867.2	2880.0	2887.3	2923.9	2918.4
17.5°	2808.7	2832.5	2848.9	2878.2	2869.1
20°	2746.5	2779.5	2797.7	2812.4	2797.7
22.5°	2678.9	2722.8	2733.7	2726.4	2711.8
25°	2603.9	2656.9	2656.9	2633.2	2613.1
27.5°	2519.8	2585.6	2567.3	2539.9	2523.5
30°	2428.4	2507.0	2475.9	2444.8	2441.2
32.5°	2336.9	2419.2	2373.5	2366.2	2371.7
35°	2236.4	2318.7	2274.8	2293.1	2298.5
37.5°	2135.8	2218.1	2188.8	2216.3	2232.7
40°	2026.1	2113.9	2095.6	2144.9	2166.9
42.5°	1918.2	2009.6	2007.8	2071.8	2104.7
45°	1812.1	1901.7	1921.9	2000.5	2037.1
47.5°	1696.9	1788.4	1837.7	1929.2	1965.7
50°	1583.6	1682.3	1750.0	1852.4	1894.4
52.5°	1466.5	1570.8	1664.0	1777.4	1821.3
55°	1345.8	1461.0	1572.6	1698.8	1744.5
57.5°	1238.0	1355.0	1486.6	1616.5	1669.5
60°	1119.1	1248.9	1393.4	1530.5	1583.6
62.5°	1011.2	1144.7	1305.6	1450.1	1506.8
65°	896.0	1038.6	1214.2	1373.3	1426.3
67.5°	790.0	936.2	1128.2	1289.2	1347.7
70°	680.2	835.7	1044.1	1214.2	1274.5
72.5°	566.9	731.4	960.0	1141.0	1203.2
75°	459.0	636.4	881.4	1066.1	1133.7
77.5°	358.4	544.9	810.1	1000.2	1066.1
80°	259.7	462.6	735.1	932.6	1000.2
82.5°	171.9	391.3	674.8	872.2	943.6
85°	104.2	327.3	610.8	811.9	883.2
87.5°	47.5	274.3	559.5	758.9	828.4
90°	1.8	232.2	510.2	705.8	775.3
92.5°	1.8	203.0	469.9	660.1	727.8
95°	1.8	181.0	431.5	618.1	682.1
97.5°	1.8	166.4	402.3	577.8	640.0
100°	1.8	151.8	373.0	541.3	605.3
102.5°	3.7	139.0	351.1	508.3	568.7
105°	3.7	129.8	332.8	482.7	537.6
107.5°	3.7	124.3	312.7	457.1	508.3
110°	3.7	118.9	290.7	431.5	482.7



TEST NUMBER: P566007

CATALOG NUMBER: 4SNX-104HL-LN-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	115.2	274.3	409.6	459.0
115°	3.7	111.5	257.8	384.0	433.4
117.5°	3.7	109.7	248.7	363.9	411.4
120°	5.5	104.2	237.7	345.6	391.3
122.5°	5.5	98.7	226.7	331.0	371.2
125°	5.5	95.1	217.6	314.5	354.7
127.5°	5.5	89.6	208.5	299.9	336.5
130°	5.5	84.1	201.1	285.3	320.0
132.5°	5.5	78.6	192.0	270.6	303.5
135°	5.5	73.1	181.0	256.0	287.1
137.5°	5.5	67.7	170.1	241.4	270.6
140°	5.5	62.2	155.4	226.7	254.2
142.5°	5.5	56.7	140.8	212.1	235.9
145°	7.3	53.0	126.2	195.7	219.4
147.5°	7.3	47.5	111.5	179.2	199.3
150°	7.3	43.9	100.6	162.7	181.0
152.5°	7.3	38.4	89.6	144.5	162.7
155°	7.3	34.7	76.8	124.3	144.5
157.5°	7.3	31.1	65.8	104.2	126.2
160°	7.3	29.3	56.7	85.9	107.9
162.5°	9.1	25.6	47.5	69.5	89.6
165°	9.1	21.9	40.2	54.9	73.1
167.5°	9.1	18.3	32.9	42.1	56.7
170°	9.1	14.6	25.6	29.3	43.9
172.5°	9.1	11.0	18.3	20.1	21.9
175°	9.1	9.1	11.0	11.0	5.5
177.5°	9.1	9.1	7.3	5.5	1.8
180°	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)