

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: P566015

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566015
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-104HL-LW-UNV-L835-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

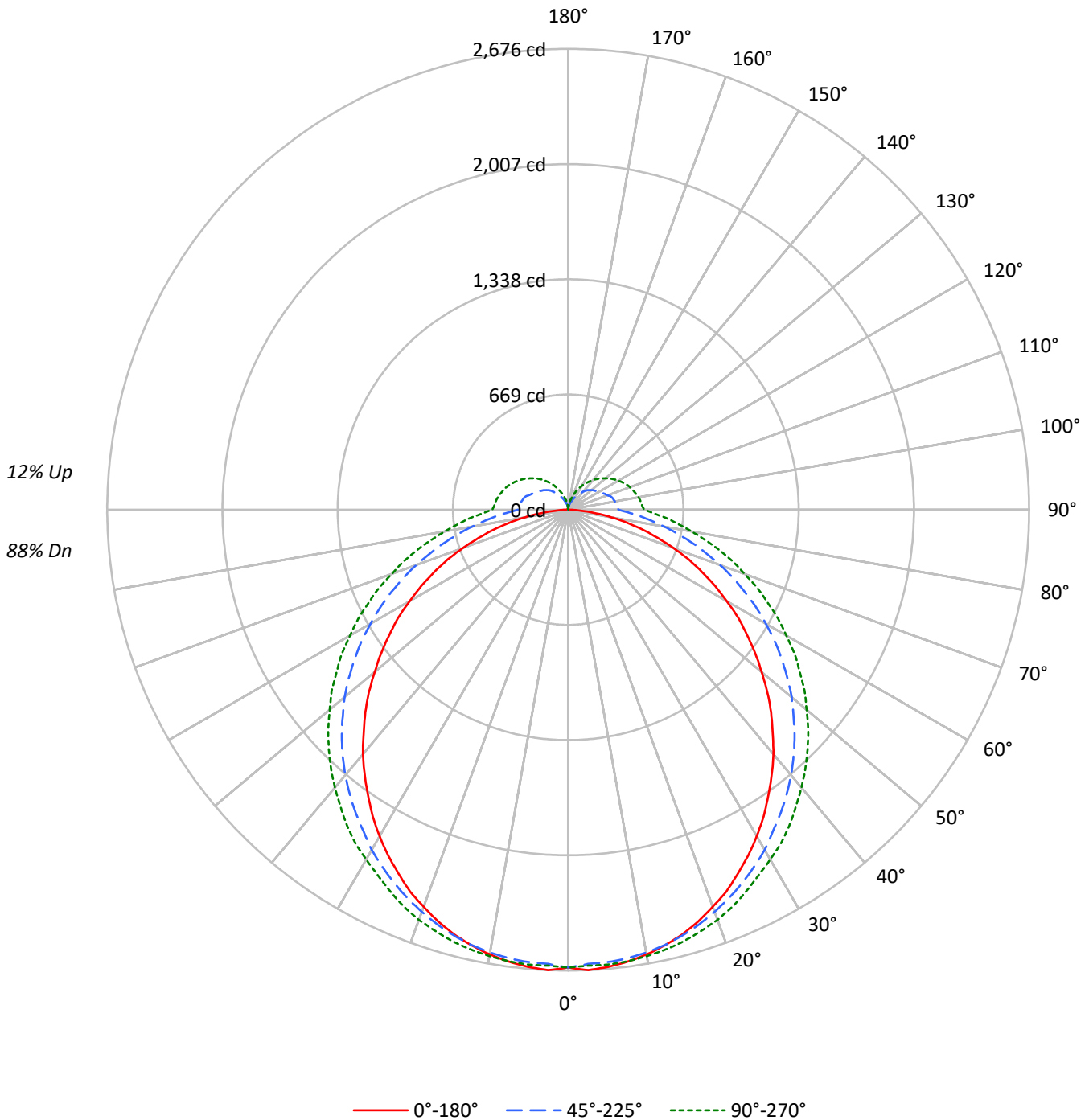
Lumens per Lamp: N/A
Luminaire Lumens: 9571.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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: P566015

CATALOG NUMBER: 4SNX-104HL-LW-UNV-L835-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°	28616	28616	28616
5°	28691	27298	27075
10°	28454	26221	25744
15°	28142	25153	24530
20°	27685	24073	23357
25°	27153	23023	22156
30°	26577	21996	21049
35°	25865	20920	20057
40°	25167	19912	18977
45°	24335	18851	17949
50°	23377	17754	16855
55°	22440	16551	15772
60°	21358	15284	14607
65°	20042	13907	13401
70°	18375	12417	12095
75°	16045	10785	10845
80°	12820	9153	9414
85°	8224	7585	8218



TEST NUMBER: P566015

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	2.6
10°-20°	726.0	7.6
20°-30°	1104.4	11.5
30°-40°	1342.9	14.0
40°-50°	1420.7	14.8
50°-60°	1331.7	13.9
60°-70°	1095.6	11.4
70°-80°	758.1	7.9
80°-90°	421.5	4.4
90°-100°	277.7	2.9
100°-110°	249.0	2.6
110°-120°	206.1	2.2
120°-130°	159.4	1.7
130°-140°	112.8	1.2
140°-150°	68.0	0.7
150°-160°	32.7	0.3
160°-170°	10.7	0.1
170°-180°	1.3	0.0
0°-30°	2082.8	21.8
0°-40°	3425.7	35.8
0°-60°	6178.1	64.6
0°-90°	8453.3	88.3
90°-120°	732.8	7.7
90°-150°	1073.0	11.2
90°-180°	1118.0	11.7
0°-180°	9571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2658	2658	2658	2658	2658	
5°	2665	2660	2637	2658	2652	253
15°	2554	2562	2560	2594	2594	720
25°	2331	2363	2391	2444	2445	1074
35°	2026	2080	2150	2219	2239	1268
45°	1665	1752	1859	1942	1965	1283
55°	1267	1380	1513	1608	1641	1134
65°	857	980	1132	1244	1278	850
75°	446	575	744	862	910	473
85°	98	244	413	528	574	113
90°	2	138	292	402	441	6
95°	2	131	284	388	426	1
105°	2	113	266	366	398	2
115°	3	98	224	324	361	3
125°	3	84	192	277	311	3
135°	3	66	161	228	256	3
145°	3	48	112	172	193	2
155°	5	33	69	110	128	2
165°	5	21	38	51	66	1
175°	5	8	12	12	7	0
180°	3	3	3	3	3	



TEST NUMBER: P566015

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2658.5	2658.5	2658.5	2658.5	2658.5
2.5°	2676.5	2668.3	2640.4	2658.5	2650.3
5°	2665.0	2660.1	2637.1	2658.5	2651.9
7.5°	2647.0	2645.3	2627.3	2651.9	2645.3
10°	2622.4	2625.7	2610.9	2637.1	2632.2
12.5°	2591.3	2596.2	2589.6	2619.1	2615.8
15°	2553.6	2561.8	2560.1	2594.5	2594.5
17.5°	2507.7	2519.1	2525.7	2565.0	2565.0
20°	2453.6	2471.6	2484.7	2527.3	2533.9
22.5°	2399.5	2420.8	2440.5	2484.7	2494.6
25°	2330.7	2363.4	2391.3	2443.7	2445.4
27.5°	2263.5	2299.5	2337.2	2388.0	2392.9
30°	2189.7	2235.6	2281.5	2330.7	2345.4
32.5°	2111.0	2161.8	2212.6	2278.2	2297.9
35°	2025.8	2079.9	2150.4	2219.2	2238.9
37.5°	1940.6	2001.2	2083.2	2153.6	2171.7
40°	1853.7	1920.9	2012.7	2084.8	2106.1
42.5°	1757.0	1839.0	1937.3	2014.3	2038.9
45°	1665.2	1752.1	1858.6	1942.2	1965.2
47.5°	1568.5	1660.3	1775.0	1863.5	1889.8
50°	1465.3	1570.2	1693.1	1781.6	1806.2
52.5°	1368.6	1475.1	1604.6	1696.4	1730.8
55°	1266.9	1380.0	1512.8	1607.9	1640.6
57.5°	1171.9	1280.1	1422.6	1517.7	1558.7
60°	1063.7	1183.4	1325.9	1429.2	1462.0
62.5°	962.1	1083.4	1230.9	1337.4	1375.1
65°	857.2	980.1	1132.5	1244.0	1278.4
67.5°	758.9	880.1	1035.8	1145.7	1189.9
70°	650.7	778.5	937.5	1050.6	1088.3
72.5°	544.1	676.9	839.2	960.5	1003.1
75°	445.8	575.3	744.1	862.1	909.6
77.5°	350.7	481.9	652.3	773.6	814.6
80°	255.7	393.4	567.1	686.7	726.1
82.5°	168.8	313.0	485.1	604.8	647.4
85°	98.3	244.2	413.0	527.8	573.6
87.5°	42.6	185.2	345.8	458.9	496.6
90°	1.6	137.7	291.7	401.6	440.9
92.5°	1.6	134.4	285.2	393.4	431.1
95°	1.6	131.1	283.5	388.4	426.1
97.5°	1.6	129.5	280.3	385.2	421.2
100°	1.6	124.6	275.4	378.6	414.7
102.5°	1.6	118.0	270.4	372.1	406.5
105°	1.6	113.1	265.5	365.5	398.3
107.5°	1.6	108.2	257.3	357.3	390.1
110°	1.6	103.3	244.2	349.1	381.9



TEST NUMBER: P566015

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	101.6	234.4	337.6	372.1
115°	3.3	98.3	224.5	324.5	360.6
117.5°	3.3	96.7	216.3	311.4	349.1
120°	3.3	91.8	208.2	299.9	336.0
122.5°	3.3	86.9	200.0	288.5	324.5
125°	3.3	83.6	191.8	277.0	311.4
127.5°	3.3	78.7	185.2	265.5	296.7
130°	3.3	75.4	177.0	252.4	283.5
132.5°	3.3	70.5	168.8	239.3	268.8
135°	3.3	65.6	160.6	227.8	255.7
137.5°	3.3	59.0	150.8	214.7	240.9
140°	3.3	54.1	137.7	201.6	226.2
142.5°	3.3	50.8	124.6	186.8	209.8
145°	3.3	47.5	111.5	172.1	193.4
147.5°	3.3	44.3	100.0	157.3	177.0
150°	3.3	39.3	88.5	144.2	160.6
152.5°	4.9	36.1	78.7	127.8	144.2
155°	4.9	32.8	68.8	109.8	127.8
157.5°	4.9	29.5	59.0	91.8	111.5
160°	4.9	26.2	50.8	75.4	95.1
162.5°	4.9	24.6	44.3	62.3	80.3
165°	4.9	21.3	37.7	50.8	65.6
167.5°	4.9	16.4	31.1	39.3	54.1
170°	4.9	13.1	24.6	27.9	41.0
172.5°	4.9	9.8	18.0	19.7	21.3
175°	4.9	8.2	11.5	11.5	6.6
177.5°	4.9	6.6	6.6	6.6	3.3
180°	3.3	3.3	3.3	3.3	3.3

(END OF REPORT)