

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: P565943

Luminaire Tested: **4SNX-100HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565943
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-100HL-FDL-UNV-L835-CD
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

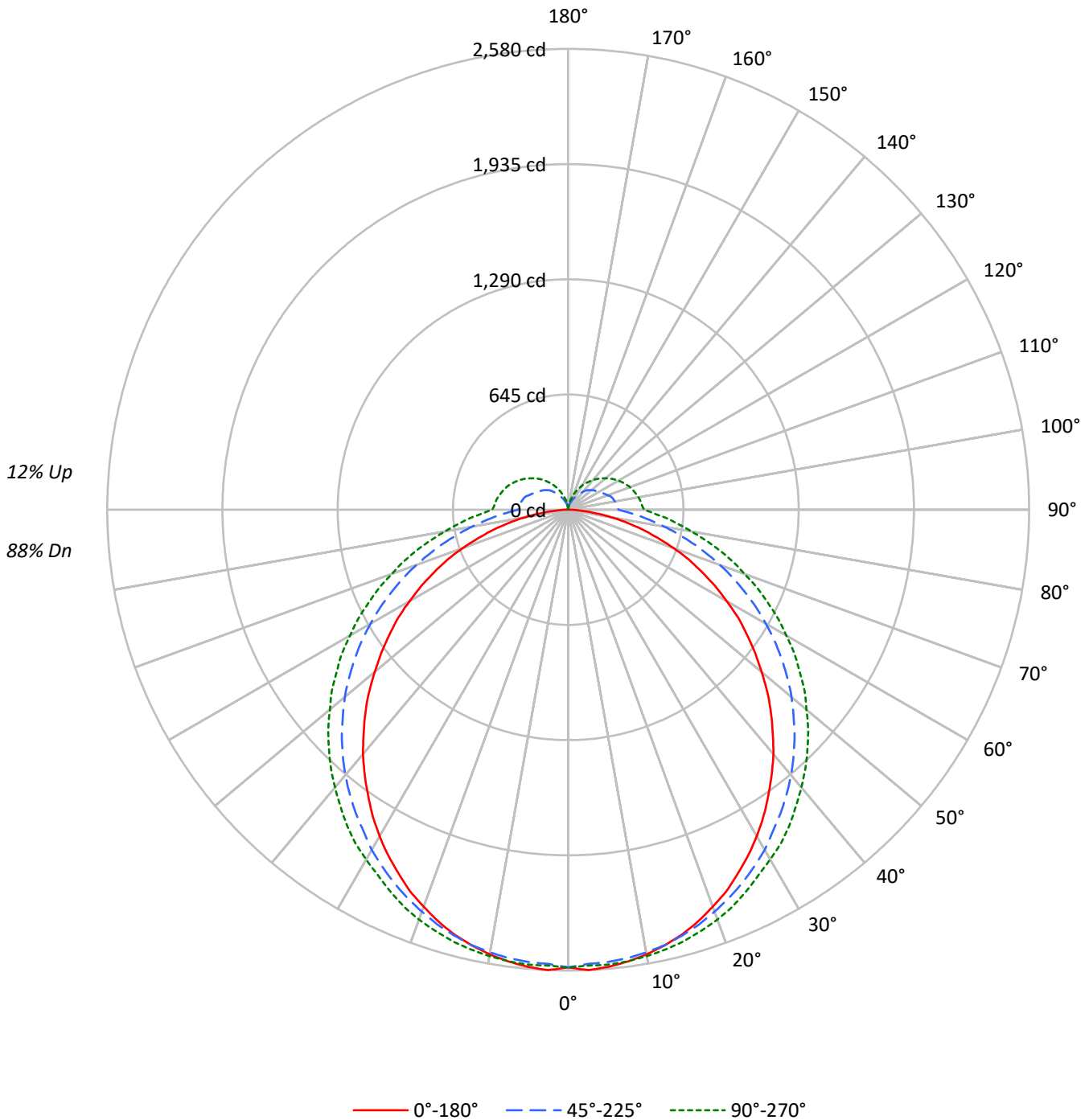
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9226.0 lumens
Efficiency: N/A
Efficacy: 127.3 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): 72.5
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: P565943
CATALOG NUMBER: 4SNX-100HL-FDL-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°	27584	27584	27584
5°	27732	27170	27224
10°	27579	26914	26941
15°	27354	26608	26679
20°	26989	26240	26379
25°	26553	25867	25977
30°	26079	25491	25634
35°	25475	25043	25396
40°	24891	24669	25027
45°	24183	24238	24716
50°	23362	23782	24324
55°	22583	23215	23973
60°	21683	22613	23543
65°	20586	21919	23122
70°	19190	21161	22647
75°	17202	20331	22484
80°	14427	19816	22303
85°	10462	20223	23510



TEST NUMBER: P565943

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.3	2.6
10°-20°	699.8	7.6
20°-30°	1064.6	11.5
30°-40°	1294.5	14.0
40°-50°	1369.5	14.8
50°-60°	1283.7	13.9
60°-70°	1056.1	11.4
70°-80°	730.7	7.9
80°-90°	406.3	4.4
90°-100°	267.7	2.9
100°-110°	240.0	2.6
110°-120°	198.7	2.2
120°-130°	153.6	1.7
130°-140°	108.7	1.2
140°-150°	65.6	0.7
150°-160°	31.5	0.3
160°-170°	10.3	0.1
170°-180°	1.3	0.0
0°-30°	2007.7	21.8
0°-40°	3302.2	35.8
0°-60°	5955.5	64.6
0°-90°	8148.6	88.3
90°-120°	706.4	7.7
90°-150°	1034.3	11.2
90°-180°	1077.0	11.7
0°-180°	9226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2563	2563	2563	2563	2563	
5°	2569	2564	2542	2563	2556	244
15°	2462	2469	2468	2501	2501	694
25°	2247	2278	2305	2356	2357	1036
35°	1953	2005	2073	2139	2158	1222
45°	1605	1689	1792	1872	1894	1237
55°	1221	1330	1458	1550	1582	1093
65°	826	945	1092	1199	1232	819
75°	430	555	717	831	877	456
85°	95	235	398	509	553	109
90°	2	133	281	387	425	6
95°	2	126	273	374	411	1
105°	2	109	256	352	384	2
115°	3	95	216	313	348	3
125°	3	81	185	267	300	3
135°	3	63	155	220	246	2
145°	3	46	107	166	186	2
155°	5	32	66	106	123	2
165°	5	20	36	49	63	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



TEST NUMBER: P565943

CATALOG NUMBER: 4SNX-100HL-FDL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2562.6	2562.6	2562.6	2562.6	2562.6
2.5°	2580.0	2572.1	2545.2	2562.6	2554.7
5°	2568.9	2564.2	2542.1	2562.6	2556.3
7.5°	2551.6	2550.0	2532.6	2556.3	2550.0
10°	2527.9	2531.0	2516.8	2542.1	2537.3
12.5°	2497.8	2502.6	2496.3	2524.7	2521.5
15°	2461.5	2469.4	2467.8	2501.0	2501.0
17.5°	2417.3	2428.3	2434.7	2472.6	2472.6
20°	2365.1	2382.5	2395.2	2436.2	2442.6
22.5°	2313.0	2333.5	2352.5	2395.2	2404.6
25°	2246.6	2278.2	2305.1	2355.7	2357.2
27.5°	2181.9	2216.6	2253.0	2301.9	2306.7
30°	2110.8	2155.0	2199.2	2246.6	2260.9
32.5°	2034.9	2083.9	2132.9	2196.1	2215.0
35°	1952.8	2004.9	2072.9	2139.2	2158.2
37.5°	1870.6	1929.1	2008.1	2076.0	2093.4
40°	1786.9	1851.7	1940.1	2009.7	2030.2
42.5°	1693.7	1772.7	1867.5	1941.7	1965.4
45°	1605.2	1688.9	1791.6	1872.2	1894.3
47.5°	1512.0	1600.5	1711.1	1796.4	1821.6
50°	1412.4	1513.6	1632.1	1717.4	1741.1
52.5°	1319.2	1421.9	1546.7	1635.2	1668.4
55°	1221.3	1330.3	1458.3	1549.9	1581.5
57.5°	1129.6	1233.9	1371.4	1463.0	1502.5
60°	1025.4	1140.7	1278.2	1377.7	1409.3
62.5°	927.4	1044.3	1186.5	1289.2	1325.6
65°	826.3	944.8	1091.7	1199.2	1232.3
67.5°	731.5	848.4	998.5	1104.4	1147.0
70°	627.2	750.5	903.7	1012.7	1049.1
72.5°	524.5	652.5	808.9	925.8	966.9
75°	429.7	554.6	717.3	831.0	876.9
77.5°	338.1	464.5	628.8	745.7	785.2
80°	246.5	379.2	546.7	662.0	699.9
82.5°	162.7	301.8	467.7	583.0	624.1
85°	94.8	235.4	398.1	508.7	553.0
87.5°	41.1	178.5	333.4	442.4	478.7
90°	1.6	132.7	281.2	387.1	425.0
92.5°	1.6	129.6	274.9	379.2	415.5
95°	1.6	126.4	273.3	374.4	410.8
97.5°	1.6	124.8	270.2	371.3	406.0
100°	1.6	120.1	265.4	365.0	399.7
102.5°	1.6	113.8	260.7	358.6	391.8
105°	1.6	109.0	255.9	352.3	383.9
107.5°	1.6	104.3	248.0	344.4	376.0
110°	1.6	99.5	235.4	336.5	368.1



TEST NUMBER: P565943

CATALOG NUMBER: 4SNX-100HL-FDL-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	98.0	225.9	325.5	358.6
115°	3.2	94.8	216.4	312.8	347.6
117.5°	3.2	93.2	208.5	300.2	336.5
120°	3.2	88.5	200.6	289.1	323.9
122.5°	3.2	83.7	192.7	278.1	312.8
125°	3.2	80.6	184.9	267.0	300.2
127.5°	3.2	75.8	178.5	255.9	286.0
130°	3.2	72.7	170.6	243.3	273.3
132.5°	3.2	67.9	162.7	230.7	259.1
135°	3.2	63.2	154.8	219.6	246.5
137.5°	3.2	56.9	145.4	207.0	232.2
140°	3.2	52.1	132.7	194.3	218.0
142.5°	3.2	49.0	120.1	180.1	202.2
145°	3.2	45.8	107.4	165.9	186.4
147.5°	3.2	42.7	96.4	151.7	170.6
150°	3.2	37.9	85.3	139.0	154.8
152.5°	4.7	34.8	75.8	123.2	139.0
155°	4.7	31.6	66.4	105.9	123.2
157.5°	4.7	28.4	56.9	88.5	107.4
160°	4.7	25.3	49.0	72.7	91.6
162.5°	4.7	23.7	42.7	60.0	77.4
165°	4.7	20.5	36.3	49.0	63.2
167.5°	4.7	15.8	30.0	37.9	52.1
170°	4.7	12.6	23.7	26.9	39.5
172.5°	4.7	9.5	17.4	19.0	20.5
175°	4.7	7.9	11.1	11.1	6.3
177.5°	4.7	6.3	6.3	6.3	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)