

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: P565944

Luminaire Tested: **4SNX-100HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565944
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-L840-CD
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

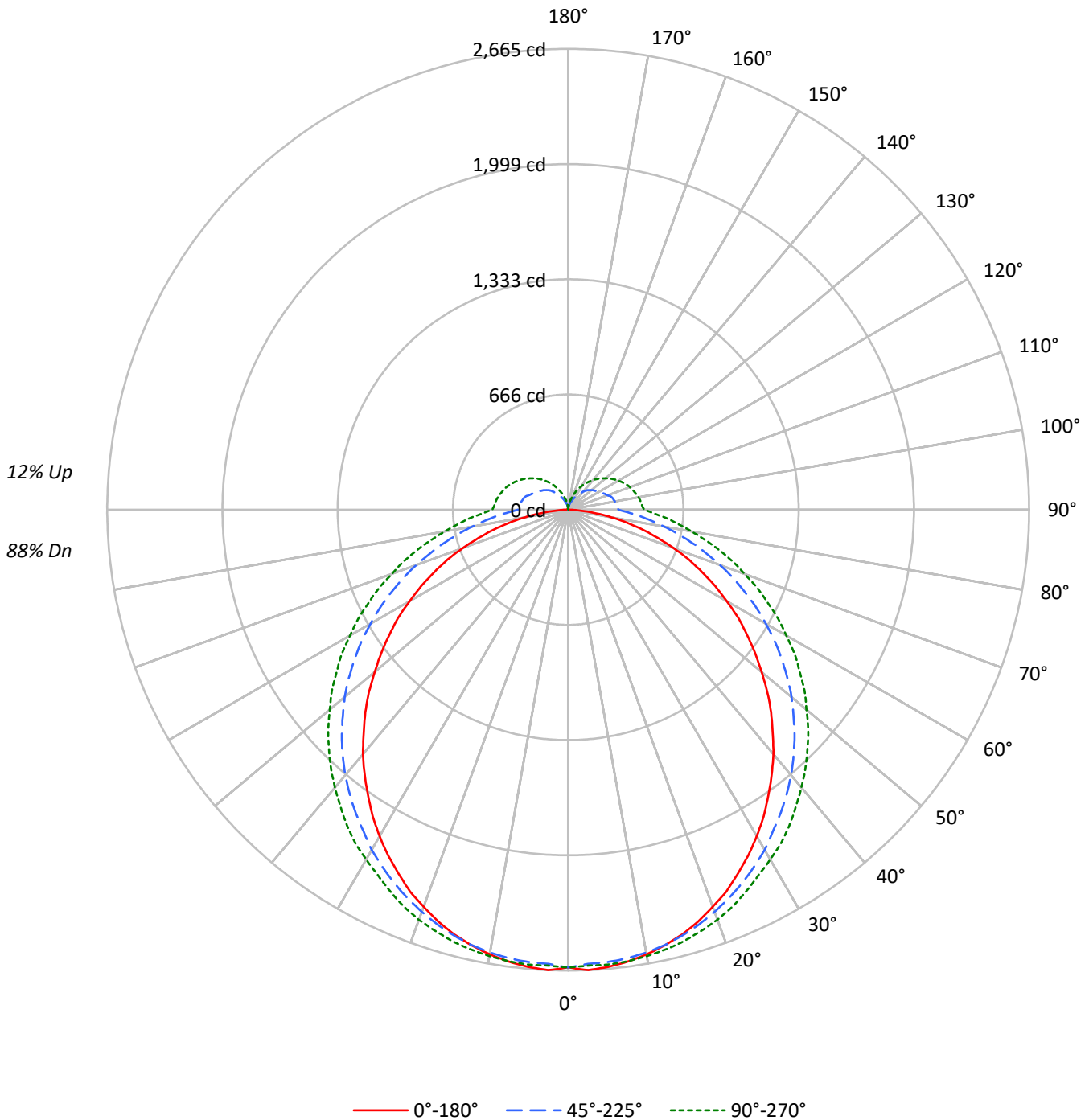
Lumens per Lamp: N/A
Luminaire Lumens: 9531.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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

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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°	28495	28495	28495
5°	28649	28068	28124
10°	28490	27804	27832
15°	28258	27487	27561
20°	27882	27107	27251
25°	27431	26722	26836
30°	26940	26334	26481
35°	26316	25870	26235
40°	25714	25485	25854
45°	24983	25040	25533
50°	24134	24567	25128
55°	23330	23983	24766
60°	22400	23359	24321
65°	21266	22644	23887
70°	19826	21861	23393
75°	17770	21002	23225
80°	14902	20468	23039
85°	10804	20893	24288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.3	2.6
10°-20°	723.0	7.6
20°-30°	1099.8	11.5
30°-40°	1337.3	14.0
40°-50°	1414.8	14.8
50°-60°	1326.2	13.9
60°-70°	1091.0	11.4
70°-80°	754.9	7.9
80°-90°	419.8	4.4
90°-100°	276.5	2.9
100°-110°	248.0	2.6
110°-120°	205.3	2.2
120°-130°	158.7	1.7
130°-140°	112.3	1.2
140°-150°	67.8	0.7
150°-160°	32.5	0.3
160°-170°	10.7	0.1
170°-180°	1.3	0.0
0°-30°	2074.1	21.8
0°-40°	3411.3	35.8
0°-60°	6152.3	64.6
0°-90°	8418.0	88.3
90°-120°	729.8	7.7
90°-150°	1068.5	11.2
90°-180°	1113.0	11.7
0°-180°	9531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2647	2647	2647	2647	2647	
5°	2654	2649	2626	2647	2641	252
15°	2543	2551	2549	2584	2584	717
25°	2321	2354	2381	2434	2435	1070
35°	2017	2071	2141	2210	2230	1263
45°	1658	1745	1851	1934	1957	1278
55°	1262	1374	1506	1601	1634	1129
65°	854	976	1128	1239	1273	846
75°	444	573	741	858	906	471
85°	98	243	411	526	571	113
90°	2	137	290	400	439	6
95°	2	131	282	387	424	1
105°	2	113	264	364	397	2
115°	3	98	224	323	359	3
125°	3	83	191	276	310	3
135°	3	65	160	227	255	3
145°	3	47	111	171	193	2
155°	5	33	69	109	127	2
165°	5	21	38	51	65	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2647.3	2647.3	2647.3	2647.3	2647.3
2.5°	2665.3	2657.1	2629.4	2647.3	2639.2
5°	2653.9	2649.0	2626.1	2647.3	2640.8
7.5°	2635.9	2634.3	2616.3	2640.8	2634.3
10°	2611.4	2614.7	2600.0	2626.1	2621.2
12.5°	2580.4	2585.3	2578.8	2608.2	2604.9
15°	2542.9	2551.0	2549.4	2583.7	2583.7
17.5°	2497.2	2508.6	2515.1	2554.3	2554.3
20°	2443.3	2461.3	2474.3	2516.8	2523.3
22.5°	2389.5	2410.7	2430.3	2474.3	2484.1
25°	2320.9	2353.6	2381.3	2433.5	2435.2
27.5°	2254.0	2289.9	2327.4	2378.0	2382.9
30°	2180.5	2226.2	2271.9	2320.9	2335.6
32.5°	2102.2	2152.8	2203.4	2268.7	2288.3
35°	2017.3	2071.2	2141.4	2209.9	2229.5
37.5°	1932.5	1992.9	2074.5	2144.6	2162.6
40°	1846.0	1912.9	2004.3	2076.1	2097.3
42.5°	1749.7	1831.3	1929.2	2005.9	2030.4
45°	1658.3	1744.8	1850.9	1934.1	1956.9
47.5°	1562.0	1653.4	1767.6	1855.8	1881.9
50°	1459.1	1563.6	1686.0	1774.1	1798.6
52.5°	1362.8	1468.9	1597.9	1689.3	1723.5
55°	1261.7	1374.3	1506.5	1601.1	1633.8
57.5°	1167.0	1274.7	1416.7	1511.4	1552.2
60°	1059.3	1178.4	1320.4	1423.2	1455.9
62.5°	958.1	1078.8	1225.7	1331.8	1369.4
65°	853.6	976.0	1127.8	1238.8	1273.1
67.5°	755.7	876.5	1031.5	1140.9	1184.9
70°	648.0	775.3	933.6	1046.2	1083.7
72.5°	541.9	674.1	835.7	956.4	998.9
75°	443.9	572.9	741.0	858.5	905.8
77.5°	349.3	479.9	649.6	770.4	811.2
80°	254.6	391.7	564.7	683.9	723.0
82.5°	168.1	311.7	483.1	602.3	644.7
85°	97.9	243.2	411.3	525.6	571.3
87.5°	42.4	184.4	344.4	457.0	494.5
90°	1.6	137.1	290.5	399.9	439.0
92.5°	1.6	133.8	284.0	391.7	429.3
95°	1.6	130.6	282.4	386.8	424.4
97.5°	1.6	128.9	279.1	383.6	419.5
100°	1.6	124.0	274.2	377.0	412.9
102.5°	1.6	117.5	269.3	370.5	404.8
105°	1.6	112.6	264.4	364.0	396.6
107.5°	1.6	107.7	256.2	355.8	388.5
110°	1.6	102.8	243.2	347.6	380.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	101.2	233.4	336.2	370.5
115°	3.3	97.9	223.6	323.2	359.1
117.5°	3.3	96.3	215.4	310.1	347.6
120°	3.3	91.4	207.3	298.7	334.6
122.5°	3.3	86.5	199.1	287.3	323.2
125°	3.3	83.2	191.0	275.8	310.1
127.5°	3.3	78.3	184.4	264.4	295.4
130°	3.3	75.1	176.3	251.4	282.4
132.5°	3.3	70.2	168.1	238.3	267.7
135°	3.3	65.3	160.0	226.9	254.6
137.5°	3.3	58.8	150.2	213.8	239.9
140°	3.3	53.9	137.1	200.8	225.2
142.5°	3.3	50.6	124.0	186.1	208.9
145°	3.3	47.3	111.0	171.4	192.6
147.5°	3.3	44.1	99.6	156.7	176.3
150°	3.3	39.2	88.1	143.6	160.0
152.5°	4.9	35.9	78.3	127.3	143.6
155°	4.9	32.6	68.6	109.4	127.3
157.5°	4.9	29.4	58.8	91.4	111.0
160°	4.9	26.1	50.6	75.1	94.7
162.5°	4.9	24.5	44.1	62.0	80.0
165°	4.9	21.2	37.5	50.6	65.3
167.5°	4.9	16.3	31.0	39.2	53.9
170°	4.9	13.1	24.5	27.7	40.8
172.5°	4.9	9.8	18.0	19.6	21.2
175°	4.9	8.2	11.4	11.4	6.5
177.5°	4.9	6.5	6.5	6.5	3.3
180°	3.3	3.3	3.3	3.3	3.3

(END OF REPORT)