

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: P565969

Luminaire Tested: **4SNX-100HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565969  
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-LW-UNV-L850-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

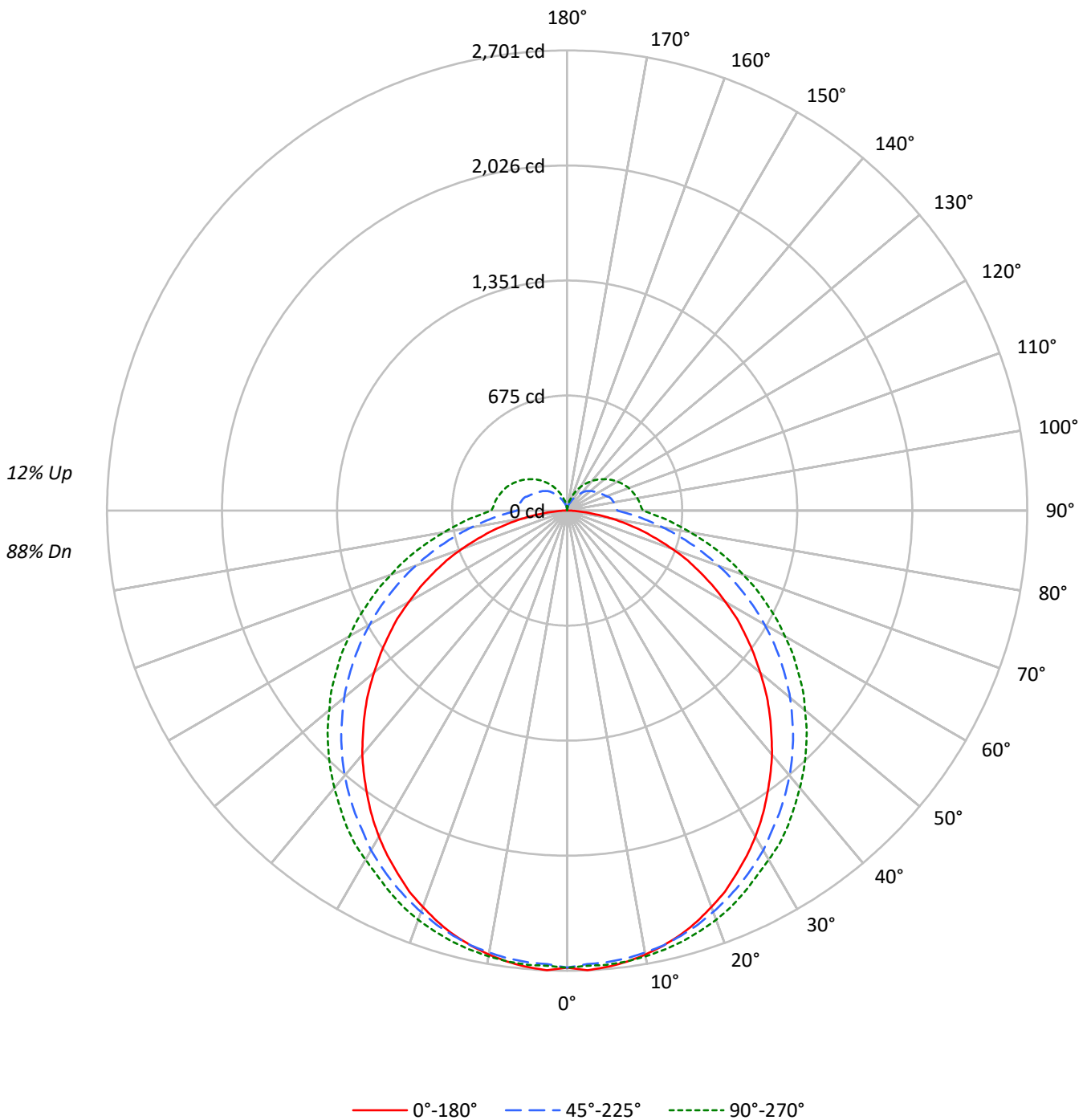
Lumens per Lamp: N/A  
Luminaire Lumens: 9658.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 72.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	28875	28875	28875
5°	28951	27546	27321
10°	28712	26460	25978
15°	28398	25382	24753
20°	27937	24292	23569
25°	27399	23232	22357
30°	26818	22196	21240
35°	26100	21110	20239
40°	25396	20093	19150
45°	24557	19022	18112
50°	23589	17916	17008
55°	22645	16700	15915
60°	21553	15424	14740
65°	20224	14033	13523
70°	18542	12530	12205
75°	16193	10884	10944
80°	12936	9235	9500
85°	8299	7654	8294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.7	2.6
10°-20°	732.6	7.6
20°-30°	1114.5	11.5
30°-40°	1355.1	14.0
40°-50°	1433.6	14.8
50°-60°	1343.9	13.9
60°-70°	1105.5	11.4
70°-80°	764.9	7.9
80°-90°	425.4	4.4
90°-100°	280.2	2.9
100°-110°	251.3	2.6
110°-120°	208.0	2.2
120°-130°	160.8	1.7
130°-140°	113.8	1.2
140°-150°	68.7	0.7
150°-160°	33.0	0.3
160°-170°	10.8	0.1
170°-180°	1.3	0.0
0°-30°	2101.7	21.8
0°-40°	3456.8	35.8
0°-60°	6234.3	64.6
0°-90°	8530.1	88.3
90°-120°	739.5	7.7
90°-150°	1082.8	11.2
90°-180°	1128.0	11.7
0°-180°	9658.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2683	2683	2683	2683	2683	
5°	2689	2684	2661	2683	2676	255
15°	2577	2585	2583	2618	2618	726
25°	2352	2385	2413	2466	2468	1084
35°	2044	2099	2170	2239	2259	1279
45°	1680	1768	1876	1960	1983	1295
55°	1278	1393	1526	1622	1656	1144
65°	865	989	1143	1255	1290	858
75°	450	580	751	870	918	477
85°	99	246	417	533	579	114
90°	2	139	294	405	445	7
95°	2	132	286	392	430	1
105°	2	114	268	369	402	2
115°	3	99	227	328	364	3
125°	3	84	194	280	314	3
135°	3	66	162	230	258	3
145°	3	48	112	174	195	2
155°	5	33	70	111	129	2
165°	5	22	38	51	66	1
175°	5	8	12	12	7	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2682.6	2682.6	2682.6	2682.6	2682.6
2.5°	2700.8	2692.5	2664.4	2682.6	2674.3
5°	2689.2	2684.3	2661.1	2682.6	2676.0
7.5°	2671.0	2669.4	2651.2	2676.0	2669.4
10°	2646.2	2649.5	2634.7	2661.1	2656.2
12.5°	2614.8	2619.8	2613.2	2642.9	2639.6
15°	2576.8	2585.0	2583.4	2618.1	2618.1
17.5°	2530.5	2542.0	2548.7	2588.3	2588.3
20°	2475.9	2494.1	2507.3	2550.3	2556.9
22.5°	2421.3	2442.8	2462.7	2507.3	2517.2
25°	2351.8	2384.9	2413.0	2466.0	2467.6
27.5°	2284.0	2320.4	2358.5	2409.7	2414.7
30°	2209.6	2255.9	2302.2	2351.8	2366.7
32.5°	2130.2	2181.5	2232.8	2298.9	2318.8
35°	2044.2	2098.8	2169.9	2239.4	2259.2
37.5°	1958.2	2019.4	2102.1	2173.2	2191.4
40°	1870.6	1938.4	2031.0	2103.8	2125.3
42.5°	1773.0	1855.7	1954.9	2032.6	2057.4
45°	1680.4	1768.0	1875.5	1959.9	1983.0
47.5°	1582.8	1675.4	1791.2	1880.5	1906.9
50°	1478.6	1584.4	1708.5	1797.8	1822.6
52.5°	1381.0	1488.5	1619.2	1711.8	1746.5
55°	1278.5	1392.6	1526.5	1622.5	1655.5
57.5°	1182.5	1291.7	1435.6	1531.5	1572.9
60°	1073.4	1194.1	1338.0	1442.2	1475.3
62.5°	970.8	1093.2	1242.1	1349.6	1387.6
65°	865.0	989.0	1142.8	1255.3	1290.0
67.5°	765.8	888.1	1045.3	1156.1	1200.7
70°	656.6	785.6	946.0	1060.1	1098.2
72.5°	549.1	683.1	846.8	969.2	1012.2
75°	449.9	580.5	750.9	869.9	917.9
77.5°	353.9	486.2	658.3	780.6	822.0
80°	258.0	396.9	572.2	693.0	732.7
82.5°	170.4	315.9	489.6	610.3	653.3
85°	99.2	246.4	416.8	532.6	578.9
87.5°	43.0	186.9	349.0	463.1	501.1
90°	1.7	138.9	294.4	405.2	444.9
92.5°	1.7	135.6	287.8	396.9	435.0
95°	1.7	132.3	286.1	392.0	430.0
97.5°	1.7	130.7	282.8	388.7	425.1
100°	1.7	125.7	277.9	382.0	418.4
102.5°	1.7	119.1	272.9	375.4	410.2
105°	1.7	114.1	267.9	368.8	401.9
107.5°	1.7	109.2	259.7	360.5	393.6
110°	1.7	104.2	246.4	352.3	385.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	102.5	236.5	340.7	375.4
115°	3.3	99.2	226.6	327.5	363.9
117.5°	3.3	97.6	218.3	314.2	352.3
120°	3.3	92.6	210.0	302.7	339.0
122.5°	3.3	87.7	201.8	291.1	327.5
125°	3.3	84.3	193.5	279.5	314.2
127.5°	3.3	79.4	186.9	267.9	299.4
130°	3.3	76.1	178.6	254.7	286.1
132.5°	3.3	71.1	170.4	241.5	271.2
135°	3.3	66.2	162.1	229.9	258.0
137.5°	3.3	59.5	152.2	216.7	243.1
140°	3.3	54.6	138.9	203.4	228.2
142.5°	3.3	51.3	125.7	188.5	211.7
145°	3.3	48.0	112.5	173.7	195.2
147.5°	3.3	44.7	100.9	158.8	178.6
150°	3.3	39.7	89.3	145.5	162.1
152.5°	5.0	36.4	79.4	129.0	145.5
155°	5.0	33.1	69.5	110.8	129.0
157.5°	5.0	29.8	59.5	92.6	112.5
160°	5.0	26.5	51.3	76.1	95.9
162.5°	5.0	24.8	44.7	62.8	81.0
165°	5.0	21.5	38.0	51.3	66.2
167.5°	5.0	16.5	31.4	39.7	54.6
170°	5.0	13.2	24.8	28.1	41.3
172.5°	5.0	9.9	18.2	19.8	21.5
175°	5.0	8.3	11.6	11.6	6.6
177.5°	5.0	6.6	6.6	6.6	3.3
180°	3.3	3.3	3.3	3.3	3.3

(END OF REPORT)