

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: P565968

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565968  
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-L840-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

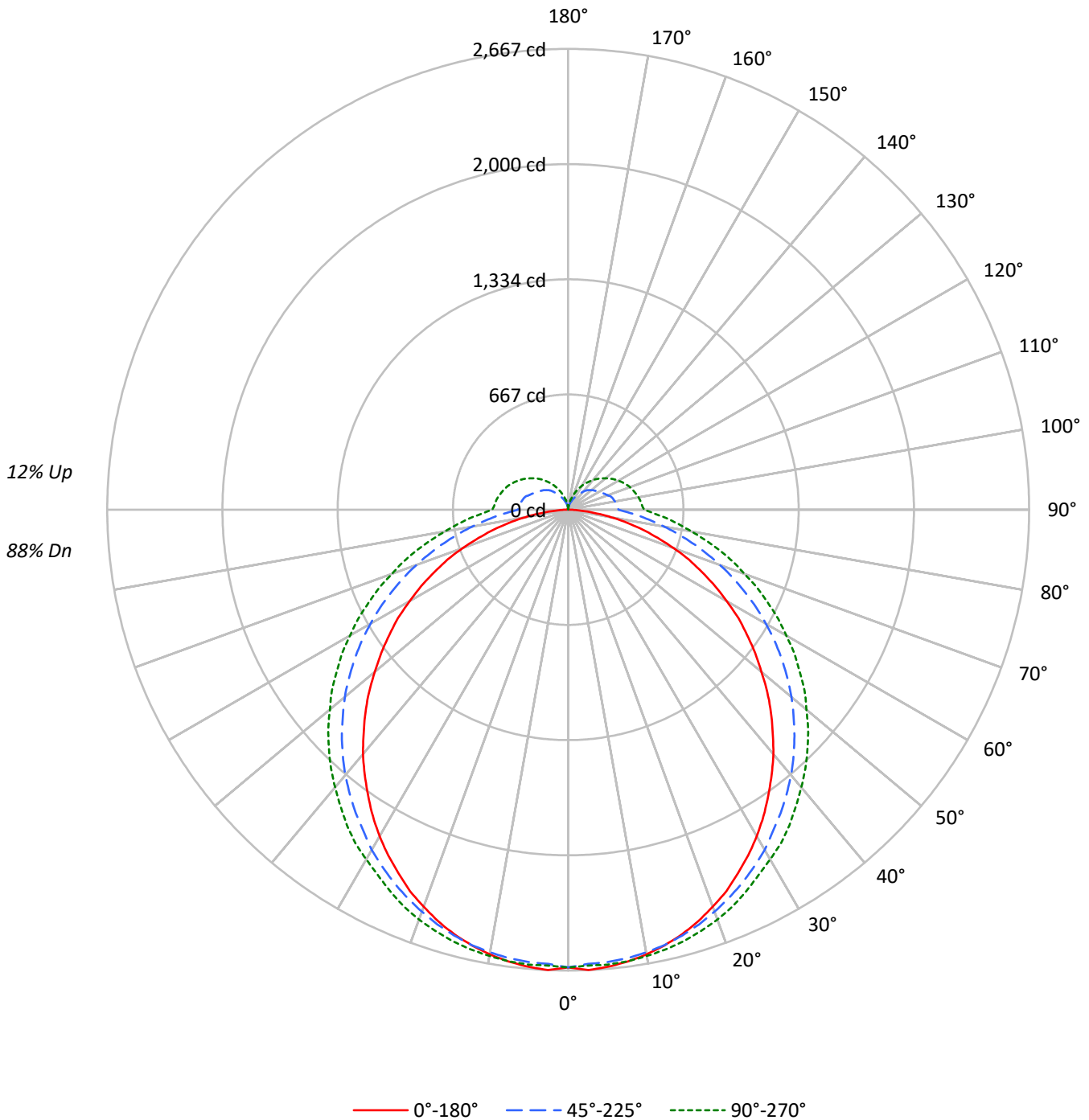
Lumens per Lamp: N/A  
Luminaire Lumens: 9536.0 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

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°	28510	28510	28510
5°	28586	27198	26976
10°	28350	26126	25650
15°	28039	25062	24440
20°	27584	23985	23272
25°	27053	22940	22074
30°	26480	21915	20972
35°	25771	20843	19984
40°	25075	19839	18908
45°	24245	18782	17883
50°	23290	17689	16793
55°	22358	16490	15714
60°	21279	15229	14553
65°	19969	13856	13352
70°	18307	12372	12051
75°	15988	10746	10806
80°	12770	9119	9379
85°	8199	7557	8189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.5	2.6
10°-20°	723.3	7.6
20°-30°	1100.4	11.5
30°-40°	1338.0	14.0
40°-50°	1415.5	14.8
50°-60°	1326.9	13.9
60°-70°	1091.6	11.4
70°-80°	755.3	7.9
80°-90°	420.0	4.4
90°-100°	276.7	2.9
100°-110°	248.1	2.6
110°-120°	205.4	2.2
120°-130°	158.8	1.7
130°-140°	112.4	1.2
140°-150°	67.8	0.7
150°-160°	32.6	0.3
160°-170°	10.7	0.1
170°-180°	1.3	0.0
0°-30°	2075.2	21.8
0°-40°	3413.1	35.8
0°-60°	6155.6	64.6
0°-90°	8422.4	88.3
90°-120°	730.1	7.7
90°-150°	1069.1	11.2
90°-180°	1114.0	11.7
0°-180°	9536.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2649	2649	2649	2649	2649	
5°	2655	2650	2628	2649	2642	252
15°	2544	2552	2551	2585	2585	717
25°	2322	2355	2383	2435	2436	1070
35°	2018	2072	2142	2211	2231	1263
45°	1659	1746	1852	1935	1958	1279
55°	1262	1375	1507	1602	1635	1130
65°	854	976	1128	1239	1274	847
75°	444	573	741	859	906	471
85°	98	243	412	526	572	113
90°	2	137	291	400	439	6
95°	2	131	282	387	425	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	172	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°	2648.7	2648.7	2648.7	2648.7	2648.7
2.5°	2666.7	2658.5	2630.8	2648.7	2640.6
5°	2655.3	2650.4	2627.5	2648.7	2642.2
7.5°	2637.3	2635.7	2617.7	2642.2	2635.7
10°	2612.8	2616.1	2601.4	2627.5	2622.6
12.5°	2581.8	2586.7	2580.1	2609.5	2606.3
15°	2544.2	2552.4	2550.8	2585.0	2585.0
17.5°	2498.5	2509.9	2516.5	2555.7	2555.7
20°	2444.6	2462.6	2475.6	2518.1	2524.6
22.5°	2390.7	2411.9	2431.5	2475.6	2485.4
25°	2322.1	2354.8	2382.6	2434.8	2436.4
27.5°	2255.2	2291.1	2328.7	2379.3	2384.2
30°	2181.7	2227.4	2273.1	2322.1	2336.8
32.5°	2103.3	2153.9	2204.6	2269.9	2289.5
35°	2018.4	2072.3	2142.5	2211.1	2230.7
37.5°	1933.5	1993.9	2075.5	2145.8	2163.7
40°	1846.9	1913.9	2005.3	2077.2	2098.4
42.5°	1750.6	1832.2	1930.2	2007.0	2031.5
45°	1659.1	1745.7	1851.8	1935.1	1958.0
47.5°	1562.8	1654.2	1768.5	1856.7	1882.9
50°	1459.9	1564.4	1686.9	1775.1	1799.6
52.5°	1363.6	1469.7	1598.7	1690.2	1724.5
55°	1262.3	1375.0	1507.3	1602.0	1634.6
57.5°	1167.6	1275.4	1417.4	1512.2	1553.0
60°	1059.8	1179.0	1321.1	1424.0	1456.6
62.5°	958.6	1079.4	1226.4	1332.5	1370.1
65°	854.1	976.5	1128.4	1239.4	1273.7
67.5°	756.1	876.9	1032.1	1141.5	1185.6
70°	648.3	775.7	934.1	1046.8	1084.3
72.5°	542.2	674.4	836.1	956.9	999.4
75°	444.2	573.2	741.4	859.0	906.3
77.5°	349.5	480.1	649.9	770.8	811.6
80°	254.7	391.9	565.0	684.2	723.4
82.5°	168.2	311.9	483.4	602.6	645.0
85°	98.0	243.3	411.5	525.8	571.6
87.5°	42.5	184.5	344.6	457.2	494.8
90°	1.6	137.2	290.7	400.1	439.3
92.5°	1.6	133.9	284.1	391.9	429.5
95°	1.6	130.6	282.5	387.0	424.6
97.5°	1.6	129.0	279.2	383.8	419.7
100°	1.6	124.1	274.3	377.2	413.1
102.5°	1.6	117.6	269.4	370.7	405.0
105°	1.6	112.7	264.5	364.2	396.8
107.5°	1.6	107.8	256.4	356.0	388.7
110°	1.6	102.9	243.3	347.8	380.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	101.2	233.5	336.4	370.7
115°	3.3	98.0	223.7	323.3	359.3
117.5°	3.3	96.3	215.6	310.3	347.8
120°	3.3	91.4	207.4	298.8	334.8
122.5°	3.3	86.5	199.2	287.4	323.3
125°	3.3	83.3	191.1	276.0	310.3
127.5°	3.3	78.4	184.5	264.5	295.6
130°	3.3	75.1	176.4	251.5	282.5
132.5°	3.3	70.2	168.2	238.4	267.8
135°	3.3	65.3	160.0	227.0	254.7
137.5°	3.3	58.8	150.2	213.9	240.1
140°	3.3	53.9	137.2	200.9	225.4
142.5°	3.3	50.6	124.1	186.2	209.0
145°	3.3	47.4	111.0	171.5	192.7
147.5°	3.3	44.1	99.6	156.8	176.4
150°	3.3	39.2	88.2	143.7	160.0
152.5°	4.9	35.9	78.4	127.4	143.7
155°	4.9	32.7	68.6	109.4	127.4
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	62.1	80.0
165°	4.9	21.2	37.6	50.6	65.3
167.5°	4.9	16.3	31.0	39.2	53.9
170°	4.9	13.1	24.5	27.8	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)