

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: P566976

Luminaire Tested: **4SNX-90HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566976  
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-90HL-LW-UNV-L840-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

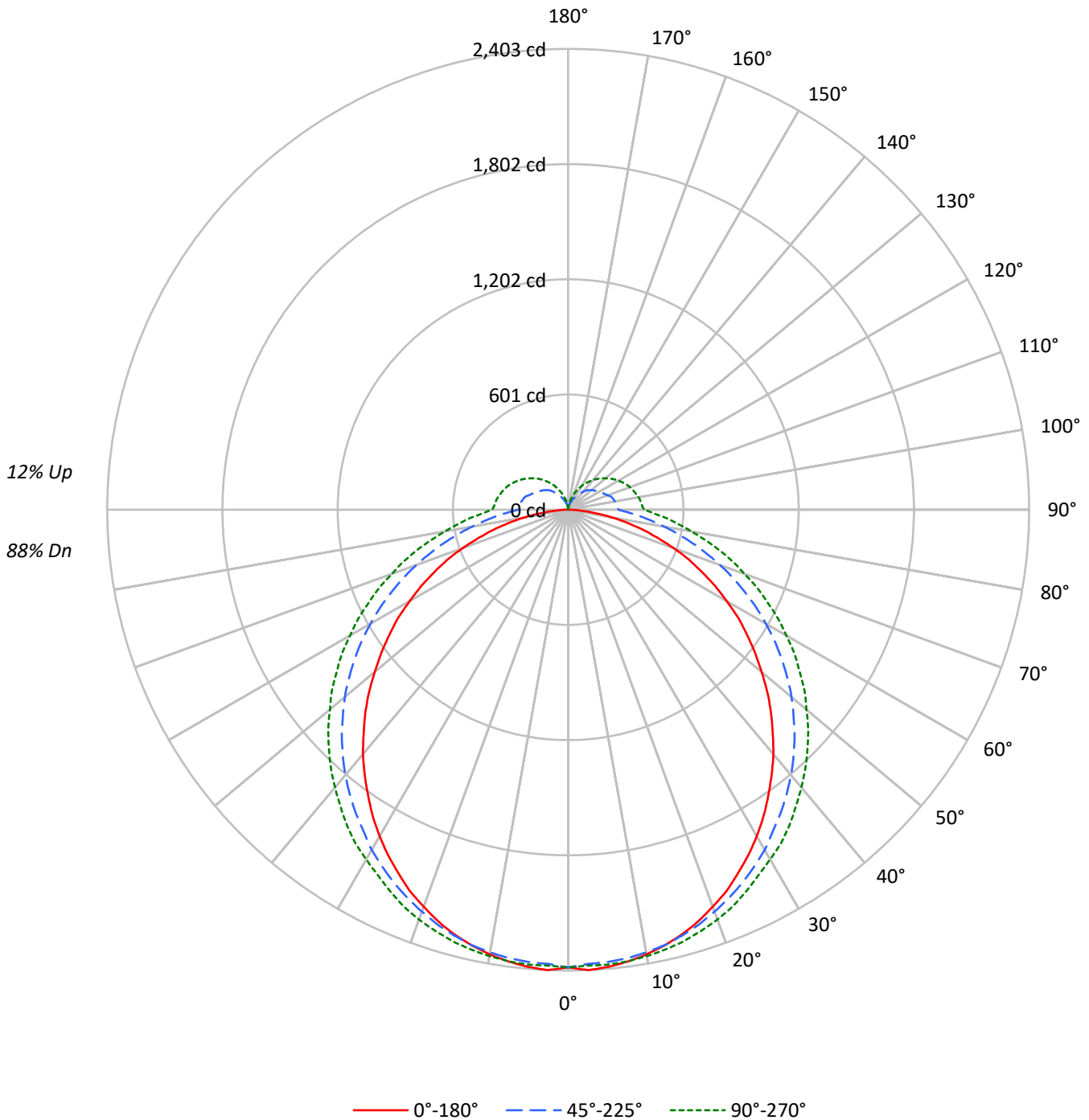
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8593.0 lumens  
Efficiency: N/A  
Efficacy: 133.4 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): 64.4  
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°	25691	25691	25691
5°	25759	24509	24308
10°	25546	23542	23114
15°	25266	22583	22024
20°	24857	21613	20971
25°	24378	20670	19891
30°	23860	19749	18898
35°	23222	18782	18007
40°	22596	17877	17038
45°	21849	16925	16115
50°	20987	15940	15132
55°	20148	14859	14160
60°	19175	13723	13114
65°	17994	12486	12032
70°	16497	11148	10860
75°	14407	9684	9738
80°	11512	8217	8452
85°	7387	6810	7378



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.6	2.6
10°-20°	651.8	7.6
20°-30°	991.6	11.5
30°-40°	1205.7	14.0
40°-50°	1275.5	14.8
50°-60°	1195.7	13.9
60°-70°	983.6	11.4
70°-80°	680.6	7.9
80°-90°	378.5	4.4
90°-100°	249.3	2.9
100°-110°	223.6	2.6
110°-120°	185.0	2.2
120°-130°	143.1	1.7
130°-140°	101.3	1.2
140°-150°	61.1	0.7
150°-160°	29.3	0.3
160°-170°	9.6	0.1
170°-180°	1.2	0.0
0°-30°	1870.0	21.8
0°-40°	3075.6	35.8
0°-60°	5546.8	64.6
0°-90°	7589.5	88.3
90°-120°	657.9	7.7
90°-150°	963.3	11.2
90°-180°	1003.0	11.7
0°-180°	8593.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2387	2387	2387	2387	2387	
5°	2393	2388	2368	2387	2381	227
15°	2293	2300	2298	2329	2329	646
25°	2092	2122	2147	2194	2196	965
35°	1819	1867	1931	1992	2010	1138
45°	1495	1573	1669	1744	1764	1152
55°	1138	1239	1358	1444	1473	1018
65°	770	880	1017	1117	1148	763
75°	400	516	668	774	817	425
85°	88	219	371	474	515	102
90°	2	124	262	360	396	6
95°	2	118	255	349	383	1
105°	2	102	238	328	358	2
115°	3	88	202	291	324	2
125°	3	75	172	249	280	3
135°	3	59	144	204	230	2
145°	3	43	100	154	174	2
155°	4	29	62	99	115	2
165°	4	19	34	46	59	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2386.8	2386.8	2386.8	2386.8	2386.8
2.5°	2403.0	2395.6	2370.6	2386.8	2379.4
5°	2392.7	2388.3	2367.7	2386.8	2380.9
7.5°	2376.5	2375.0	2358.8	2380.9	2375.0
10°	2354.4	2357.4	2344.1	2367.7	2363.3
12.5°	2326.5	2330.9	2325.0	2351.5	2348.5
15°	2292.6	2300.0	2298.5	2329.4	2329.4
17.5°	2251.4	2261.7	2267.6	2302.9	2302.9
20°	2202.9	2219.1	2230.8	2269.1	2275.0
22.5°	2154.3	2173.4	2191.1	2230.8	2239.7
25°	2092.5	2121.9	2146.9	2194.0	2195.5
27.5°	2032.2	2064.5	2098.4	2144.0	2148.4
30°	1965.9	2007.2	2048.4	2092.5	2105.7
32.5°	1895.3	1940.9	1986.6	2045.4	2063.1
35°	1818.8	1867.4	1930.6	1992.4	2010.1
37.5°	1742.3	1796.7	1870.3	1933.6	1949.8
40°	1664.3	1724.6	1807.0	1871.8	1890.9
42.5°	1577.5	1651.0	1739.3	1808.5	1830.6
45°	1495.1	1573.1	1668.7	1743.7	1764.4
47.5°	1408.2	1490.6	1593.7	1673.1	1696.7
50°	1315.5	1409.7	1520.1	1599.5	1621.6
52.5°	1228.7	1324.4	1440.6	1523.0	1553.9
55°	1137.5	1239.0	1358.2	1443.6	1473.0
57.5°	1052.1	1149.3	1277.3	1362.6	1399.4
60°	955.0	1062.4	1190.5	1283.2	1312.6
62.5°	863.8	972.7	1105.1	1200.8	1234.6
65°	769.6	880.0	1016.8	1116.9	1147.8
67.5°	681.3	790.2	930.0	1028.6	1068.3
70°	584.2	699.0	841.7	943.2	977.1
72.5°	488.5	607.7	753.4	862.3	900.6
75°	400.3	516.5	668.1	774.0	816.7
77.5°	314.9	432.6	585.7	694.6	731.3
80°	229.6	353.2	509.1	616.6	651.9
82.5°	151.6	281.1	435.6	543.0	581.2
85°	88.3	219.3	370.8	473.8	515.0
87.5°	38.3	166.3	310.5	412.0	445.9
90°	1.5	123.6	261.9	360.5	395.8
92.5°	1.5	120.7	256.0	353.2	387.0
95°	1.5	117.7	254.6	348.7	382.6
97.5°	1.5	116.2	251.6	345.8	378.2
100°	1.5	111.8	247.2	339.9	372.3
102.5°	1.5	105.9	242.8	334.0	364.9
105°	1.5	101.5	238.4	328.1	357.6
107.5°	1.5	97.1	231.0	320.8	350.2
110°	1.5	92.7	219.3	313.4	342.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	91.2	210.4	303.1	334.0
115°	2.9	88.3	201.6	291.4	323.7
117.5°	2.9	86.8	194.2	279.6	313.4
120°	2.9	82.4	186.9	269.3	301.7
122.5°	2.9	78.0	179.5	259.0	291.4
125°	2.9	75.0	172.2	248.7	279.6
127.5°	2.9	70.6	166.3	238.4	266.3
130°	2.9	67.7	158.9	226.6	254.6
132.5°	2.9	63.3	151.6	214.8	241.3
135°	2.9	58.9	144.2	204.5	229.6
137.5°	2.9	53.0	135.4	192.8	216.3
140°	2.9	48.6	123.6	181.0	203.1
142.5°	2.9	45.6	111.8	167.8	188.4
145°	2.9	42.7	100.1	154.5	173.6
147.5°	2.9	39.7	89.8	141.3	158.9
150°	2.9	35.3	79.5	129.5	144.2
152.5°	4.4	32.4	70.6	114.8	129.5
155°	4.4	29.4	61.8	98.6	114.8
157.5°	4.4	26.5	53.0	82.4	100.1
160°	4.4	23.5	45.6	67.7	85.3
162.5°	4.4	22.1	39.7	55.9	72.1
165°	4.4	19.1	33.8	45.6	58.9
167.5°	4.4	14.7	28.0	35.3	48.6
170°	4.4	11.8	22.1	25.0	36.8
172.5°	4.4	8.8	16.2	17.7	19.1
175°	4.4	7.4	10.3	10.3	5.9
177.5°	4.4	5.9	5.9	5.9	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)