

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: P565972

Luminaire Tested: **4SNX-100HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565972  
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-L940-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

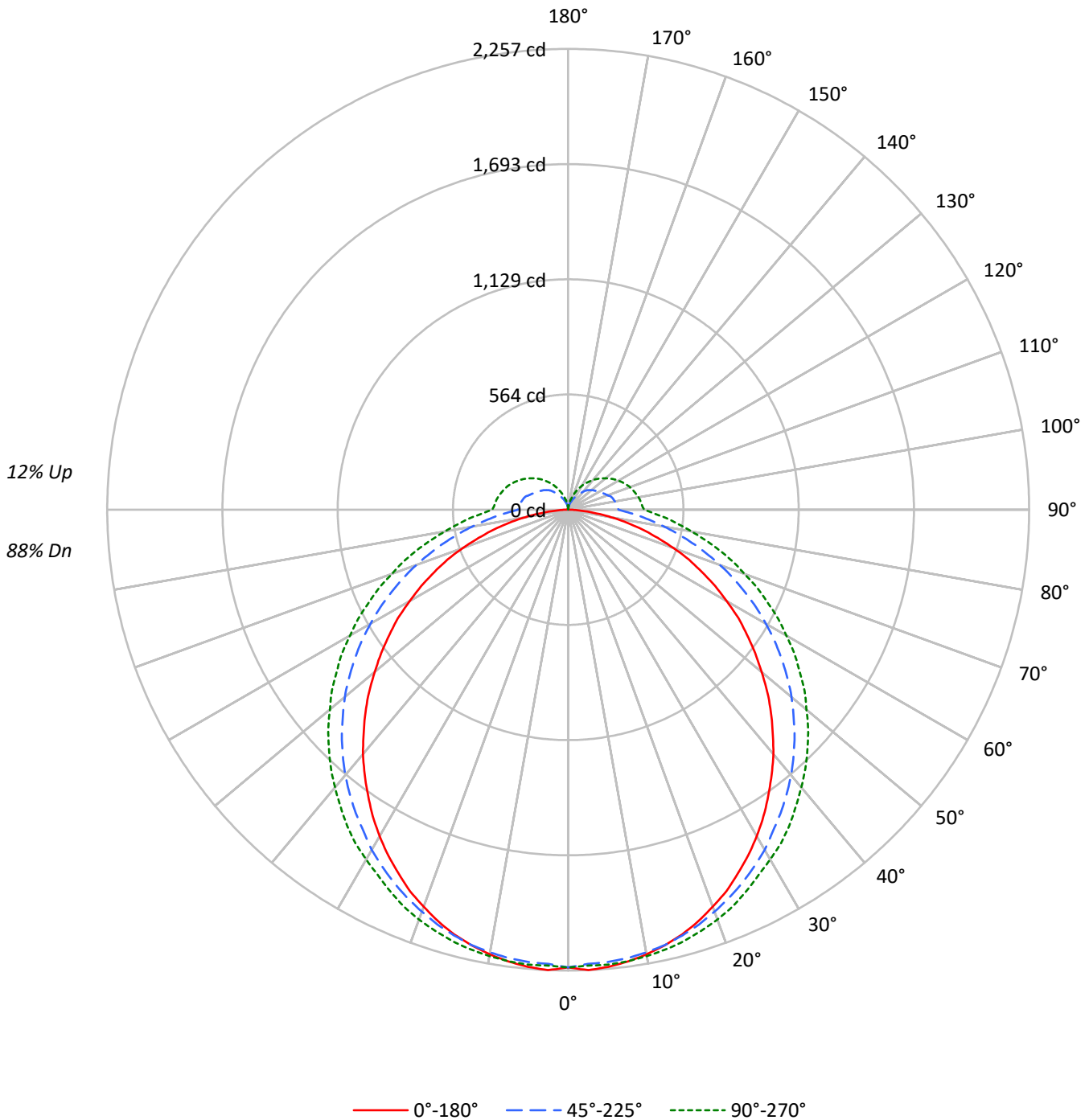
Lumens per Lamp: N/A  
Luminaire Lumens: 8071.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

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°	24131	24131	24131
5°	24194	23019	22832
10°	23994	22112	21709
15°	23732	21211	20686
20°	23346	20300	19697
25°	22898	19415	18683
30°	22411	18548	17750
35°	21811	17641	16913
40°	21223	16792	16003
45°	20520	15896	15136
50°	19712	14971	14213
55°	18924	13957	13300
60°	18011	12889	12318
65°	16902	11728	11301
70°	15495	10471	10199
75°	13529	9095	9146
80°	10810	7718	7939
85°	6935	6396	6930



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.8	2.6
10°-20°	612.2	7.6
20°-30°	931.3	11.5
30°-40°	1132.4	14.0
40°-50°	1198.1	14.8
50°-60°	1123.0	13.9
60°-70°	923.9	11.4
70°-80°	639.2	7.9
80°-90°	355.5	4.4
90°-100°	234.2	2.9
100°-110°	210.0	2.6
110°-120°	173.8	2.2
120°-130°	134.4	1.7
130°-140°	95.1	1.2
140°-150°	57.4	0.7
150°-160°	27.6	0.3
160°-170°	9.0	0.1
170°-180°	1.1	0.0
0°-30°	1756.4	21.8
0°-40°	2888.8	35.8
0°-60°	5209.9	64.6
0°-90°	7128.4	88.3
90°-120°	618.0	7.7
90°-150°	904.9	11.2
90°-180°	943.0	11.7
0°-180°	8071.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2247	2243	2224	2242	2236	213
15°	2153	2160	2159	2188	2188	607
25°	1965	1993	2016	2061	2062	906
35°	1708	1754	1813	1871	1888	1069
45°	1404	1478	1567	1638	1657	1082
55°	1068	1164	1276	1356	1384	956
65°	723	826	955	1049	1078	717
75°	376	485	628	727	767	399
85°	83	206	348	445	484	95
90°	1	116	246	339	372	5
95°	1	111	239	328	359	1
105°	1	95	224	308	336	1
115°	3	83	189	274	304	2
125°	3	70	162	234	263	3
135°	3	55	135	192	216	2
145°	3	40	94	145	163	2
155°	4	28	58	93	108	2
165°	4	18	32	43	55	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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CATALOG NUMBER: 4SNX-100HL-LW-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2241.8	2241.8	2241.8	2241.8	2241.8
2.5°	2257.0	2250.1	2226.6	2241.8	2234.9
5°	2247.3	2243.2	2223.8	2241.8	2236.3
7.5°	2232.1	2230.8	2215.6	2236.3	2230.8
10°	2211.4	2214.2	2201.7	2223.8	2219.7
12.5°	2185.1	2189.3	2183.8	2208.6	2205.9
15°	2153.4	2160.3	2158.9	2187.9	2187.9
17.5°	2114.7	2124.3	2129.9	2163.0	2163.0
20°	2069.0	2084.2	2095.3	2131.2	2136.8
22.5°	2023.4	2041.4	2058.0	2095.3	2103.6
25°	1965.4	1993.0	2016.5	2060.8	2062.1
27.5°	1908.7	1939.1	1970.9	2013.8	2017.9
30°	1846.5	1885.2	1923.9	1965.4	1977.8
32.5°	1780.2	1823.0	1865.9	1921.2	1937.7
35°	1708.3	1753.9	1813.4	1871.4	1888.0
37.5°	1636.4	1687.6	1756.7	1816.1	1831.3
40°	1563.2	1619.9	1697.3	1758.1	1776.0
42.5°	1481.6	1550.7	1633.7	1698.6	1719.4
45°	1404.2	1477.5	1567.3	1637.8	1657.2
47.5°	1322.7	1400.1	1496.8	1571.5	1593.6
50°	1235.6	1324.1	1427.7	1502.4	1523.1
52.5°	1154.1	1243.9	1353.1	1430.5	1459.5
55°	1068.4	1163.8	1275.7	1355.9	1383.5
57.5°	988.2	1079.4	1199.7	1279.9	1314.4
60°	897.0	997.9	1118.1	1205.2	1232.9
62.5°	811.3	913.6	1038.0	1127.8	1159.6
65°	722.9	826.5	955.1	1049.0	1078.1
67.5°	639.9	742.2	873.5	966.1	1003.4
70°	548.7	656.5	790.6	885.9	917.7
72.5°	458.9	570.8	707.6	809.9	845.9
75°	375.9	485.1	627.5	727.0	767.1
77.5°	295.8	406.3	550.1	652.4	686.9
80°	215.6	331.7	478.2	579.1	612.3
82.5°	142.4	264.0	409.1	510.0	545.9
85°	82.9	205.9	348.3	445.0	483.7
87.5°	35.9	156.2	291.6	387.0	418.8
90°	1.4	116.1	246.0	338.6	371.8
92.5°	1.4	113.3	240.5	331.7	363.5
95°	1.4	110.6	239.1	327.6	359.4
97.5°	1.4	109.2	236.3	324.8	355.2
100°	1.4	105.0	232.2	319.3	349.7
102.5°	1.4	99.5	228.1	313.7	342.8
105°	1.4	95.4	223.9	308.2	335.9
107.5°	1.4	91.2	217.0	301.3	328.9
110°	1.4	87.1	205.9	294.4	322.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	85.7	197.6	284.7	313.7
115°	2.8	82.9	189.4	273.7	304.1
117.5°	2.8	81.5	182.4	262.6	294.4
120°	2.8	77.4	175.5	252.9	283.3
122.5°	2.8	73.3	168.6	243.3	273.7
125°	2.8	70.5	161.7	233.6	262.6
127.5°	2.8	66.3	156.2	223.9	250.2
130°	2.8	63.6	149.3	212.8	239.1
132.5°	2.8	59.4	142.4	201.8	226.7
135°	2.8	55.3	135.4	192.1	215.6
137.5°	2.8	49.8	127.2	181.1	203.2
140°	2.8	45.6	116.1	170.0	190.7
142.5°	2.8	42.8	105.0	157.6	176.9
145°	2.8	40.1	94.0	145.1	163.1
147.5°	2.8	37.3	84.3	132.7	149.3
150°	2.8	33.2	74.6	121.6	135.4
152.5°	4.1	30.4	66.3	107.8	121.6
155°	4.1	27.6	58.0	92.6	107.8
157.5°	4.1	24.9	49.8	77.4	94.0
160°	4.1	22.1	42.8	63.6	80.2
162.5°	4.1	20.7	37.3	52.5	67.7
165°	4.1	18.0	31.8	42.8	55.3
167.5°	4.1	13.8	26.3	33.2	45.6
170°	4.1	11.1	20.7	23.5	34.6
172.5°	4.1	8.3	15.2	16.6	18.0
175°	4.1	6.9	9.7	9.7	5.5
177.5°	4.1	5.5	5.5	5.5	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)