

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: P565971

Luminaire Tested: **4SNX-100HL-LW-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565971  
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-L935-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

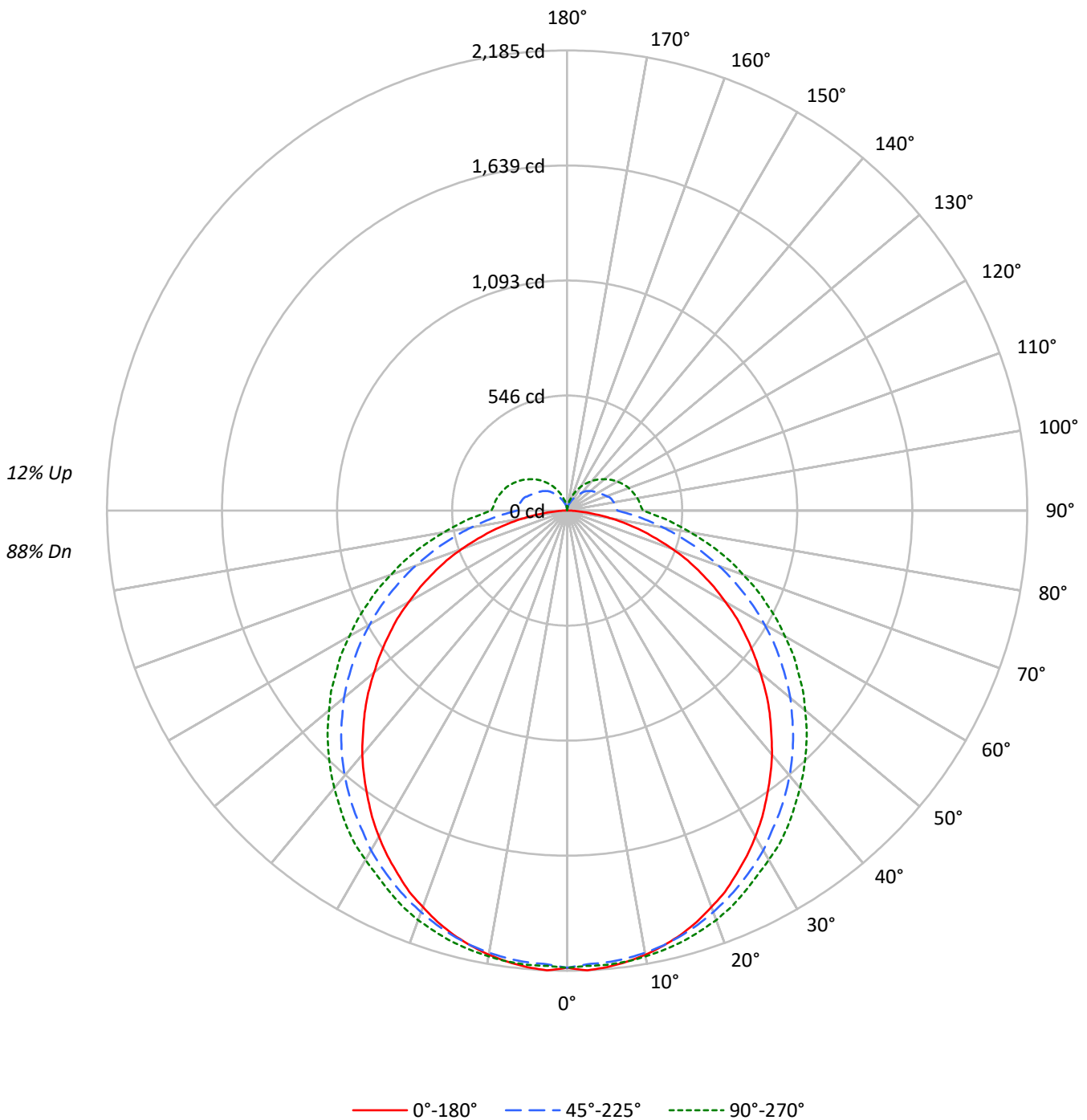
Lumens per Lamp: N/A  
Luminaire Lumens: 7815.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

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°	23365	23365	23365
5°	23427	22290	22108
10°	23234	21411	21021
15°	22979	20538	20030
20°	22606	19656	19072
25°	22171	18800	18090
30°	21701	17960	17187
35°	21119	17081	16377
40°	20550	16259	15496
45°	19870	15392	14655
50°	19087	14497	13762
55°	18323	13514	12878
60°	17438	12481	11927
65°	16364	11356	10943
70°	15003	10139	9876
75°	13101	8807	8856
80°	10469	7473	7687
85°	6718	6193	6711



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.1	2.6
10°-20°	592.8	7.6
20°-30°	901.8	11.5
30°-40°	1096.5	14.0
40°-50°	1160.1	14.8
50°-60°	1087.4	13.9
60°-70°	894.6	11.4
70°-80°	619.0	7.9
80°-90°	344.2	4.4
90°-100°	226.7	2.9
100°-110°	203.3	2.6
110°-120°	168.3	2.2
120°-130°	130.1	1.7
130°-140°	92.1	1.2
140°-150°	55.6	0.7
150°-160°	26.7	0.3
160°-170°	8.7	0.1
170°-180°	1.1	0.0
0°-30°	1700.7	21.8
0°-40°	2797.2	35.8
0°-60°	5044.6	64.6
0°-90°	6902.3	88.3
90°-120°	598.4	7.7
90°-150°	876.1	11.2
90°-180°	913.0	11.7
0°-180°	7815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2171	2171	2171	2171	2171	
5°	2176	2172	2153	2171	2165	207
15°	2085	2092	2090	2118	2118	588
25°	1903	1930	1953	1995	1997	877
35°	1654	1698	1756	1812	1828	1035
45°	1360	1431	1518	1586	1605	1048
55°	1034	1127	1235	1313	1340	926
65°	700	800	925	1016	1044	694
75°	364	470	608	704	743	386
85°	80	199	337	431	468	92
90°	1	112	238	328	360	5
95°	1	107	232	317	348	1
105°	1	92	217	298	325	1
115°	3	80	183	265	294	2
125°	3	68	157	226	254	2
135°	3	54	131	186	209	2
145°	3	39	91	140	158	2
155°	4	27	56	90	104	2
165°	4	17	31	42	54	1
175°	4	7	9	9	5	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2170.7	2170.7	2170.7	2170.7	2170.7
2.5°	2185.4	2178.7	2156.0	2170.7	2164.0
5°	2176.1	2172.0	2153.3	2170.7	2165.4
7.5°	2161.3	2160.0	2145.3	2165.4	2160.0
10°	2141.3	2143.9	2131.9	2153.3	2149.3
12.5°	2115.8	2119.8	2114.5	2138.6	2135.9
15°	2085.1	2091.7	2090.4	2118.5	2118.5
17.5°	2047.6	2057.0	2062.3	2094.4	2094.4
20°	2003.4	2018.1	2028.8	2063.6	2069.0
22.5°	1959.3	1976.7	1992.7	2028.8	2036.9
25°	1903.0	1929.8	1952.6	1995.4	1996.7
27.5°	1848.2	1877.6	1908.4	1949.9	1953.9
30°	1788.0	1825.4	1862.9	1903.0	1915.1
32.5°	1723.7	1765.2	1806.7	1860.2	1876.3
35°	1654.1	1698.3	1755.8	1812.0	1828.1
37.5°	1584.5	1634.1	1701.0	1758.5	1773.2
40°	1513.6	1568.5	1643.4	1702.3	1719.7
42.5°	1434.6	1501.6	1581.9	1644.8	1664.8
45°	1359.7	1430.6	1517.6	1585.9	1604.6
47.5°	1280.7	1355.7	1449.4	1521.6	1543.0
50°	1196.4	1282.1	1382.5	1454.7	1474.8
52.5°	1117.5	1204.5	1310.2	1385.1	1413.2
55°	1034.5	1126.8	1235.2	1312.9	1339.6
57.5°	956.9	1045.2	1161.6	1239.3	1272.7
60°	868.5	966.2	1082.7	1167.0	1193.8
62.5°	785.6	884.6	1005.1	1092.0	1122.8
65°	699.9	800.3	924.8	1015.8	1043.9
67.5°	619.6	718.7	845.8	935.5	971.6
70°	531.3	635.7	765.5	857.8	888.6
72.5°	444.3	552.7	685.2	784.2	819.0
75°	364.0	469.7	607.6	703.9	742.8
77.5°	286.4	393.5	532.6	631.7	665.1
80°	208.8	321.2	463.0	560.7	592.9
82.5°	137.8	255.6	396.1	493.8	528.6
85°	80.3	199.4	337.2	430.9	468.4
87.5°	34.8	151.2	282.4	374.7	405.5
90°	1.3	112.4	238.2	327.9	360.0
92.5°	1.3	109.7	232.9	321.2	352.0
95°	1.3	107.1	231.5	317.2	348.0
97.5°	1.3	105.7	228.8	314.5	343.9
100°	1.3	101.7	224.8	309.1	338.6
102.5°	1.3	96.4	220.8	303.8	331.9
105°	1.3	92.3	216.8	298.4	325.2
107.5°	1.3	88.3	210.1	291.7	318.5
110°	1.3	84.3	199.4	285.1	311.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	83.0	191.4	275.7	303.8
115°	2.7	80.3	183.3	265.0	294.4
117.5°	2.7	79.0	176.7	254.3	285.1
120°	2.7	74.9	170.0	244.9	274.3
122.5°	2.7	70.9	163.3	235.5	265.0
125°	2.7	68.3	156.6	226.2	254.3
127.5°	2.7	64.2	151.2	216.8	242.2
130°	2.7	61.6	144.5	206.1	231.5
132.5°	2.7	57.5	137.8	195.4	219.5
135°	2.7	53.5	131.2	186.0	208.8
137.5°	2.7	48.2	123.1	175.3	196.7
140°	2.7	44.2	112.4	164.6	184.7
142.5°	2.7	41.5	101.7	152.6	171.3
145°	2.7	38.8	91.0	140.5	157.9
147.5°	2.7	36.1	81.6	128.5	144.5
150°	2.7	32.1	72.3	117.8	131.2
152.5°	4.0	29.4	64.2	104.4	117.8
155°	4.0	26.8	56.2	89.7	104.4
157.5°	4.0	24.1	48.2	74.9	91.0
160°	4.0	21.4	41.5	61.6	77.6
162.5°	4.0	20.1	36.1	50.9	65.6
165°	4.0	17.4	30.8	41.5	53.5
167.5°	4.0	13.4	25.4	32.1	44.2
170°	4.0	10.7	20.1	22.8	33.5
172.5°	4.0	8.0	14.7	16.1	17.4
175°	4.0	6.7	9.4	9.4	5.4
177.5°	4.0	5.4	5.4	5.4	2.7
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)