

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: P565798

Luminaire Tested: **2SNX-47HL-LC-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-47HL-LC-UNV-L930-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

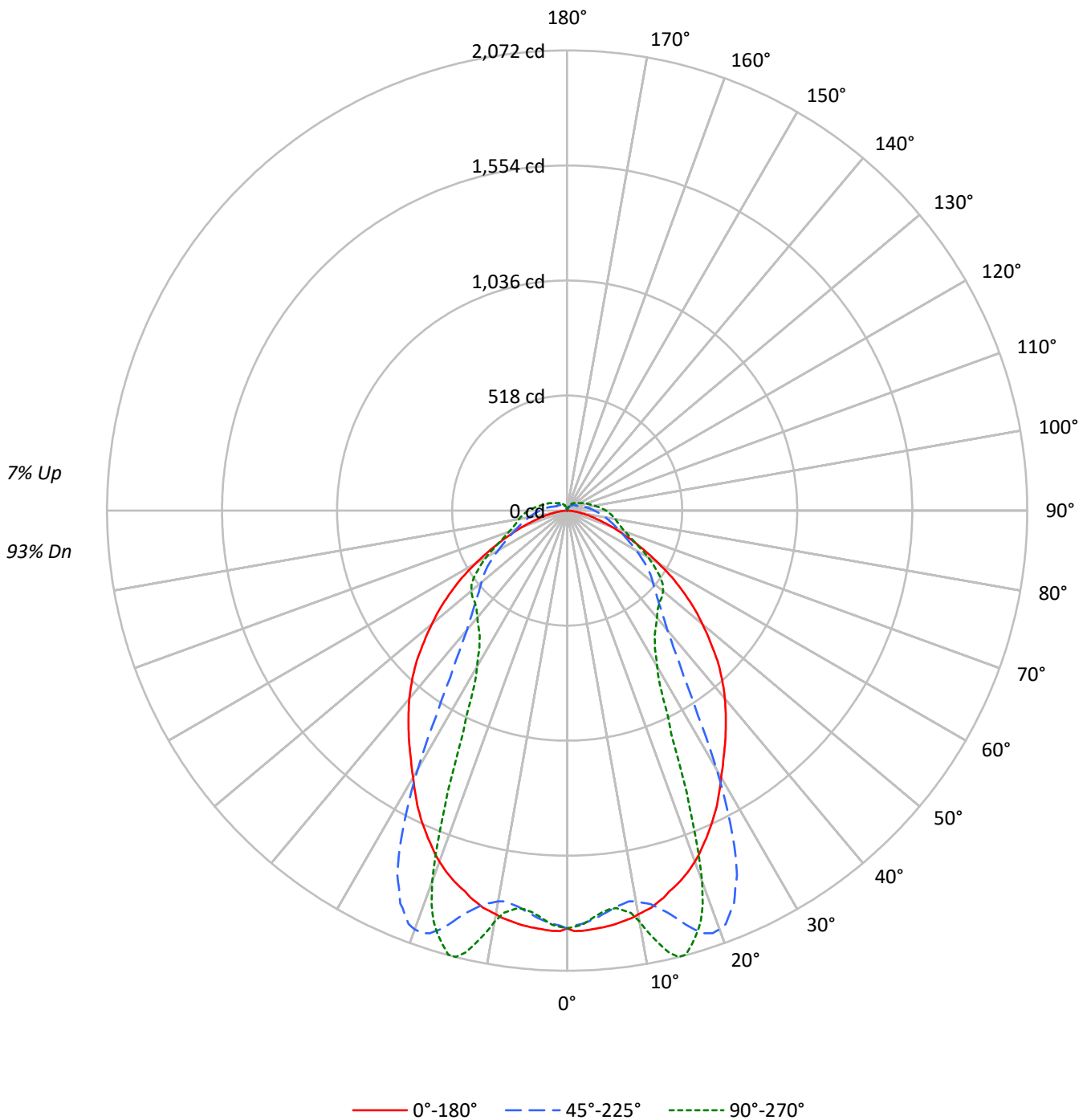
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4181.0 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 33.7  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	40498	40498	40498
5°	40402	37704	37071
10°	39771	35719	36760
15°	38702	37073	39135
20°	37386	38528	32753
25°	35365	34464	20139
30°	32900	25597	14575
35°	30863	17616	12295
40°	29024	13631	11332
45°	26909	11568	10717
50°	24214	10349	10520
55°	21389	9324	9733
60°	17845	8036	8418
65°	14209	6969	7025
70°	10822	6230	6186
75°	8019	5757	5768
80°	5211	5410	5710
85°	2429	5114	5671



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.1	4.2
10°-20°	534.9	12.8
20°-30°	720.3	17.2
30°-40°	681.6	16.3
40°-50°	601.6	14.4
50°-60°	488.7	11.7
60°-70°	332.4	7.9
70°-80°	213.8	5.1
80°-90°	142.2	3.4
90°-100°	97.7	2.3
100°-110°	65.6	1.6
110°-120°	46.3	1.1
120°-130°	33.1	0.8
130°-140°	23.3	0.6
140°-150°	14.5	0.3
150°-160°	7.1	0.2
160°-170°	2.5	0.1
170°-180°	0.4	0.0
0°-30°	1430.2	34.2
0°-40°	2111.9	50.5
0°-60°	3202.2	76.6
0°-90°	3890.6	93.1
90°-120°	209.6	5.0
90°-150°	280.5	6.7
90°-180°	290.0	6.9
0°-180°	4181.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1883	1866	1826	1824	1816	179
15°	1775	1764	1900	2068	2070	500
25°	1547	1834	1810	1314	1111	710
35°	1243	1744	919	708	686	778
45°	958	1173	582	574	587	735
55°	638	694	437	488	506	570
65°	329	374	292	325	335	330
75°	126	177	206	231	242	138
85°	19	75	146	185	198	25
90°	1	52	122	164	175	1
95°	1	40	103	139	149	0
105°	1	28	68	95	107	1
115°	1	24	50	71	80	2
125°	2	20	43	54	58	2
135°	3	16	35	45	47	2
145°	3	12	25	34	38	2
155°	3	7	15	23	26	1
165°	3	4	8	12	14	1
175°	4	4	4	4	3	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1881.2	1881.2	1881.2	1881.2	1881.2
1°	1894.0	1888.3	1869.1	1879.3	1874.2
2°	1893.4	1883.8	1862.1	1873.6	1867.2
3°	1890.2	1880.0	1851.9	1858.9	1849.3
4°	1887.0	1874.9	1841.0	1841.0	1830.2
5°	1883.2	1865.9	1825.7	1824.4	1815.5
6°	1878.7	1858.9	1812.3	1811.0	1805.9
7°	1872.3	1846.8	1797.6	1806.6	1802.7
8°	1864.6	1835.3	1790.0	1812.3	1818.0
9°	1857.6	1821.2	1781.0	1830.2	1834.6
10°	1846.1	1808.5	1786.8	1865.9	1879.3
11°	1836.6	1797.6	1799.5	1901.0	1941.2
12°	1827.0	1786.1	1811.7	1945.1	1994.2
13°	1811.0	1777.2	1838.5	1993.0	2043.4
14°	1797.0	1770.2	1864.6	2041.5	2071.5
15°	1775.3	1763.8	1899.8	2067.6	2069.6
16°	1760.6	1759.3	1940.6	2069.6	2033.8
17°	1744.0	1757.4	1973.8	2036.4	1994.2
18°	1725.5	1761.2	2001.3	1994.9	1946.4
19°	1704.4	1765.1	2012.7	1937.4	1874.9
20°	1681.4	1770.8	2006.4	1877.4	1776.6
21°	1658.5	1778.5	1994.2	1814.2	1647.6
22.5°	1615.7	1797.0	1936.8	1636.8	1434.4
23°	1603.6	1800.8	1923.4	1581.2	1378.9
24°	1573.6	1816.8	1862.1	1451.6	1232.0
25°	1546.7	1834.0	1809.7	1314.4	1111.4
26°	1516.7	1846.8	1730.6	1188.0	1037.3
27°	1487.4	1854.4	1640.6	1089.7	954.3
28°	1453.5	1862.7	1542.9	1004.8	891.8
29°	1421.6	1864.0	1446.5	937.1	842.6
30°	1387.2	1857.6	1345.0	882.9	812.0
32.5°	1311.8	1822.5	1096.7	779.4	735.4
35°	1242.9	1744.0	919.2	707.9	686.2
37.5°	1173.3	1620.2	794.8	663.3	656.2
40°	1105.0	1473.3	700.9	627.5	628.8
42.5°	1032.9	1322.0	636.4	598.1	603.9
45°	957.5	1173.3	581.5	574.5	586.7
47.5°	873.9	1037.3	538.1	559.2	577.7
50°	794.8	902.6	504.3	544.5	563.7
52.5°	719.4	792.2	473.7	519.6	542.0
55°	637.7	693.9	436.6	487.7	506.2
57.5°	559.8	605.2	397.7	448.1	464.7
60°	474.3	517.7	358.1	405.4	421.3
62.5°	397.1	443.0	324.3	362.6	375.4
65°	328.8	374.1	292.4	324.9	335.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	268.1	316.6	266.2	293.6	303.2
70°	211.3	262.4	243.2	268.1	278.3
72.5°	165.3	217.0	224.1	247.0	257.3
75°	126.4	176.8	206.2	231.1	241.9
77.5°	93.8	144.3	189.6	218.3	229.8
80°	61.9	114.9	174.9	206.8	220.2
82.5°	38.9	92.6	160.2	195.3	209.4
85°	19.2	75.3	146.2	185.1	197.9
87.5°	6.4	62.6	133.4	174.9	185.8
90°	0.6	52.3	121.9	164.1	174.9
92.5°	0.6	45.3	112.4	151.3	162.1
95°	0.6	40.2	102.8	139.2	148.7
97.5°	0.6	36.4	93.8	126.4	136.6
100°	0.6	32.6	84.3	114.3	125.1
102.5°	1.3	30.0	76.0	104.1	115.5
105°	1.3	28.1	67.7	95.1	106.6
107.5°	1.3	26.8	60.6	88.1	98.9
110°	1.3	25.5	55.5	81.7	93.2
112.5°	1.3	24.9	52.3	76.0	86.8
115°	1.3	24.3	49.8	70.9	79.8
117.5°	1.9	23.6	47.9	65.8	72.8
120°	1.9	22.3	46.6	61.3	67.0
122.5°	1.9	21.1	44.7	57.5	61.9
125°	1.9	20.4	42.8	53.6	57.5
127.5°	1.9	19.2	40.9	50.4	54.3
130°	2.6	17.9	38.9	47.9	51.1
132.5°	2.6	16.6	37.0	46.6	49.2
135°	2.6	16.0	35.1	44.7	47.2
137.5°	2.6	14.7	33.2	42.8	45.3
140°	2.6	13.4	30.6	40.2	42.8
142.5°	2.6	12.8	28.1	37.7	40.2
145°	2.6	11.5	24.9	34.5	37.7
147.5°	3.2	10.9	22.3	31.9	34.5
150°	3.2	9.6	19.8	29.4	31.9
152.5°	3.2	8.3	17.2	26.2	28.7
155°	3.2	7.0	15.3	23.0	26.2
157.5°	3.2	6.4	13.4	19.2	23.0
160°	3.2	5.7	11.5	16.6	19.8
162.5°	3.2	5.1	10.2	14.0	17.2
165°	3.2	4.5	8.3	11.5	14.0
167.5°	3.8	4.5	7.0	8.9	11.5
170°	3.8	4.5	5.7	7.0	8.9
172.5°	3.8	3.8	4.5	5.1	5.7
175°	3.8	3.8	3.8	3.8	3.2
177.5°	3.8	3.8	3.8	3.2	3.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)