

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: P566934

Luminaire Tested: **4SNX-87HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566934  
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-87HL-SLW-UNV-L830-CD  
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

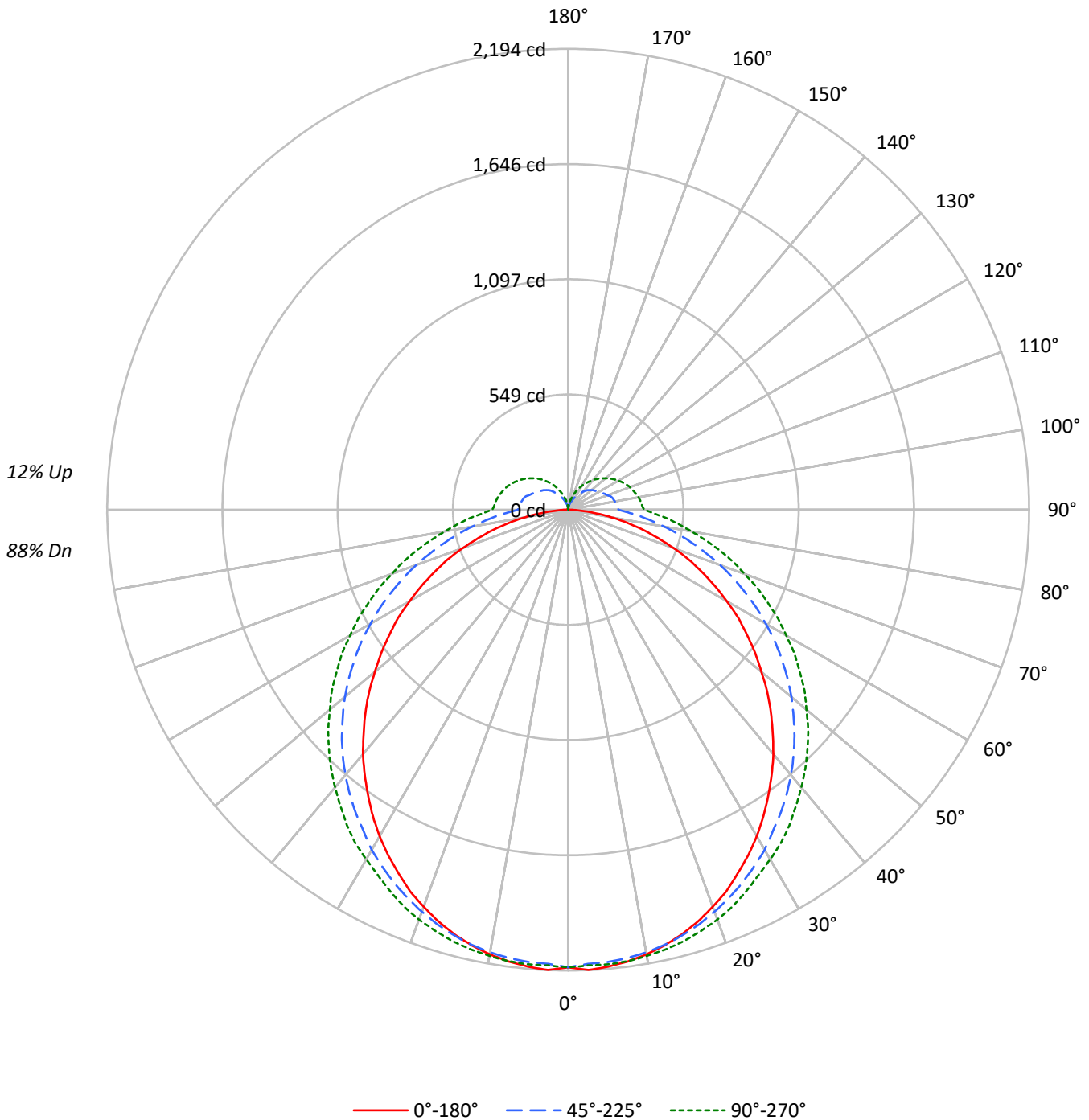
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7844.0 lumens  
Efficiency: N/A  
Efficacy: 126.1 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: 0.08')  
CIE Type: Semi-Direct  
  
Input Watts (W): 62.2  
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°	23452	23452	23452
5°	23557	22854	22821
10°	23405	22403	22275
15°	23192	21917	21760
20°	22862	21385	21223
25°	22468	20851	20611
30°	22041	20314	20048
35°	21504	19715	19563
40°	20981	19166	18969
45°	20352	18559	18406
50°	19625	17912	17761
55°	18924	17155	17117
60°	18117	16336	16377
65°	17130	15402	15587
70°	15879	14347	14679
75°	14104	13134	13847
80°	11619	11932	12796
85°	8046	10856	12109



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.8	2.6
10°-20°	595.0	7.6
20°-30°	905.1	11.5
30°-40°	1100.6	14.0
40°-50°	1164.4	14.8
50°-60°	1091.4	13.9
60°-70°	897.9	11.4
70°-80°	621.3	7.9
80°-90°	345.5	4.4
90°-100°	227.6	2.9
100°-110°	204.1	2.6
110°-120°	168.9	2.2
120°-130°	130.6	1.7
130°-140°	92.5	1.2
140°-150°	55.8	0.7
150°-160°	26.8	0.3
160°-170°	8.8	0.1
170°-180°	1.1	0.0
0°-30°	1707.0	21.8
0°-40°	2807.5	35.8
0°-60°	5063.3	64.6
0°-90°	6928.0	88.3
90°-120°	600.6	7.7
90°-150°	879.4	11.2
90°-180°	916.0	11.7
0°-180°	7844.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2184	2180	2161	2179	2173	207
15°	2093	2100	2098	2126	2126	590
25°	1910	1937	1960	2003	2004	880
35°	1660	1705	1762	1819	1835	1039
45°	1365	1436	1523	1592	1611	1052
55°	1038	1131	1240	1318	1345	929
65°	702	803	928	1020	1048	697
75°	365	472	610	707	746	388
85°	81	200	338	432	470	93
90°	1	113	239	329	361	5
95°	1	108	232	318	349	1
105°	1	93	218	300	326	1
115°	3	81	184	266	296	2
125°	3	68	157	227	255	2
135°	3	54	132	187	210	2
145°	3	39	91	141	158	2
155°	4	27	56	90	105	2
165°	4	18	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°	2178.8	2178.8	2178.8	2178.8	2178.8
2.5°	2193.5	2186.8	2164.0	2178.8	2172.0
5°	2184.1	2180.1	2161.3	2178.8	2173.4
7.5°	2169.4	2168.0	2153.2	2173.4	2168.0
10°	2149.2	2151.9	2139.8	2161.3	2157.3
12.5°	2123.7	2127.7	2122.3	2146.5	2143.8
15°	2092.8	2099.5	2098.2	2126.4	2126.4
17.5°	2055.2	2064.6	2070.0	2102.2	2102.2
20°	2010.9	2025.6	2036.4	2071.3	2076.7
22.5°	1966.5	1984.0	2000.1	2036.4	2044.4
25°	1910.1	1937.0	1959.8	2002.8	2004.1
27.5°	1855.0	1884.6	1915.5	1957.1	1961.2
30°	1794.6	1832.2	1869.8	1910.1	1922.2
32.5°	1730.1	1771.8	1813.4	1867.1	1883.2
35°	1660.3	1704.6	1762.4	1818.8	1834.9
37.5°	1590.4	1640.1	1707.3	1765.0	1779.8
40°	1519.2	1574.3	1649.5	1708.6	1726.1
42.5°	1440.0	1507.1	1587.7	1650.9	1671.0
45°	1364.7	1435.9	1523.3	1591.8	1610.6
47.5°	1285.5	1360.7	1454.7	1527.3	1548.8
50°	1200.9	1286.8	1387.6	1460.1	1480.3
52.5°	1121.6	1208.9	1315.0	1390.3	1418.5
55°	1038.3	1131.0	1239.8	1317.7	1344.6
57.5°	960.4	1049.1	1165.9	1243.9	1277.4
60°	871.8	969.8	1086.7	1171.3	1198.2
62.5°	788.5	887.9	1008.8	1096.1	1127.0
65°	702.5	803.3	928.2	1019.5	1047.7
67.5°	621.9	721.3	848.9	938.9	975.2
70°	533.3	638.0	768.3	861.0	891.9
72.5°	446.0	554.8	687.7	787.1	822.1
75°	365.4	471.5	609.8	706.6	745.5
77.5°	287.5	394.9	534.6	634.0	667.6
80°	209.5	322.4	464.8	562.8	595.1
82.5°	138.4	256.6	397.6	495.7	530.6
85°	80.6	200.1	338.5	432.5	470.1
87.5°	34.9	151.8	283.4	376.1	407.0
90°	1.3	112.8	239.1	329.1	361.3
92.5°	1.3	110.1	233.7	322.4	353.3
95°	1.3	107.5	232.4	318.4	349.2
97.5°	1.3	106.1	229.7	315.7	345.2
100°	1.3	102.1	225.7	310.3	339.8
102.5°	1.3	96.7	221.6	304.9	333.1
105°	1.3	92.7	217.6	299.5	326.4
107.5°	1.3	88.7	210.9	292.8	319.7
110°	1.3	84.6	200.1	286.1	313.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	83.3	192.1	276.7	304.9
115°	2.7	80.6	184.0	266.0	295.5
117.5°	2.7	79.3	177.3	255.2	286.1
120°	2.7	75.2	170.6	245.8	275.4
122.5°	2.7	71.2	163.9	236.4	266.0
125°	2.7	68.5	157.2	227.0	255.2
127.5°	2.7	64.5	151.8	217.6	243.1
130°	2.7	61.8	145.1	206.9	232.4
132.5°	2.7	57.8	138.4	196.1	220.3
135°	2.7	53.7	131.6	186.7	209.5
137.5°	2.7	48.4	123.6	176.0	197.5
140°	2.7	44.3	112.8	165.2	185.4
142.5°	2.7	41.6	102.1	153.1	171.9
145°	2.7	39.0	91.3	141.0	158.5
147.5°	2.7	36.3	81.9	129.0	145.1
150°	2.7	32.2	72.5	118.2	131.6
152.5°	4.0	29.6	64.5	104.8	118.2
155°	4.0	26.9	56.4	90.0	104.8
157.5°	4.0	24.2	48.4	75.2	91.3
160°	4.0	21.5	41.6	61.8	77.9
162.5°	4.0	20.1	36.3	51.0	65.8
165°	4.0	17.5	30.9	41.6	53.7
167.5°	4.0	13.4	25.5	32.2	44.3
170°	4.0	10.7	20.1	22.8	33.6
172.5°	4.0	8.1	14.8	16.1	17.5
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)