

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: P566923

Luminaire Tested: **4SNX-87HL-LN-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-87HL-LN-UNV-L935-CD  
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

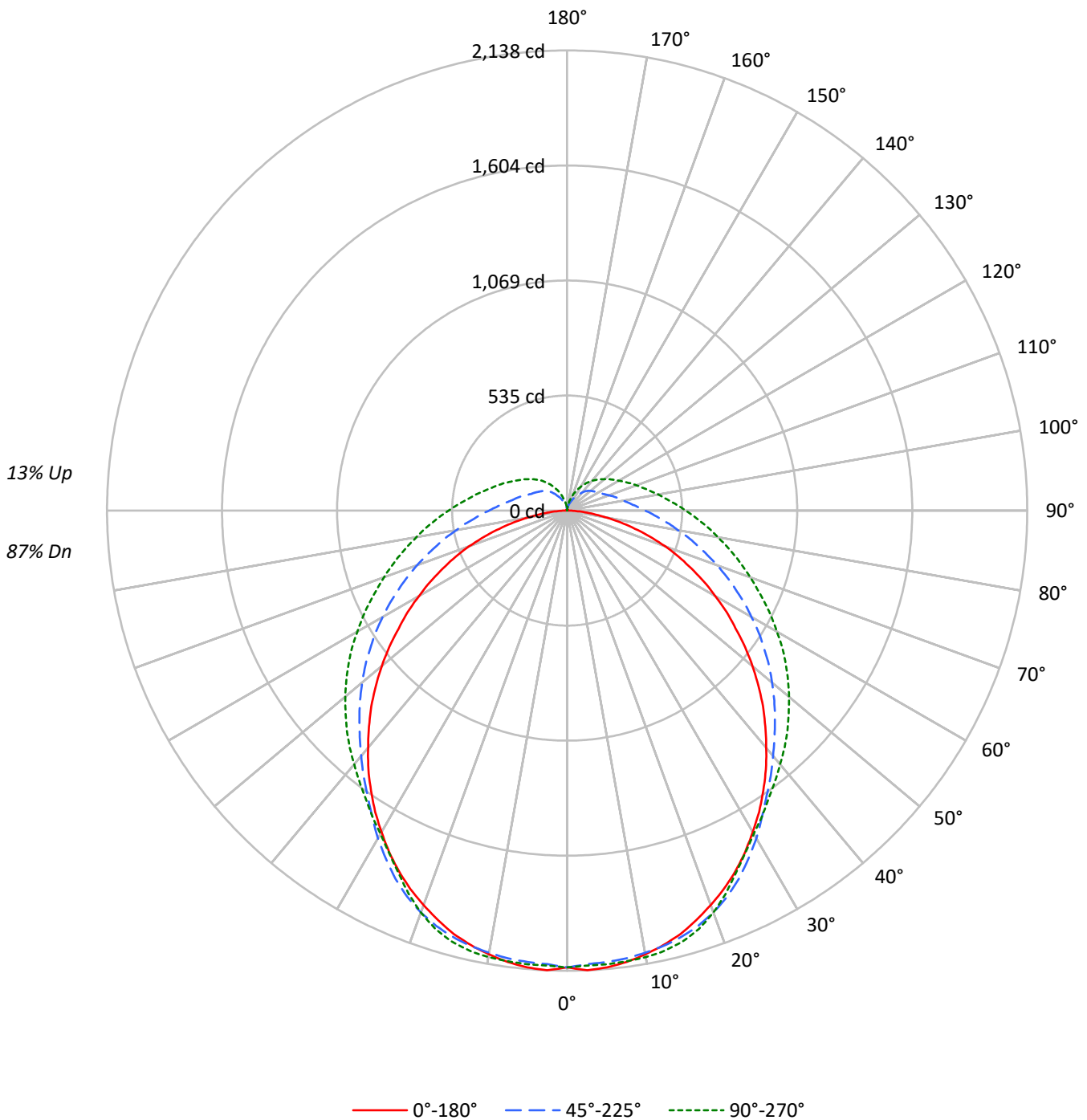
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7661.0 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
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	104	104	104		96	96	96		90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81		82	79	76		76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66		71	66	62		66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54		62	56	52		58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46		55	49	44		51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40		49	43	38		46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35		44	38	33		42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30		41	34	29		38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27		37	31	26		35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24		34	28	24		32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22		32	26	21		30	25	21	19

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

	0°	45°	90°
0°	22843	22843	22843
5°	22931	21794	21600
10°	22717	20949	20604
15°	22443	20149	19599
20°	22012	19253	18318
25°	21547	18170	16816
30°	20934	16955	15561
35°	20280	15718	14625
40°	19538	14725	13868
45°	18809	13844	13215
50°	17944	13034	12557
55°	16931	12220	11912
60°	15961	11409	11238
65°	14879	10590	10620
70°	13645	9822	10062
75°	11733	9073	9602
80°	9246	8427	9211
85°	6191	7967	8987



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.6	2.6
10°-20°	579.7	7.6
20°-30°	863.1	11.3
30°-40°	1018.5	13.3
40°-50°	1062.2	13.9
50°-60°	998.2	13.0
60°-70°	842.9	11.0
70°-80°	636.9	8.3
80°-90°	439.0	5.7
90°-100°	307.2	4.0
100°-110°	229.3	3.0
110°-120°	172.8	2.3
120°-130°	128.9	1.7
130°-140°	90.5	1.2
140°-150°	54.7	0.7
150°-160°	26.2	0.3
160°-170°	8.4	0.1
170°-180°	1.0	0.0
0°-30°	1644.4	21.5
0°-40°	2662.9	34.8
0°-60°	4723.2	61.7
0°-90°	6642.0	86.7
90°-120°	709.3	9.3
90°-150°	983.4	12.8
90°-180°	1019.0	13.3
0°-180°	7661.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2122	2122	2122	2122	2122	
5°	2130	2126	2105	2121	2116	202
15°	2036	2046	2051	2077	2073	573
25°	1850	1887	1887	1870	1856	851
35°	1588	1647	1616	1629	1633	993
45°	1287	1351	1365	1421	1447	991
55°	956	1038	1117	1207	1239	858
65°	636	738	862	975	1013	632
75°	326	452	626	757	805	347
85°	74	232	434	577	627	83
90°	1	165	362	501	551	5
95°	1	129	306	439	484	1
105°	3	92	236	343	382	3
115°	3	79	183	273	308	3
125°	4	68	155	223	252	3
135°	4	52	129	182	204	3
145°	5	38	90	139	156	3
155°	5	25	54	88	103	2
165°	6	16	29	39	52	2
175°	6	6	8	8	4	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2122.2	2122.2	2122.2	2122.2	2122.2
2.5°	2137.8	2132.6	2109.3	2122.2	2115.7
5°	2130.0	2126.1	2105.4	2120.9	2115.7
7.5°	2115.7	2114.4	2098.9	2117.0	2111.8
10°	2093.7	2097.6	2085.9	2110.6	2106.7
12.5°	2067.7	2075.5	2071.6	2098.9	2095.0
15°	2036.5	2045.6	2050.8	2076.8	2072.9
17.5°	1995.0	2011.8	2023.5	2044.3	2037.8
20°	1950.8	1974.2	1987.2	1997.6	1987.2
22.5°	1902.7	1933.9	1941.7	1936.5	1926.1
25°	1849.5	1887.2	1887.2	1870.3	1856.0
27.5°	1789.7	1836.5	1823.5	1804.0	1792.3
30°	1724.8	1780.7	1758.6	1736.5	1733.9
32.5°	1659.9	1718.3	1685.8	1680.6	1684.5
35°	1588.4	1646.9	1615.7	1628.7	1632.6
37.5°	1517.0	1575.4	1554.7	1574.1	1585.8
40°	1439.1	1501.4	1488.4	1523.5	1539.1
42.5°	1362.4	1427.4	1426.1	1471.5	1494.9
45°	1287.1	1350.8	1365.0	1420.9	1446.9
47.5°	1205.3	1270.2	1305.3	1370.2	1396.2
50°	1124.8	1194.9	1243.0	1315.7	1345.6
52.5°	1041.6	1115.7	1181.9	1262.4	1293.6
55°	955.9	1037.7	1117.0	1206.6	1239.1
57.5°	879.3	962.4	1055.9	1148.1	1185.8
60°	794.9	887.1	989.7	1087.1	1124.8
62.5°	718.2	813.0	927.3	1029.9	1070.2
65°	636.4	737.7	862.4	975.4	1013.1
67.5°	561.1	665.0	801.4	915.7	957.2
70°	483.2	593.6	741.6	862.4	905.3
72.5°	402.6	519.5	681.9	810.5	854.6
75°	326.0	452.0	626.0	757.2	805.3
77.5°	254.6	387.0	575.4	710.4	757.2
80°	184.4	328.6	522.1	662.4	710.4
82.5°	122.1	277.9	479.3	619.5	670.2
85°	74.0	232.5	433.8	576.7	627.3
87.5°	33.8	194.8	397.4	539.0	588.4
90°	1.3	164.9	362.4	501.3	550.7
92.5°	1.3	144.2	333.8	468.9	516.9
95°	1.3	128.6	306.5	439.0	484.5
97.5°	1.3	118.2	285.7	410.4	454.6
100°	1.3	107.8	265.0	384.4	429.9
102.5°	2.6	98.7	249.4	361.1	403.9
105°	2.6	92.2	236.4	342.9	381.8
107.5°	2.6	88.3	222.1	324.7	361.1
110°	2.6	84.4	206.5	306.5	342.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	81.8	194.8	290.9	326.0
115°	2.6	79.2	183.1	272.7	307.8
117.5°	2.6	77.9	176.6	258.5	292.2
120°	3.9	74.0	168.8	245.5	277.9
122.5°	3.9	70.1	161.1	235.1	263.7
125°	3.9	67.5	154.6	223.4	252.0
127.5°	3.9	63.6	148.1	213.0	239.0
130°	3.9	59.7	142.9	202.6	227.3
132.5°	3.9	55.8	136.4	192.2	215.6
135°	3.9	52.0	128.6	181.8	203.9
137.5°	3.9	48.1	120.8	171.4	192.2
140°	3.9	44.2	110.4	161.1	180.5
142.5°	3.9	40.3	100.0	150.7	167.5
145°	5.2	37.7	89.6	139.0	155.9
147.5°	5.2	33.8	79.2	127.3	141.6
150°	5.2	31.2	71.4	115.6	128.6
152.5°	5.2	27.3	63.6	102.6	115.6
155°	5.2	24.7	54.5	88.3	102.6
157.5°	5.2	22.1	46.8	74.0	89.6
160°	5.2	20.8	40.3	61.0	76.6
162.5°	6.5	18.2	33.8	49.4	63.6
165°	6.5	15.6	28.6	39.0	52.0
167.5°	6.5	13.0	23.4	29.9	40.3
170°	6.5	10.4	18.2	20.8	31.2
172.5°	6.5	7.8	13.0	14.3	15.6
175°	6.5	6.5	7.8	7.8	3.9
177.5°	6.5	6.5	5.2	3.9	1.3
180°	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)