

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: P566918

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566918
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-L830-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

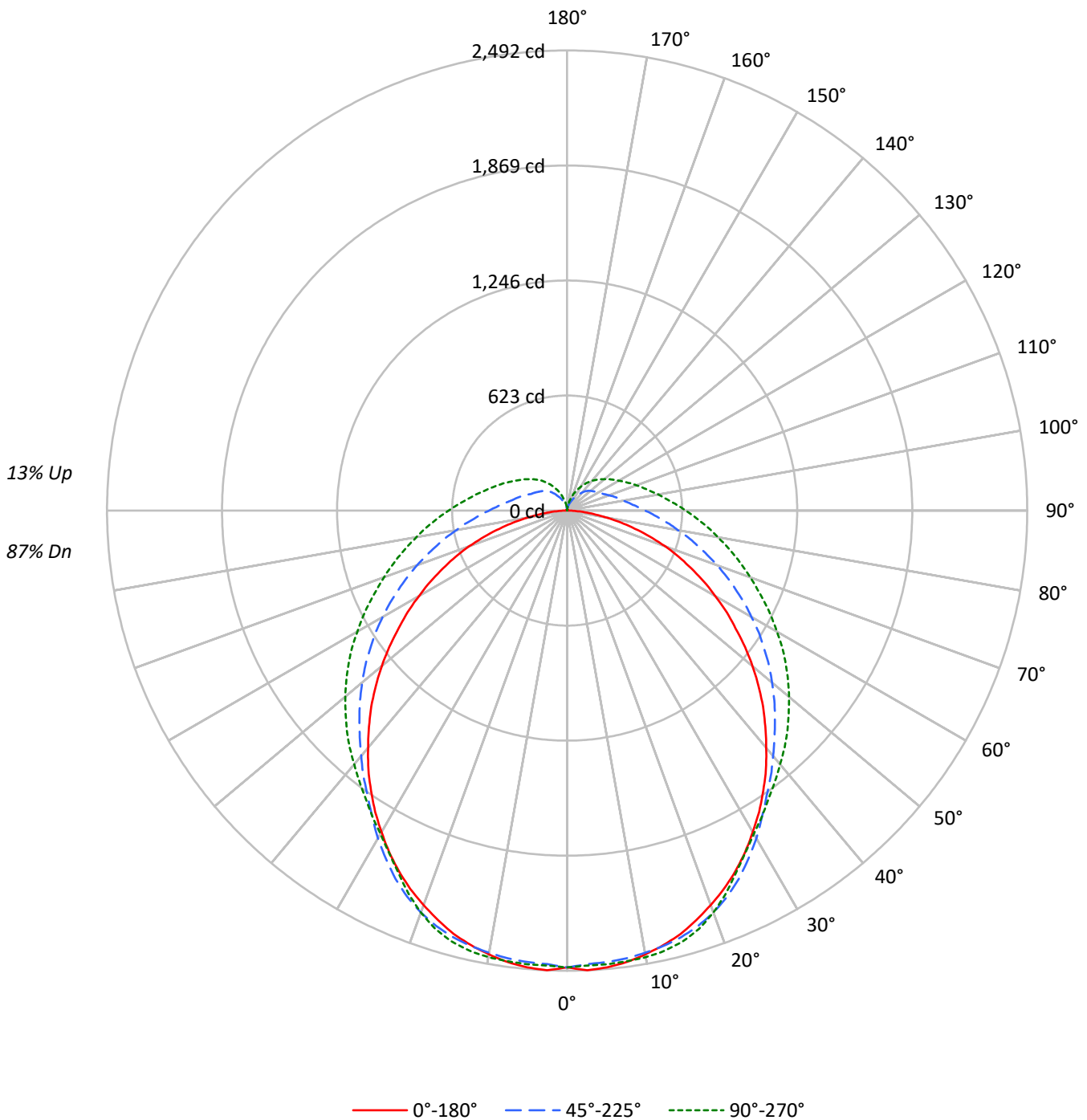
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8930.0 lumens
Efficiency: N/A
Efficacy: 143.6 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 (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	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°	26628	26628	26628
5°	26730	25403	25179
10°	26480	24419	24016
15°	26162	23487	22844
20°	25658	22441	21352
25°	25116	21180	19601
30°	24402	19763	18139
35°	23640	18321	17048
40°	22773	17165	16165
45°	21925	16138	15403
50°	20917	15192	14636
55°	19737	14244	13885
60°	18603	13298	13099
65°	17344	12345	12379
70°	15904	11450	11728
75°	13677	10577	11191
80°	10780	9823	10737
85°	7220	9287	10476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.0	2.6
10°-20°	675.7	7.6
20°-30°	1006.1	11.3
30°-40°	1187.2	13.3
40°-50°	1238.1	13.9
50°-60°	1163.5	13.0
60°-70°	982.6	11.0
70°-80°	742.4	8.3
80°-90°	511.8	5.7
90°-100°	358.1	4.0
100°-110°	267.2	3.0
110°-120°	201.5	2.3
120°-130°	150.2	1.7
130°-140°	105.5	1.2
140°-150°	63.8	0.7
150°-160°	30.5	0.3
160°-170°	9.8	0.1
170°-180°	1.2	0.0
0°-30°	1916.8	21.5
0°-40°	3104.0	34.8
0°-60°	5505.5	61.7
0°-90°	7742.3	86.7
90°-120°	826.8	9.3
90°-150°	1146.3	12.8
90°-180°	1188.0	13.3
0°-180°	8930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2474	2474	2474	2474	2474	
5°	2483	2478	2454	2472	2466	236
15°	2374	2384	2390	2421	2416	668
25°	2156	2200	2200	2180	2163	992
35°	1852	1920	1883	1898	1903	1158
45°	1500	1574	1591	1656	1686	1155
55°	1114	1210	1302	1406	1444	1000
65°	742	860	1005	1137	1181	737
75°	380	527	730	883	939	405
85°	86	271	506	672	731	97
90°	2	192	422	584	642	6
95°	2	150	357	512	565	1
105°	3	108	276	400	445	3
115°	3	92	214	318	359	3
125°	4	79	180	260	294	4
135°	4	61	150	212	238	3
145°	6	44	104	162	182	3
155°	6	29	64	103	120	3
165°	8	18	33	45	61	2
175°	8	8	9	9	4	1
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-87HL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2473.8	2473.8	2473.8	2473.8	2473.8
2.5°	2491.9	2485.9	2458.6	2473.8	2466.2
5°	2482.9	2478.3	2454.1	2472.3	2466.2
7.5°	2466.2	2464.7	2446.5	2467.7	2461.7
10°	2440.5	2445.0	2431.4	2460.2	2455.6
12.5°	2410.2	2419.3	2414.7	2446.5	2442.0
15°	2373.9	2384.5	2390.5	2420.8	2416.2
17.5°	2325.4	2345.1	2358.7	2382.9	2375.4
20°	2273.9	2301.2	2316.3	2328.4	2316.3
22.5°	2217.9	2254.3	2263.3	2257.3	2245.2
25°	2155.8	2199.8	2199.8	2180.1	2163.4
27.5°	2086.2	2140.7	2125.6	2102.9	2089.2
30°	2010.5	2075.6	2049.9	2024.1	2021.1
32.5°	1934.8	2002.9	1965.1	1959.0	1963.6
35°	1851.5	1919.7	1883.3	1898.5	1903.0
37.5°	1768.3	1836.4	1812.2	1834.9	1848.5
40°	1677.4	1750.1	1735.0	1775.9	1794.0
42.5°	1588.1	1663.8	1662.3	1715.3	1742.5
45°	1500.3	1574.5	1591.1	1656.2	1686.5
47.5°	1404.9	1480.6	1521.5	1597.2	1627.5
50°	1311.1	1392.8	1448.8	1533.6	1568.4
52.5°	1214.2	1300.5	1377.7	1471.5	1507.9
55°	1114.3	1209.6	1302.0	1406.4	1444.3
57.5°	1024.9	1121.8	1230.8	1338.3	1382.2
60°	926.5	1034.0	1153.6	1267.2	1311.1
62.5°	837.2	947.7	1081.0	1200.6	1247.5
65°	741.8	859.9	1005.3	1137.0	1180.9
67.5°	654.0	775.1	934.1	1067.3	1115.8
70°	563.2	691.9	864.5	1005.3	1055.2
72.5°	469.3	605.6	794.8	944.7	996.2
75°	380.0	526.9	729.7	882.6	938.6
77.5°	296.7	451.2	670.7	828.1	882.6
80°	215.0	383.0	608.6	772.1	828.1
82.5°	142.3	324.0	558.6	722.1	781.2
85°	86.3	271.0	505.7	672.2	731.2
87.5°	39.4	227.1	463.3	628.3	685.8
90°	1.5	192.3	422.4	584.4	641.9
92.5°	1.5	168.0	389.1	546.5	602.5
95°	1.5	149.9	357.3	511.7	564.7
97.5°	1.5	137.8	333.1	478.4	529.9
100°	1.5	125.7	308.8	448.1	501.1
102.5°	3.0	115.1	290.7	420.9	470.8
105°	3.0	107.5	275.5	399.7	445.1
107.5°	3.0	102.9	258.9	378.5	420.9
110°	3.0	98.4	240.7	357.3	399.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	95.4	227.1	339.1	380.0
115°	3.0	92.4	213.5	317.9	358.8
117.5°	3.0	90.8	205.9	301.3	340.6
120°	4.5	86.3	196.8	286.1	324.0
122.5°	4.5	81.8	187.7	274.0	307.3
125°	4.5	78.7	180.2	260.4	293.7
127.5°	4.5	74.2	172.6	248.3	278.6
130°	4.5	69.6	166.5	236.2	264.9
132.5°	4.5	65.1	159.0	224.1	251.3
135°	4.5	60.6	149.9	212.0	237.7
137.5°	4.5	56.0	140.8	199.8	224.1
140°	4.5	51.5	128.7	187.7	210.4
142.5°	4.5	46.9	116.6	175.6	195.3
145°	6.1	43.9	104.5	162.0	181.7
147.5°	6.1	39.4	92.4	148.4	165.0
150°	6.1	36.3	83.3	134.7	149.9
152.5°	6.1	31.8	74.2	119.6	134.7
155°	6.1	28.8	63.6	102.9	119.6
157.5°	6.1	25.7	54.5	86.3	104.5
160°	6.1	24.2	46.9	71.2	89.3
162.5°	7.6	21.2	39.4	57.5	74.2
165°	7.6	18.2	33.3	45.4	60.6
167.5°	7.6	15.1	27.3	34.8	46.9
170°	7.6	12.1	21.2	24.2	36.3
172.5°	7.6	9.1	15.1	16.7	18.2
175°	7.6	7.6	9.1	9.1	4.5
177.5°	7.6	7.6	6.1	4.5	1.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)