

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: P566931

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566931
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-LW-UNV-L935-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

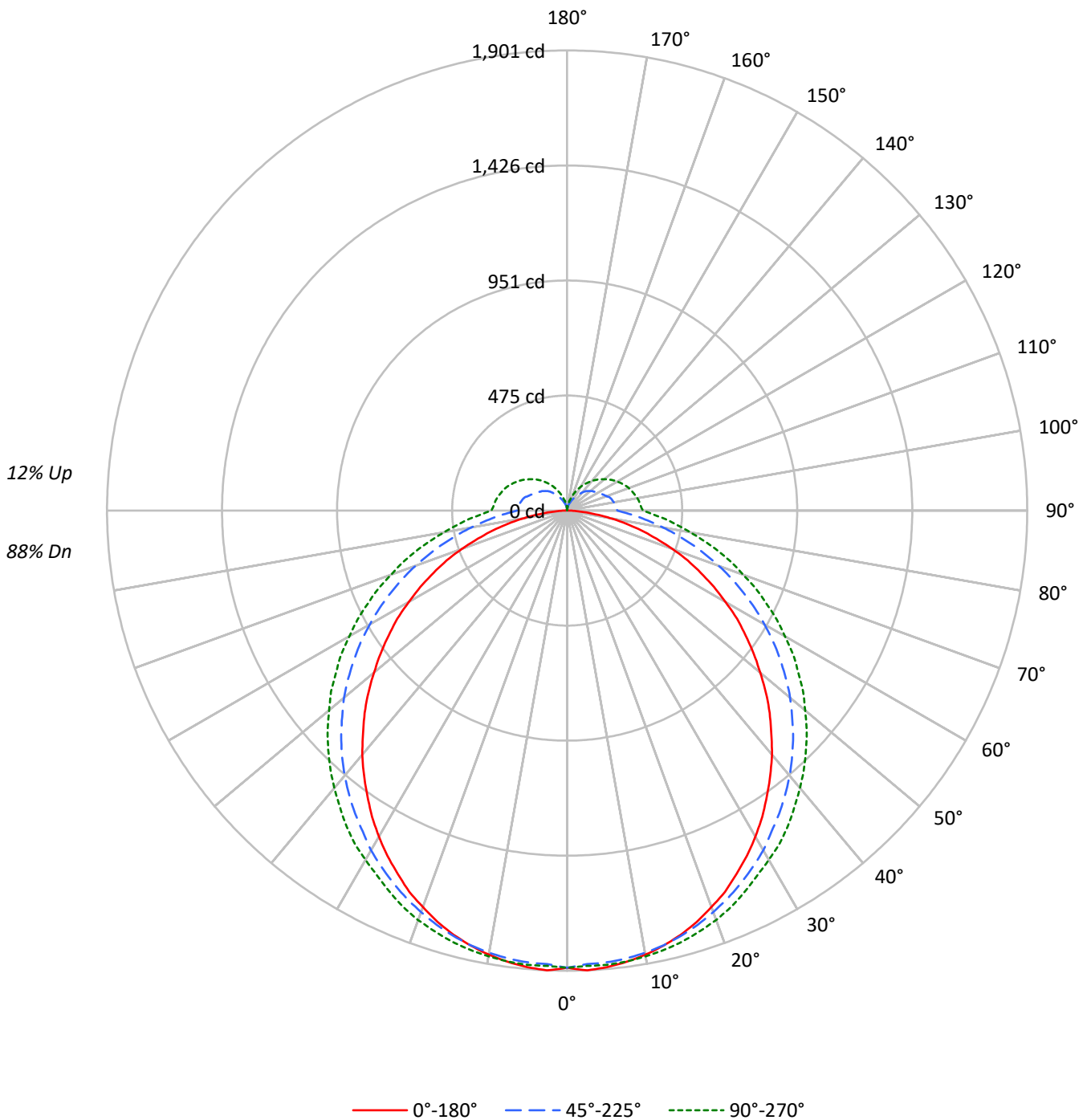
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6799.0 lumens
Efficiency: N/A
Efficacy: 109.3 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): 62.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	20328	20328	20328
5°	20382	19392	19233
10°	20213	18627	18288
15°	19991	17868	17426
20°	19667	17101	16592
25°	19288	16355	15738
30°	18879	15625	14953
35°	18374	14861	14247
40°	17878	14145	13481
45°	17286	13391	12750
50°	16606	12612	11973
55°	15941	11758	11204
60°	15171	10858	10377
65°	14236	9879	9520
70°	13052	8821	8592
75°	11399	7662	7705
80°	9105	6501	6688
85°	5848	5388	5838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	2.6
10°-20°	515.7	7.6
20°-30°	784.6	11.5
30°-40°	953.9	14.0
40°-50°	1009.2	14.8
50°-60°	946.0	13.9
60°-70°	778.3	11.4
70°-80°	538.5	7.9
80°-90°	299.4	4.4
90°-100°	197.3	2.9
100°-110°	176.9	2.6
110°-120°	146.4	2.2
120°-130°	113.2	1.7
130°-140°	80.1	1.2
140°-150°	48.3	0.7
150°-160°	23.2	0.3
160°-170°	7.6	0.1
170°-180°	0.9	0.0
0°-30°	1479.6	21.8
0°-40°	2433.5	35.8
0°-60°	4388.8	64.6
0°-90°	6005.0	88.3
90°-120°	520.6	7.7
90°-150°	762.2	11.2
90°-180°	794.0	11.7
0°-180°	6799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1893	1890	1873	1888	1884	180
15°	1814	1820	1819	1843	1843	511
25°	1656	1679	1699	1736	1737	763
35°	1439	1478	1528	1576	1590	901
45°	1183	1245	1320	1380	1396	912
55°	900	980	1075	1142	1166	806
65°	609	696	804	884	908	604
75°	317	409	529	612	646	336
85°	70	174	293	375	408	80
90°	1	98	207	285	313	5
95°	1	93	201	276	303	1
105°	1	80	189	260	283	1
115°	2	70	160	230	256	2
125°	2	59	136	197	221	2
135°	2	47	114	162	182	2
145°	2	34	79	122	137	1
155°	4	23	49	78	91	2
165°	4	15	27	36	47	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1888.5	1888.5	1888.5	1888.5	1888.5
2.5°	1901.3	1895.5	1875.7	1888.5	1882.7
5°	1893.2	1889.7	1873.4	1888.5	1883.8
7.5°	1880.3	1879.2	1866.4	1883.8	1879.2
10°	1862.9	1865.2	1854.7	1873.4	1869.9
12.5°	1840.8	1844.3	1839.6	1860.6	1858.2
15°	1814.0	1819.8	1818.6	1843.1	1843.1
17.5°	1781.4	1789.5	1794.2	1822.1	1822.1
20°	1743.0	1755.8	1765.1	1795.4	1800.0
22.5°	1704.5	1719.7	1733.6	1765.1	1772.1
25°	1655.6	1678.9	1698.7	1736.0	1737.1
27.5°	1607.9	1633.5	1660.3	1696.4	1699.9
30°	1555.5	1588.1	1620.7	1655.6	1666.1
32.5°	1499.6	1535.7	1571.8	1618.4	1632.4
35°	1439.1	1477.5	1527.6	1576.5	1590.4
37.5°	1378.5	1421.6	1479.8	1529.9	1542.7
40°	1316.8	1364.6	1429.8	1481.0	1496.1
42.5°	1248.1	1306.3	1376.2	1430.9	1448.4
45°	1182.9	1244.6	1320.3	1379.7	1396.0
47.5°	1114.2	1179.4	1260.9	1323.8	1342.4
50°	1040.9	1115.4	1202.7	1265.6	1283.1
52.5°	972.2	1047.9	1139.9	1205.1	1229.5
55°	900.0	980.3	1074.7	1142.2	1165.5
57.5°	832.5	909.3	1010.6	1078.1	1107.3
60°	755.6	840.6	941.9	1015.3	1038.6
62.5°	683.4	769.6	874.4	950.1	976.9
65°	608.9	696.3	804.5	883.7	908.2
67.5°	539.1	625.2	735.8	813.8	845.3
70°	462.2	553.0	666.0	746.3	773.1
72.5°	386.5	480.9	596.1	682.3	712.6
75°	316.7	408.7	528.6	612.4	646.2
77.5°	249.2	342.3	463.4	549.6	578.7
80°	181.6	279.4	402.8	487.8	515.8
82.5°	119.9	222.4	344.6	429.6	459.9
85°	69.9	173.5	293.4	374.9	407.5
87.5°	30.3	131.6	245.7	326.0	352.8
90°	1.2	97.8	207.2	285.3	313.2
92.5°	1.2	95.5	202.6	279.4	306.2
95°	1.2	93.1	201.4	275.9	302.7
97.5°	1.2	92.0	199.1	273.6	299.2
100°	1.2	88.5	195.6	269.0	294.6
102.5°	1.2	83.8	192.1	264.3	288.7
105°	1.2	80.3	188.6	259.6	282.9
107.5°	1.2	76.8	182.8	253.8	277.1
110°	1.2	73.4	173.5	248.0	271.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	72.2	166.5	239.8	264.3
115°	2.3	69.9	159.5	230.5	256.1
117.5°	2.3	68.7	153.7	221.2	248.0
120°	2.3	65.2	147.9	213.1	238.7
122.5°	2.3	61.7	142.0	204.9	230.5
125°	2.3	59.4	136.2	196.8	221.2
127.5°	2.3	55.9	131.6	188.6	210.7
130°	2.3	53.6	125.7	179.3	201.4
132.5°	2.3	50.1	119.9	170.0	190.9
135°	2.3	46.6	114.1	161.8	181.6
137.5°	2.3	41.9	107.1	152.5	171.2
140°	2.3	38.4	97.8	143.2	160.7
142.5°	2.3	36.1	88.5	132.7	149.0
145°	2.3	33.8	79.2	122.3	137.4
147.5°	2.3	31.4	71.0	111.8	125.7
150°	2.3	27.9	62.9	102.5	114.1
152.5°	3.5	25.6	55.9	90.8	102.5
155°	3.5	23.3	48.9	78.0	90.8
157.5°	3.5	21.0	41.9	65.2	79.2
160°	3.5	18.6	36.1	53.6	67.5
162.5°	3.5	17.5	31.4	44.2	57.1
165°	3.5	15.1	26.8	36.1	46.6
167.5°	3.5	11.6	22.1	27.9	38.4
170°	3.5	9.3	17.5	19.8	29.1
172.5°	3.5	7.0	12.8	14.0	15.1
175°	3.5	5.8	8.2	8.2	4.7
177.5°	3.5	4.7	4.7	4.7	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)