

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: P567020

Luminaire Tested: **4SNX-93HL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567020
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-93HL-LN-UNV-L940-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

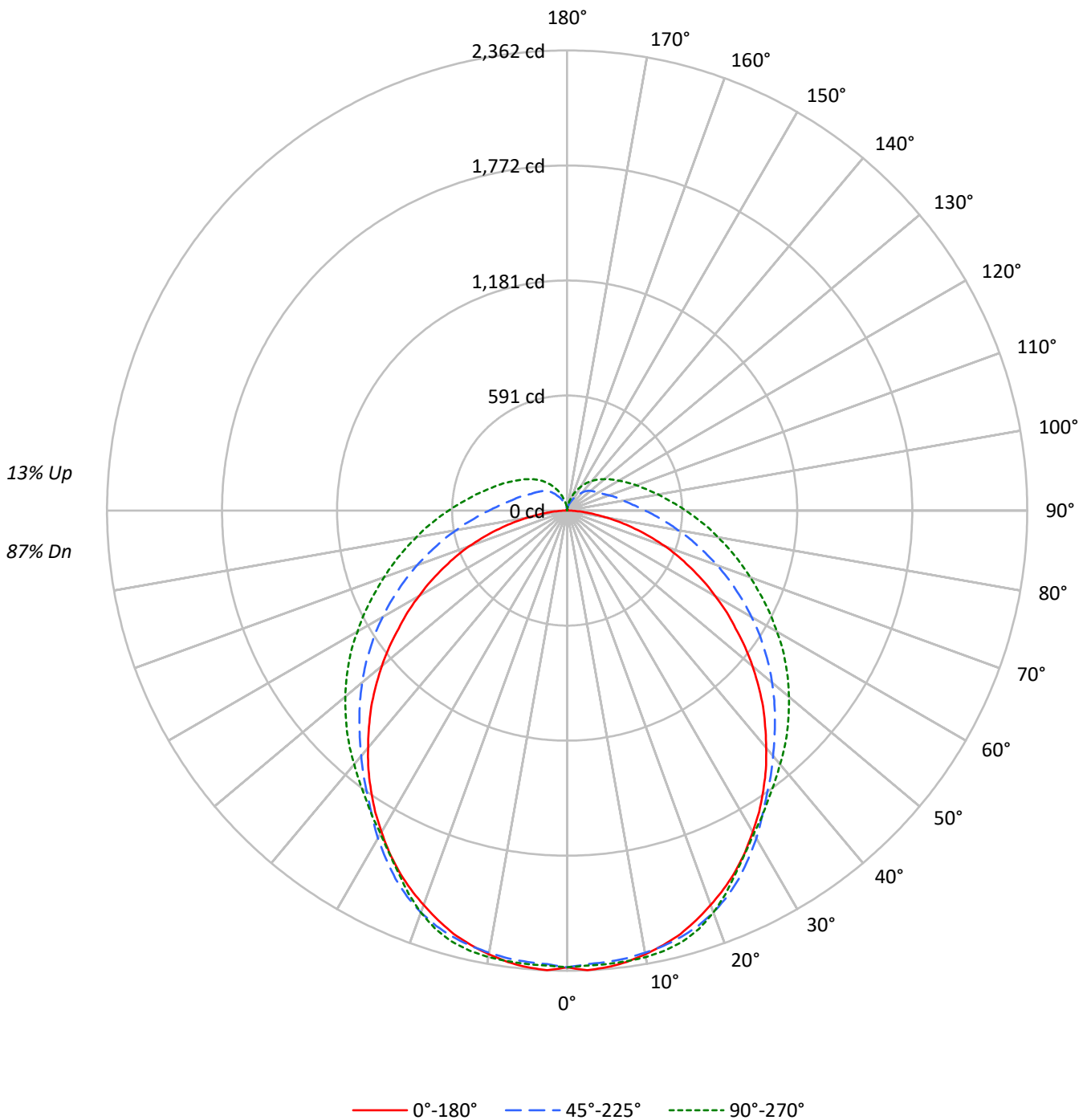
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8463.0 lumens
Efficiency: N/A
Efficacy: 125.6 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): 67.4
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

TEST NUMBER: P567020
CATALOG NUMBER: 4SNX-93HL-LN-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567020

CATALOG NUMBER: 4SNX-93HL-LN-UNV-L940-CD

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°	25235	25235	25235
5°	25332	24075	23862
10°	25094	23141	22761
15°	24793	22259	21650
20°	24316	21268	20235
25°	23803	20071	18576
30°	23126	18730	17190
35°	22404	17363	16156
40°	21583	16267	15320
45°	20779	15294	14598
50°	19822	14399	13870
55°	18704	13499	13159
60°	17631	12603	12414
65°	16436	11699	11731
70°	15071	10851	11114
75°	12961	10024	10607
80°	10213	9309	10175
85°	6843	8800	9929



TEST NUMBER: P567020

CATALOG NUMBER: 4SNX-93HL-LN-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	2.6
10°-20°	640.3	7.6
20°-30°	953.5	11.3
30°-40°	1125.1	13.3
40°-50°	1173.3	13.9
50°-60°	1102.6	13.0
60°-70°	931.2	11.0
70°-80°	703.6	8.3
80°-90°	485.0	5.7
90°-100°	339.4	4.0
100°-110°	253.3	3.0
110°-120°	190.9	2.3
120°-130°	142.4	1.7
130°-140°	99.9	1.2
140°-150°	60.4	0.7
150°-160°	28.9	0.3
160°-170°	9.3	0.1
170°-180°	1.1	0.0
0°-30°	1816.6	21.5
0°-40°	2941.6	34.8
0°-60°	5217.6	61.7
0°-90°	7337.4	86.7
90°-120°	783.6	9.3
90°-150°	1086.4	12.8
90°-180°	1126.0	13.3
0°-180°	8463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2344	2344	2344	2344	2344	
5°	2353	2349	2326	2343	2337	223
15°	2250	2260	2266	2294	2290	633
25°	2043	2085	2085	2066	2050	940
35°	1755	1819	1785	1799	1804	1097
45°	1422	1492	1508	1570	1598	1095
55°	1056	1146	1234	1333	1369	948
65°	703	815	953	1078	1119	698
75°	360	499	692	836	890	383
85°	82	257	479	637	693	92
90°	1	182	400	554	608	6
95°	1	142	339	485	535	1
105°	3	102	261	379	422	3
115°	3	88	202	301	340	3
125°	4	75	171	247	278	4
135°	4	57	142	201	225	3
145°	6	42	99	154	172	3
155°	6	27	60	98	113	3
165°	7	17	32	43	57	2
175°	7	7	9	9	4	1
180°	4	4	4	4	4	



TEST NUMBER: P567020

CATALOG NUMBER: 4SNX-93HL-LN-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2344.4	2344.4	2344.4	2344.4	2344.4
2.5°	2361.6	2355.9	2330.1	2344.4	2337.2
5°	2353.0	2348.7	2325.8	2343.0	2337.2
7.5°	2337.2	2335.8	2318.6	2338.7	2332.9
10°	2312.8	2317.1	2304.2	2331.5	2327.2
12.5°	2284.1	2292.8	2288.5	2318.6	2314.3
15°	2249.7	2259.8	2265.5	2294.2	2289.9
17.5°	2203.8	2222.5	2235.4	2258.3	2251.1
20°	2155.0	2180.8	2195.2	2206.7	2195.2
22.5°	2101.9	2136.4	2145.0	2139.2	2127.8
25°	2043.1	2084.7	2084.7	2066.1	2050.3
27.5°	1977.1	2028.8	2014.4	1992.9	1980.0
30°	1905.4	1967.1	1942.7	1918.3	1915.4
32.5°	1833.6	1898.2	1862.3	1856.6	1860.9
35°	1754.7	1819.3	1784.8	1799.2	1803.5
37.5°	1675.8	1740.4	1717.4	1738.9	1751.8
40°	1589.7	1658.6	1644.2	1683.0	1700.2
42.5°	1505.1	1576.8	1575.4	1625.6	1651.4
45°	1421.9	1492.2	1507.9	1569.6	1598.3
47.5°	1331.5	1403.2	1441.9	1513.7	1542.4
50°	1242.5	1320.0	1373.1	1453.4	1486.4
52.5°	1150.7	1232.5	1305.6	1394.6	1429.0
55°	1056.0	1146.4	1233.9	1332.9	1368.8
57.5°	971.3	1063.2	1166.5	1268.3	1309.9
60°	878.1	979.9	1093.3	1200.9	1242.5
62.5°	793.4	898.2	1024.4	1137.8	1182.2
65°	703.0	814.9	952.7	1077.5	1119.1
67.5°	619.8	734.6	885.3	1011.5	1057.4
70°	533.7	655.7	819.3	952.7	1000.0
72.5°	444.8	573.9	753.3	895.3	944.1
75°	360.1	499.3	691.6	836.5	889.6
77.5°	281.2	427.6	635.6	784.8	836.5
80°	203.7	363.0	576.8	731.7	784.8
82.5°	134.9	307.0	529.4	684.4	740.3
85°	81.8	256.8	479.2	637.0	693.0
87.5°	37.3	215.2	439.0	595.4	649.9
90°	1.4	182.2	400.3	553.8	608.3
92.5°	1.4	159.3	368.7	518.0	571.0
95°	1.4	142.0	338.6	485.0	535.2
97.5°	1.4	130.6	315.6	453.4	502.2
100°	1.4	119.1	292.7	424.7	474.9
102.5°	2.9	109.0	275.5	398.9	446.2
105°	2.9	101.9	261.1	378.8	421.8
107.5°	2.9	97.6	245.3	358.7	398.9
110°	2.9	93.3	228.1	338.6	378.8



TEST NUMBER: P567020

CATALOG NUMBER: 4SNX-93HL-LN-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	90.4	215.2	321.4	360.1
115°	2.9	87.5	202.3	301.3	340.0
117.5°	2.9	86.1	195.1	285.5	322.8
120°	4.3	81.8	186.5	271.2	307.0
122.5°	4.3	77.5	177.9	259.7	291.3
125°	4.3	74.6	170.7	246.8	278.3
127.5°	4.3	70.3	163.6	235.3	264.0
130°	4.3	66.0	157.8	223.8	251.1
132.5°	4.3	61.7	150.7	212.3	238.2
135°	4.3	57.4	142.0	200.9	225.3
137.5°	4.3	53.1	133.4	189.4	212.3
140°	4.3	48.8	122.0	177.9	199.4
142.5°	4.3	44.5	110.5	166.4	185.1
145°	5.7	41.6	99.0	153.5	172.2
147.5°	5.7	37.3	87.5	140.6	156.4
150°	5.7	34.4	78.9	127.7	142.0
152.5°	5.7	30.1	70.3	113.3	127.7
155°	5.7	27.3	60.3	97.6	113.3
157.5°	5.7	24.4	51.7	81.8	99.0
160°	5.7	23.0	44.5	67.4	84.7
162.5°	7.2	20.1	37.3	54.5	70.3
165°	7.2	17.2	31.6	43.0	57.4
167.5°	7.2	14.3	25.8	33.0	44.5
170°	7.2	11.5	20.1	23.0	34.4
172.5°	7.2	8.6	14.3	15.8	17.2
175°	7.2	7.2	8.6	8.6	4.3
177.5°	7.2	7.2	5.7	4.3	1.4
180°	4.3	4.3	4.3	4.3	4.3

(END OF REPORT)