

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: P567034

Luminaire Tested: **4SNX-93HL-SLW-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567034
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-93HL-SLW-UNV-L930-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

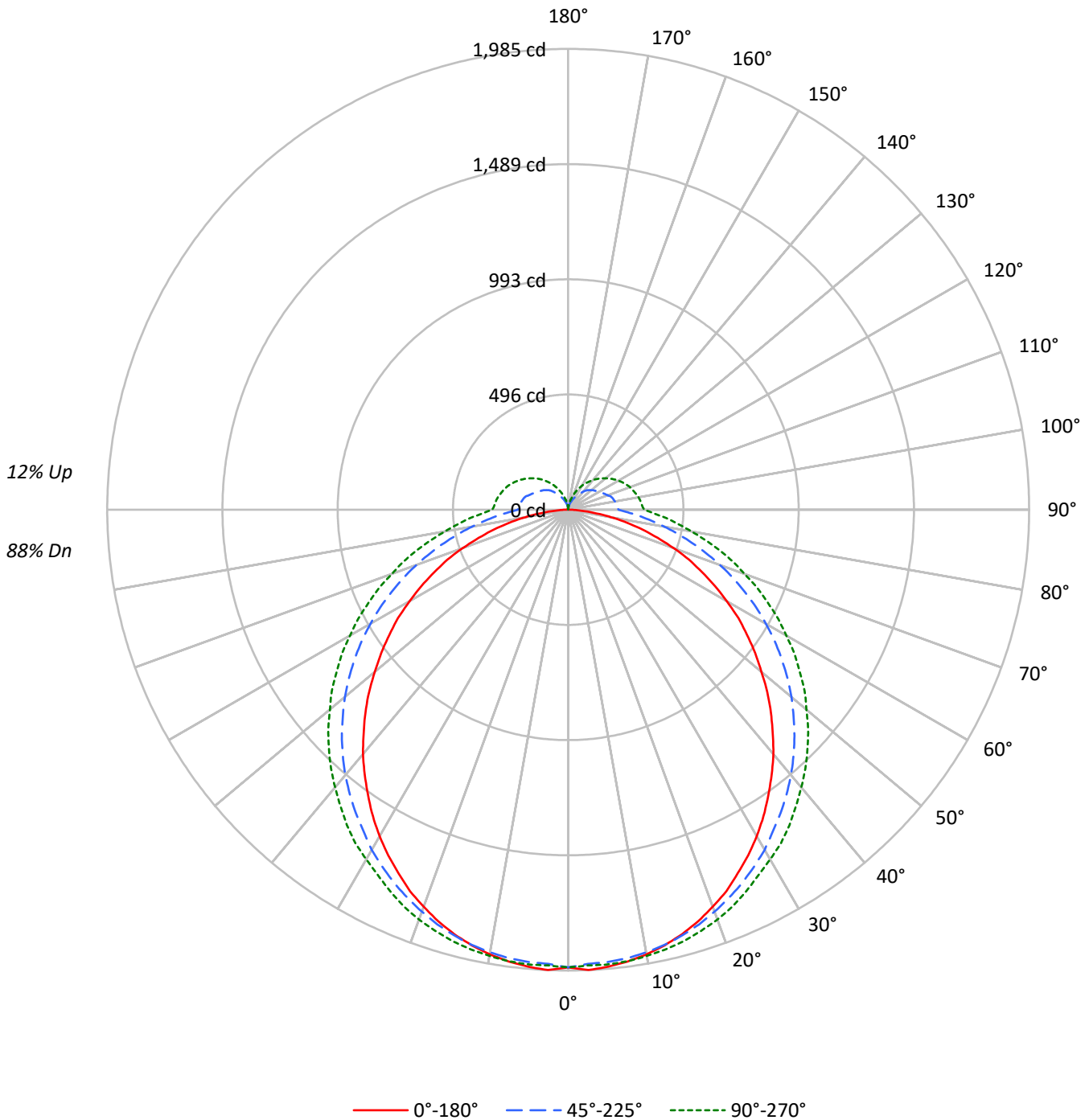
Lumens per Lamp: N/A
Luminaire Lumens: 7097.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 67.4
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

TEST NUMBER: P567034

CATALOG NUMBER: 4SNX-93HL-SLW-UNV-L930-CD

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°	21219	21219	21219
5°	21313	20678	20647
10°	21176	20269	20153
15°	20984	19830	19688
20°	20684	19348	19202
25°	20329	18865	18649
30°	19942	18379	18139
35°	19457	17837	17700
40°	18983	17341	17163
45°	18415	16791	16653
50°	17755	16205	16069
55°	17124	15523	15486
60°	16392	14781	14818
65°	15499	13935	14104
70°	14366	12982	13282
75°	12761	11885	12528
80°	10515	10795	11577
85°	7277	9823	10957



TEST NUMBER: P567034

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	2.6
10°-20°	538.3	7.6
20°-30°	818.9	11.5
30°-40°	995.8	14.0
40°-50°	1053.5	14.8
50°-60°	987.5	13.9
60°-70°	812.4	11.4
70°-80°	562.1	7.9
80°-90°	312.6	4.4
90°-100°	205.9	2.9
100°-110°	184.6	2.6
110°-120°	152.8	2.2
120°-130°	118.2	1.7
130°-140°	83.6	1.2
140°-150°	50.4	0.7
150°-160°	24.2	0.3
160°-170°	7.9	0.1
170°-180°	1.0	0.0
0°-30°	1544.4	21.8
0°-40°	2540.2	35.8
0°-60°	4581.2	64.6
0°-90°	6268.2	88.3
90°-120°	543.4	7.7
90°-150°	795.6	11.2
90°-180°	829.0	11.7
0°-180°	7097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1971	1971	1971	1971	1971	
5°	1976	1972	1956	1971	1966	188
15°	1894	1900	1898	1924	1924	534
25°	1728	1752	1773	1812	1813	797
35°	1502	1542	1594	1646	1660	940
45°	1235	1299	1378	1440	1457	952
55°	940	1023	1122	1192	1216	841
65°	636	727	840	922	948	630
75°	331	427	552	639	674	351
85°	73	181	306	391	425	84
90°	1	102	216	298	327	5
95°	1	97	210	288	316	1
105°	1	84	197	271	295	1
115°	2	73	166	241	267	2
125°	2	62	142	205	231	2
135°	2	49	119	169	190	2
145°	2	35	83	128	143	2
155°	4	24	51	81	95	2
165°	4	16	28	38	49	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



TEST NUMBER: P567034

CATALOG NUMBER: 4SNX-93HL-SLW-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1971.3	1971.3	1971.3	1971.3	1971.3
2.5°	1984.6	1978.6	1957.9	1971.3	1965.2
5°	1976.1	1972.5	1955.5	1971.3	1966.4
7.5°	1962.8	1961.5	1948.2	1966.4	1961.5
10°	1944.5	1947.0	1936.0	1955.5	1951.8
12.5°	1921.4	1925.1	1920.2	1942.1	1939.7
15°	1893.5	1899.6	1898.4	1923.9	1923.9
17.5°	1859.5	1868.0	1872.8	1902.0	1902.0
20°	1819.4	1832.7	1842.4	1874.0	1878.9
22.5°	1779.2	1795.0	1809.6	1842.4	1849.7
25°	1728.2	1752.5	1773.2	1812.1	1813.3
27.5°	1678.4	1705.1	1733.1	1770.7	1774.4
30°	1623.7	1657.7	1691.7	1728.2	1739.1
32.5°	1565.4	1603.0	1640.7	1689.3	1703.9
35°	1502.2	1542.3	1594.5	1645.6	1660.1
37.5°	1439.0	1483.9	1544.7	1596.9	1610.3
40°	1374.5	1424.4	1492.4	1545.9	1561.7
42.5°	1302.8	1363.6	1436.5	1493.6	1511.9
45°	1234.8	1299.2	1378.2	1440.2	1457.2
47.5°	1163.1	1231.1	1316.2	1381.8	1401.3
50°	1086.5	1164.3	1255.4	1321.1	1339.3
52.5°	1014.8	1093.8	1189.8	1257.9	1283.4
55°	939.5	1023.3	1121.8	1192.2	1216.5
57.5°	869.0	949.2	1054.9	1125.4	1155.8
60°	788.8	877.5	983.2	1059.8	1084.1
62.5°	713.4	803.3	912.7	991.7	1019.7
65°	635.6	726.8	839.8	922.4	948.0
67.5°	562.7	652.6	768.1	849.5	882.3
70°	482.5	577.3	695.2	779.0	807.0
72.5°	403.5	501.9	622.3	712.2	743.8
75°	330.6	426.6	551.8	639.3	674.5
77.5°	260.1	357.3	483.7	573.6	604.0
80°	189.6	291.7	420.5	509.2	538.4
82.5°	125.2	232.1	359.7	448.5	480.1
85°	72.9	181.1	306.3	391.3	425.4
87.5°	31.6	137.3	256.4	340.3	368.2
90°	1.2	102.1	216.3	297.8	326.9
92.5°	1.2	99.7	211.5	291.7	319.6
95°	1.2	97.2	210.3	288.0	316.0
97.5°	1.2	96.0	207.8	285.6	312.3
100°	1.2	92.4	204.2	280.7	307.5
102.5°	1.2	87.5	200.5	275.9	301.4
105°	1.2	83.9	196.9	271.0	295.3
107.5°	1.2	80.2	190.8	264.9	289.2
110°	1.2	76.6	181.1	258.9	283.2



TEST NUMBER: P567034

CATALOG NUMBER: 4SNX-93HL-SLW-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	75.4	173.8	250.4	275.9
115°	2.4	72.9	166.5	240.6	267.4
117.5°	2.4	71.7	160.4	230.9	258.9
120°	2.4	68.1	154.3	222.4	249.1
122.5°	2.4	64.4	148.3	213.9	240.6
125°	2.4	62.0	142.2	205.4	230.9
127.5°	2.4	58.3	137.3	196.9	220.0
130°	2.4	55.9	131.3	187.2	210.3
132.5°	2.4	52.3	125.2	177.4	199.3
135°	2.4	48.6	119.1	168.9	189.6
137.5°	2.4	43.8	111.8	159.2	178.7
140°	2.4	40.1	102.1	149.5	167.7
142.5°	2.4	37.7	92.4	138.5	155.6
145°	2.4	35.2	82.6	127.6	143.4
147.5°	2.4	32.8	74.1	116.7	131.3
150°	2.4	29.2	65.6	106.9	119.1
152.5°	3.6	26.7	58.3	94.8	106.9
155°	3.6	24.3	51.0	81.4	94.8
157.5°	3.6	21.9	43.8	68.1	82.6
160°	3.6	19.4	37.7	55.9	70.5
162.5°	3.6	18.2	32.8	46.2	59.6
165°	3.6	15.8	28.0	37.7	48.6
167.5°	3.6	12.2	23.1	29.2	40.1
170°	3.6	9.7	18.2	20.7	30.4
172.5°	3.6	7.3	13.4	14.6	15.8
175°	3.6	6.1	8.5	8.5	4.9
177.5°	3.6	4.9	4.9	4.9	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)