

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: P567026

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567026
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-LW-UNV-L930-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

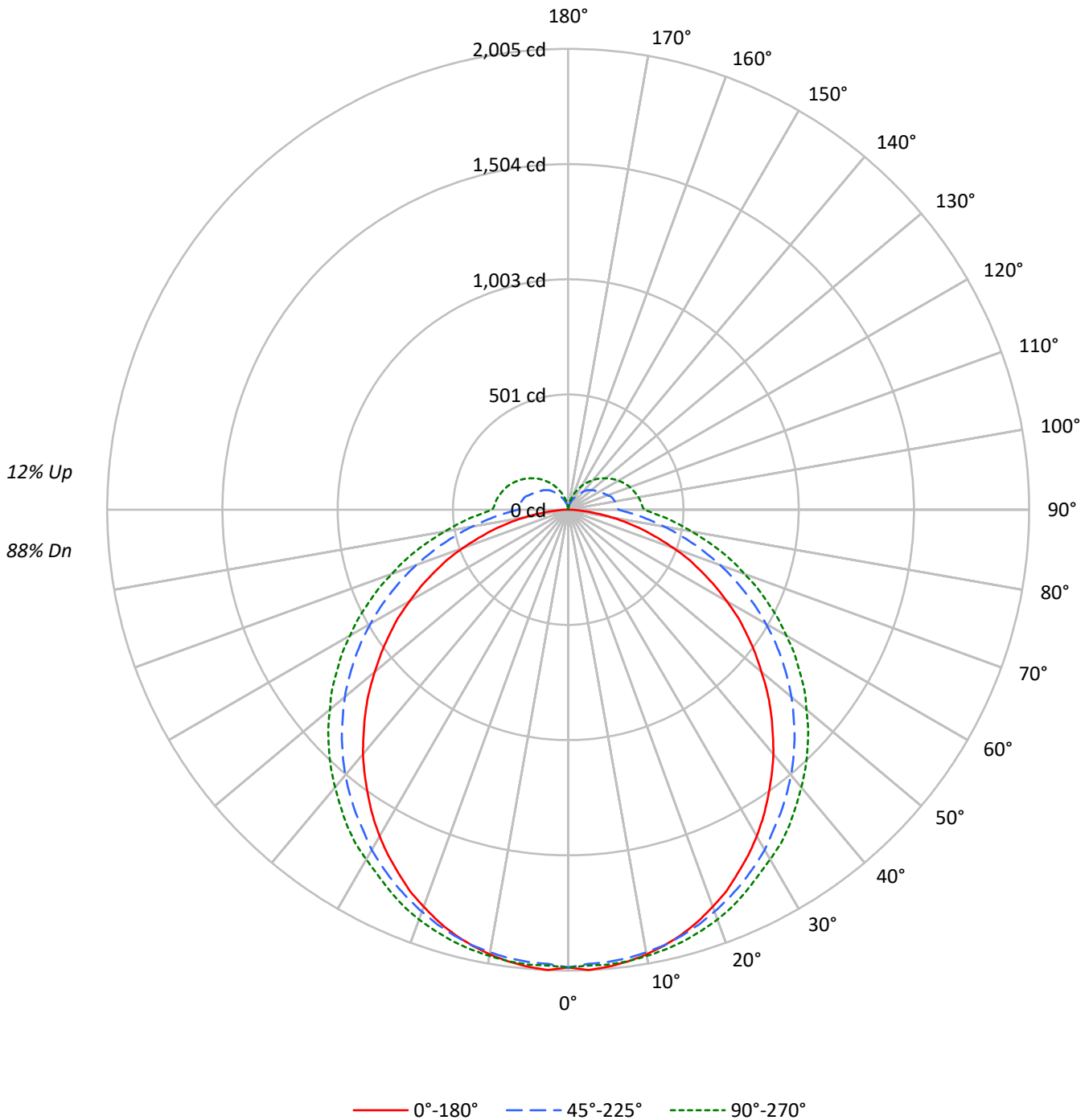
Lumens per Lamp: N/A
Luminaire Lumens: 7169.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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: P567026

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

Luminous Intensity Polar Plot





TEST NUMBER: P567026

CATALOG NUMBER: 4SNX-93HL-LW-UNV-L930-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	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°	21434	21434	21434
5°	21491	20447	20280
10°	21313	19641	19283
15°	21079	18840	18374
20°	20737	18031	17496
25°	20338	17246	16595
30°	19907	16476	15767
35°	19374	15670	15023
40°	18851	14915	14214
45°	18227	14120	13444
50°	17509	13299	12625
55°	16809	12397	11814
60°	15999	11449	10941
65°	15013	10417	10038
70°	13764	9300	9060
75°	12018	8079	8124
80°	9602	6856	7052
85°	6166	5682	6156



TEST NUMBER: P567026

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	2.6
10°-20°	543.8	7.6
20°-30°	827.2	11.5
30°-40°	1005.9	14.0
40°-50°	1064.2	14.8
50°-60°	997.5	13.9
60°-70°	820.6	11.4
70°-80°	567.8	7.9
80°-90°	315.7	4.4
90°-100°	208.0	2.9
100°-110°	186.5	2.6
110°-120°	154.4	2.2
120°-130°	119.4	1.7
130°-140°	84.5	1.2
140°-150°	51.0	0.7
150°-160°	24.5	0.3
160°-170°	8.0	0.1
170°-180°	1.0	0.0
0°-30°	1560.1	21.8
0°-40°	2565.9	35.8
0°-60°	4627.6	64.6
0°-90°	6331.8	88.3
90°-120°	548.9	7.7
90°-150°	803.7	11.2
90°-180°	837.0	11.7
0°-180°	7169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1991	1991	1991	1991	1991	
5°	1996	1992	1975	1991	1986	189
15°	1913	1919	1918	1943	1943	539
25°	1746	1770	1791	1830	1832	805
35°	1517	1558	1611	1662	1677	950
45°	1247	1312	1392	1455	1472	961
55°	949	1034	1133	1204	1229	850
65°	642	734	848	932	958	637
75°	334	431	557	646	681	354
85°	74	183	309	395	430	85
90°	1	103	218	301	330	5
95°	1	98	212	291	319	1
105°	1	85	199	274	298	1
115°	2	74	168	243	270	2
125°	2	63	144	208	233	2
135°	2	49	120	171	192	2
145°	2	36	84	129	145	2
155°	4	25	52	82	96	2
165°	4	16	28	38	49	1
175°	4	6	9	9	5	0
180°	2	2	2	2	2	



TEST NUMBER: P567026

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1991.3	1991.3	1991.3	1991.3	1991.3
2.5°	2004.8	1998.6	1977.8	1991.3	1985.1
5°	1996.2	1992.5	1975.3	1991.3	1986.4
7.5°	1982.7	1981.4	1967.9	1986.4	1981.4
10°	1964.3	1966.7	1955.7	1975.3	1971.6
12.5°	1940.9	1944.6	1939.7	1961.8	1959.4
15°	1912.7	1918.8	1917.6	1943.4	1943.4
17.5°	1878.3	1886.9	1891.8	1921.3	1921.3
20°	1837.8	1851.3	1861.1	1893.1	1898.0
22.5°	1797.3	1813.3	1828.0	1861.1	1868.5
25°	1745.7	1770.3	1791.2	1830.4	1831.7
27.5°	1695.4	1722.4	1750.6	1788.7	1792.4
30°	1640.2	1674.5	1708.9	1745.7	1756.8
32.5°	1581.2	1619.3	1657.3	1706.5	1721.2
35°	1517.4	1557.9	1610.7	1662.3	1677.0
37.5°	1453.6	1499.0	1560.4	1613.2	1626.7
40°	1388.5	1438.8	1507.6	1561.6	1577.5
42.5°	1316.1	1377.4	1451.1	1508.8	1527.2
45°	1247.3	1312.4	1392.2	1454.8	1472.0
47.5°	1174.9	1243.6	1329.6	1395.9	1415.5
50°	1097.5	1176.1	1268.2	1334.5	1352.9
52.5°	1025.1	1104.9	1201.9	1270.6	1296.4
55°	949.0	1033.7	1133.1	1204.3	1228.9
57.5°	877.8	958.8	1065.6	1136.8	1167.5
60°	796.8	886.4	993.2	1070.5	1095.1
62.5°	720.6	811.5	922.0	1001.8	1030.0
65°	642.1	734.1	848.3	931.8	957.6
67.5°	568.4	659.3	775.9	858.1	891.3
70°	487.4	583.1	702.2	786.9	815.2
72.5°	407.6	507.0	628.6	719.4	751.3
75°	333.9	430.9	557.4	645.8	681.4
77.5°	262.7	360.9	488.6	579.5	610.1
80°	191.5	294.6	424.8	514.4	543.9
82.5°	126.4	234.5	363.4	453.0	484.9
85°	73.7	182.9	309.4	395.3	429.7
87.5°	31.9	138.7	259.0	343.7	372.0
90°	1.2	103.1	218.5	300.8	330.2
92.5°	1.2	100.7	213.6	294.6	322.9
95°	1.2	98.2	212.4	291.0	319.2
97.5°	1.2	97.0	209.9	288.5	315.5
100°	1.2	93.3	206.2	283.6	310.6
102.5°	1.2	88.4	202.6	278.7	304.5
105°	1.2	84.7	198.9	273.8	298.3
107.5°	1.2	81.0	192.7	267.6	292.2
110°	1.2	77.3	182.9	261.5	286.0



TEST NUMBER: P567026

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	76.1	175.6	252.9	278.7
115°	2.5	73.7	168.2	243.1	270.1
117.5°	2.5	72.4	162.1	233.3	261.5
120°	2.5	68.7	155.9	224.7	251.7
122.5°	2.5	65.1	149.8	216.1	243.1
125°	2.5	62.6	143.6	207.5	233.3
127.5°	2.5	58.9	138.7	198.9	222.2
130°	2.5	56.5	132.6	189.1	212.4
132.5°	2.5	52.8	126.4	179.2	201.3
135°	2.5	49.1	120.3	170.6	191.5
137.5°	2.5	44.2	112.9	160.8	180.5
140°	2.5	40.5	103.1	151.0	169.4
142.5°	2.5	38.1	93.3	140.0	157.1
145°	2.5	35.6	83.5	128.9	144.9
147.5°	2.5	33.1	74.9	117.9	132.6
150°	2.5	29.5	66.3	108.0	120.3
152.5°	3.7	27.0	58.9	95.8	108.0
155°	3.7	24.6	51.6	82.3	95.8
157.5°	3.7	22.1	44.2	68.7	83.5
160°	3.7	19.6	38.1	56.5	71.2
162.5°	3.7	18.4	33.1	46.7	60.2
165°	3.7	16.0	28.2	38.1	49.1
167.5°	3.7	12.3	23.3	29.5	40.5
170°	3.7	9.8	18.4	20.9	30.7
172.5°	3.7	7.4	13.5	14.7	16.0
175°	3.7	6.1	8.6	8.6	4.9
177.5°	3.7	4.9	4.9	4.9	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)