

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: P567005

Luminaire Tested: **4SNX-93HL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567005  
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-FDL-UNV-L950-CD  
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

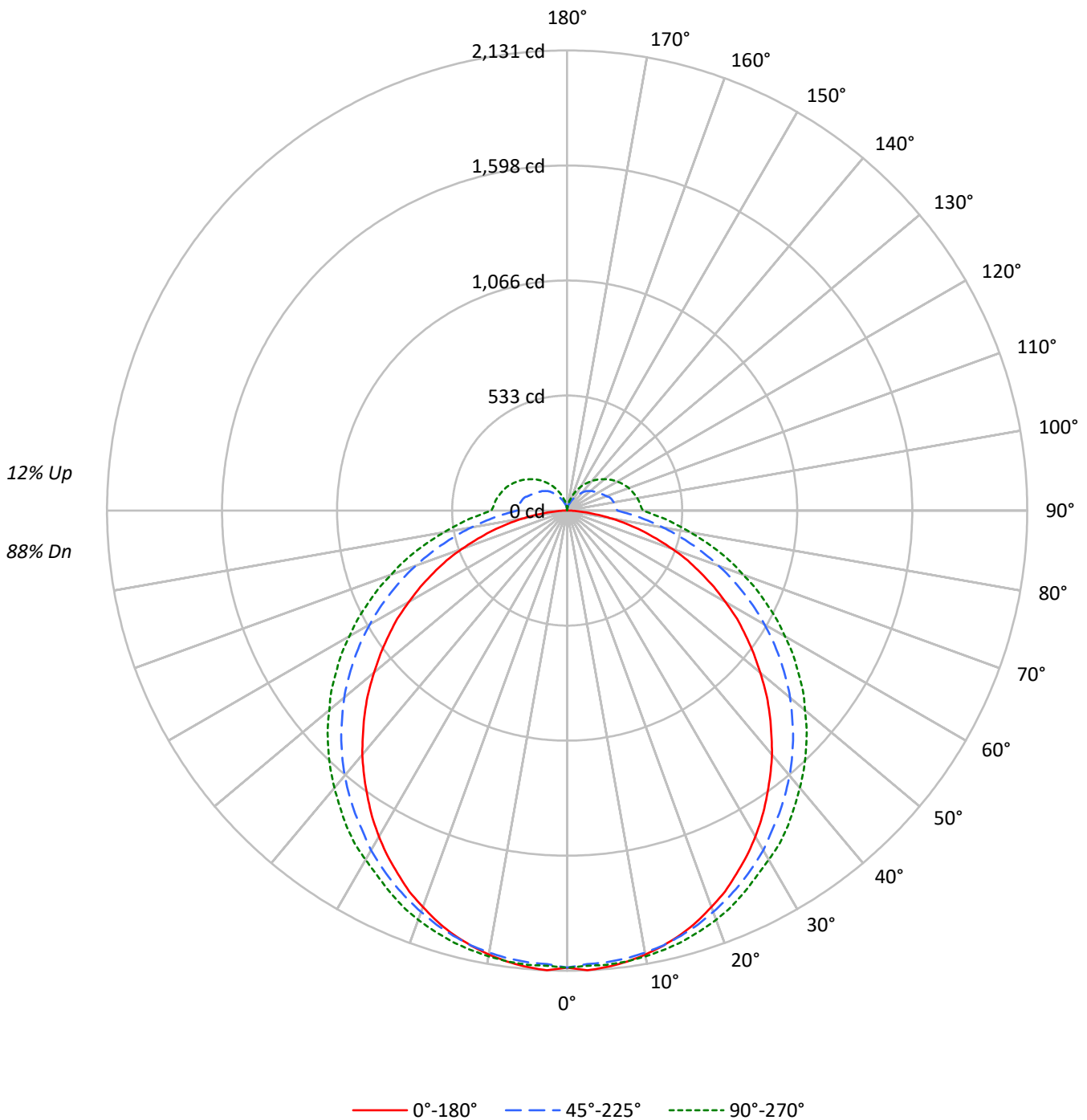
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7620.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 67.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P567005  
CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L950-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°	22782	22782	22782
5°	22905	22440	22485
10°	22778	22229	22252
15°	22592	21976	22035
20°	22291	21672	21787
25°	21932	21363	21455
30°	21538	21054	21172
35°	21041	20683	20975
40°	20557	20375	20670
45°	19974	20019	20415
50°	19296	19642	20090
55°	18652	19173	19800
60°	17909	18676	19445
65°	17003	18104	19097
70°	15849	17478	18705
75°	14207	16791	18569
80°	11917	16365	18422
85°	8641	16702	19416



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.9	2.6
10°-20°	578.0	7.6
20°-30°	879.3	11.5
30°-40°	1069.1	14.0
40°-50°	1131.1	14.8
50°-60°	1060.3	13.9
60°-70°	872.3	11.4
70°-80°	603.5	7.9
80°-90°	335.6	4.4
90°-100°	221.1	2.9
100°-110°	198.3	2.6
110°-120°	164.1	2.2
120°-130°	126.9	1.7
130°-140°	89.8	1.2
140°-150°	54.2	0.7
150°-160°	26.0	0.3
160°-170°	8.5	0.1
170°-180°	1.0	0.0
0°-30°	1658.2	21.8
0°-40°	2727.4	35.8
0°-60°	4918.8	64.6
0°-90°	6730.1	88.3
90°-120°	583.5	7.7
90°-150°	854.3	11.2
90°-180°	890.0	11.7
0°-180°	7620.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2116	2116	2116	2116	2116	
5°	2122	2118	2100	2116	2111	201
15°	2033	2040	2038	2066	2066	573
25°	1856	1882	1904	1946	1947	855
35°	1613	1656	1712	1767	1782	1009
45°	1326	1395	1480	1546	1565	1022
55°	1009	1099	1204	1280	1306	903
65°	682	780	902	990	1018	677
75°	355	458	592	686	724	376
85°	78	194	329	420	457	90
90°	1	110	232	320	351	5
95°	1	104	226	309	339	1
105°	1	90	211	291	317	1
115°	3	78	179	258	287	2
125°	3	66	153	220	248	2
135°	3	52	128	181	204	2
145°	3	38	89	137	154	2
155°	4	26	55	87	102	2
165°	4	17	30	40	52	1
175°	4	6	9	9	5	0
180°	3	3	3	3	3	



TEST NUMBER: P567005

CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2116.5	2116.5	2116.5	2116.5	2116.5
2.5°	2130.9	2124.4	2102.2	2116.5	2110.0
5°	2121.8	2117.8	2099.6	2116.5	2111.3
7.5°	2107.4	2106.1	2091.7	2111.3	2106.1
10°	2087.8	2090.4	2078.7	2099.6	2095.7
12.5°	2063.0	2067.0	2061.7	2085.2	2082.6
15°	2033.0	2039.6	2038.2	2065.7	2065.7
17.5°	1996.5	2005.6	2010.8	2042.2	2042.2
20°	1953.4	1967.8	1978.2	2012.1	2017.4
22.5°	1910.4	1927.3	1943.0	1978.2	1986.1
25°	1855.6	1881.7	1903.8	1945.6	1946.9
27.5°	1802.1	1830.8	1860.8	1901.2	1905.1
30°	1743.3	1779.9	1816.4	1855.6	1867.3
32.5°	1680.7	1721.2	1761.6	1813.8	1829.5
35°	1612.9	1655.9	1712.0	1766.8	1782.5
37.5°	1545.0	1593.3	1658.5	1714.6	1729.0
40°	1475.8	1529.3	1602.4	1659.8	1676.8
42.5°	1398.8	1464.1	1542.4	1603.7	1623.3
45°	1325.8	1394.9	1479.8	1546.3	1564.6
47.5°	1248.8	1321.9	1413.2	1483.7	1504.5
50°	1166.6	1250.1	1348.0	1418.4	1438.0
52.5°	1089.6	1174.4	1277.5	1350.6	1378.0
55°	1008.7	1098.7	1204.4	1280.1	1306.2
57.5°	933.0	1019.1	1132.6	1208.3	1241.0
60°	846.9	942.1	1055.7	1137.9	1164.0
62.5°	766.0	862.5	980.0	1064.8	1094.8
65°	682.5	780.3	901.7	990.4	1017.8
67.5°	604.2	700.7	824.7	912.1	947.4
70°	518.0	619.8	746.4	836.4	866.5
72.5°	433.2	538.9	668.1	764.7	798.6
75°	354.9	458.0	592.4	686.4	724.2
77.5°	279.2	383.6	519.3	615.9	648.5
80°	203.6	313.2	451.5	546.8	578.1
82.5°	134.4	249.2	386.2	481.5	515.4
85°	78.3	194.4	328.8	420.2	456.7
87.5°	33.9	147.5	275.3	365.4	395.4
90°	1.3	109.6	232.3	319.7	351.0
92.5°	1.3	107.0	227.1	313.2	343.2
95°	1.3	104.4	225.7	309.3	339.3
97.5°	1.3	103.1	223.1	306.7	335.4
100°	1.3	99.2	219.2	301.4	330.1
102.5°	1.3	94.0	215.3	296.2	323.6
105°	1.3	90.0	211.4	291.0	317.1
107.5°	1.3	86.1	204.9	284.5	310.6
110°	1.3	82.2	194.4	277.9	304.0



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CATALOG NUMBER: 4SNX-93HL-FDL-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	80.9	186.6	268.8	296.2
115°	2.6	78.3	178.8	258.4	287.1
117.5°	2.6	77.0	172.2	247.9	277.9
120°	2.6	73.1	165.7	238.8	267.5
122.5°	2.6	69.2	159.2	229.7	258.4
125°	2.6	66.5	152.7	220.5	247.9
127.5°	2.6	62.6	147.5	211.4	236.2
130°	2.6	60.0	140.9	201.0	225.7
132.5°	2.6	56.1	134.4	190.5	214.0
135°	2.6	52.2	127.9	181.4	203.6
137.5°	2.6	47.0	120.1	170.9	191.8
140°	2.6	43.1	109.6	160.5	180.1
142.5°	2.6	40.5	99.2	148.8	167.0
145°	2.6	37.8	88.7	137.0	154.0
147.5°	2.6	35.2	79.6	125.3	140.9
150°	2.6	31.3	70.5	114.8	127.9
152.5°	3.9	28.7	62.6	101.8	114.8
155°	3.9	26.1	54.8	87.4	101.8
157.5°	3.9	23.5	47.0	73.1	88.7
160°	3.9	20.9	40.5	60.0	75.7
162.5°	3.9	19.6	35.2	49.6	63.9
165°	3.9	17.0	30.0	40.5	52.2
167.5°	3.9	13.0	24.8	31.3	43.1
170°	3.9	10.4	19.6	22.2	32.6
172.5°	3.9	7.8	14.4	15.7	17.0
175°	3.9	6.5	9.1	9.1	5.2
177.5°	3.9	5.2	5.2	5.2	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)