

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: P567018

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567018  
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-L930-CD  
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

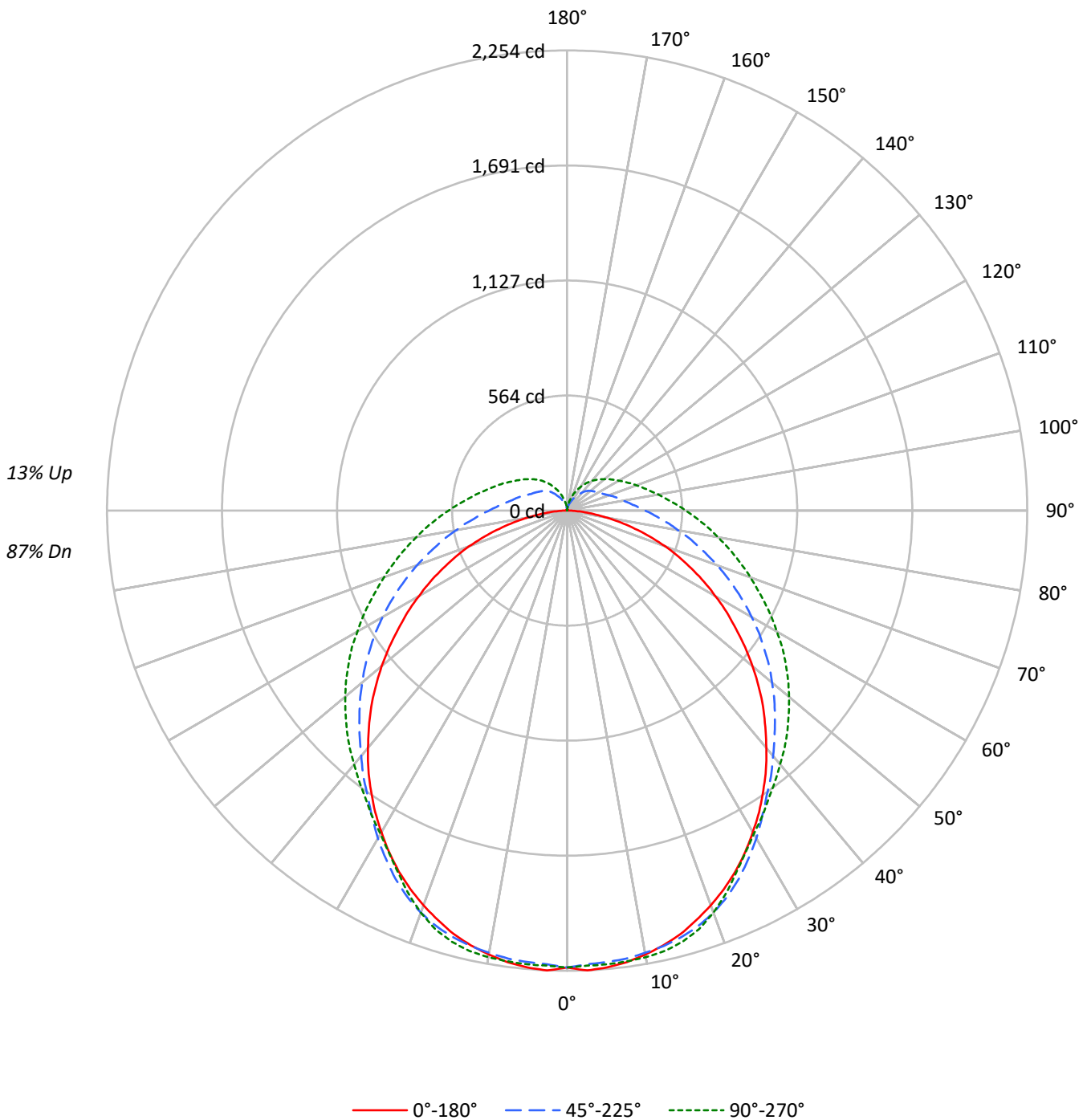
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8079.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 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 (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

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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	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°	24090	24090	24090
5°	24183	22982	22780
10°	23956	22092	21728
15°	23668	21249	20668
20°	23213	20303	19317
25°	22723	19161	17733
30°	22076	17879	16410
35°	21387	16576	15424
40°	20604	15528	14625
45°	19835	14600	13936
50°	18922	13745	13242
55°	17856	12887	12562
60°	16830	12031	11850
65°	15691	11168	11199
70°	14388	10359	10611
75°	12374	9569	10125
80°	9752	8887	9714
85°	6534	8402	9477



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.6	2.6
10°-20°	611.3	7.6
20°-30°	910.2	11.3
30°-40°	1074.0	13.3
40°-50°	1120.1	13.9
50°-60°	1052.6	13.0
60°-70°	888.9	11.0
70°-80°	671.7	8.3
80°-90°	463.0	5.7
90°-100°	324.0	4.0
100°-110°	241.8	3.0
110°-120°	182.3	2.3
120°-130°	135.9	1.7
130°-140°	95.4	1.2
140°-150°	57.7	0.7
150°-160°	27.6	0.3
160°-170°	8.8	0.1
170°-180°	1.1	0.0
0°-30°	1734.1	21.5
0°-40°	2808.2	34.8
0°-60°	4980.9	61.7
0°-90°	7004.4	86.7
90°-120°	748.0	9.3
90°-150°	1037.0	12.8
90°-180°	1075.0	13.3
0°-180°	8079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2246	2242	2220	2237	2231	213
15°	2148	2157	2163	2190	2186	605
25°	1950	1990	1990	1972	1957	897
35°	1675	1737	1704	1718	1722	1048
45°	1357	1424	1440	1498	1526	1045
55°	1008	1094	1178	1272	1307	905
65°	671	778	910	1029	1068	666
75°	344	477	660	798	849	366
85°	78	245	458	608	662	88
90°	1	174	382	529	581	5
95°	1	136	323	463	511	1
105°	3	97	249	362	403	3
115°	3	84	193	288	325	3
125°	4	71	163	236	266	4
135°	4	55	136	192	215	3
145°	6	40	94	147	164	3
155°	6	26	58	93	108	3
165°	7	16	30	41	55	2
175°	7	7	8	8	4	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2238.0	2238.0	2238.0	2238.0	2238.0
2.5°	2254.5	2249.0	2224.3	2238.0	2231.2
5°	2246.3	2242.1	2220.2	2236.7	2231.2
7.5°	2231.2	2229.8	2213.4	2232.6	2227.1
10°	2207.9	2212.0	2199.7	2225.7	2221.6
12.5°	2180.5	2188.7	2184.6	2213.4	2209.3
15°	2147.6	2157.2	2162.7	2190.1	2186.0
17.5°	2103.8	2121.6	2133.9	2155.9	2149.0
20°	2057.2	2081.9	2095.6	2106.5	2095.6
22.5°	2006.6	2039.4	2047.6	2042.2	2031.2
25°	1950.4	1990.1	1990.1	1972.3	1957.3
27.5°	1887.4	1936.7	1923.0	1902.5	1890.1
30°	1818.9	1877.8	1854.5	1831.2	1828.5
32.5°	1750.4	1812.1	1777.8	1772.3	1776.5
35°	1675.1	1736.7	1703.9	1717.6	1721.7
37.5°	1599.8	1661.4	1639.5	1660.0	1672.4
40°	1517.6	1583.3	1569.6	1606.6	1623.1
42.5°	1436.8	1505.3	1503.9	1551.8	1576.5
45°	1357.3	1424.5	1439.5	1498.4	1525.8
47.5°	1271.0	1339.5	1376.5	1445.0	1472.4
50°	1186.1	1260.1	1310.8	1387.5	1419.0
52.5°	1098.5	1176.5	1246.4	1331.3	1364.2
55°	1008.1	1094.4	1177.9	1272.4	1306.7
57.5°	927.3	1014.9	1113.5	1210.8	1250.5
60°	838.2	935.5	1043.7	1146.4	1186.1
62.5°	757.4	857.4	977.9	1086.1	1128.6
65°	671.1	778.0	909.5	1028.6	1068.3
67.5°	591.7	701.3	845.1	965.6	1009.4
70°	509.5	625.9	782.1	909.5	954.7
72.5°	424.6	547.9	719.1	854.7	901.2
75°	343.8	476.6	660.2	798.5	849.2
77.5°	268.5	408.2	606.8	749.2	798.5
80°	194.5	346.5	550.6	698.5	749.2
82.5°	128.7	293.1	505.4	653.3	706.7
85°	78.1	245.2	457.5	608.1	661.5
87.5°	35.6	205.4	419.1	568.4	620.5
90°	1.4	173.9	382.1	528.7	580.7
92.5°	1.4	152.0	352.0	494.4	545.1
95°	1.4	135.6	323.2	462.9	510.9
97.5°	1.4	124.6	301.3	432.8	479.4
100°	1.4	113.7	279.4	405.4	453.4
102.5°	2.7	104.1	263.0	380.8	426.0
105°	2.7	97.2	249.3	361.6	402.7
107.5°	2.7	93.1	234.2	342.4	380.8
110°	2.7	89.0	217.8	323.2	361.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	86.3	205.4	306.8	343.8
115°	2.7	83.5	193.1	287.6	324.6
117.5°	2.7	82.2	186.3	272.6	308.2
120°	4.1	78.1	178.1	258.9	293.1
122.5°	4.1	74.0	169.8	247.9	278.0
125°	4.1	71.2	163.0	235.6	265.7
127.5°	4.1	67.1	156.1	224.6	252.0
130°	4.1	63.0	150.7	213.7	239.7
132.5°	4.1	58.9	143.8	202.7	227.4
135°	4.1	54.8	135.6	191.8	215.0
137.5°	4.1	50.7	127.4	180.8	202.7
140°	4.1	46.6	116.4	169.8	190.4
142.5°	4.1	42.5	105.5	158.9	176.7
145°	5.5	39.7	94.5	146.6	164.4
147.5°	5.5	35.6	83.5	134.2	149.3
150°	5.5	32.9	75.3	121.9	135.6
152.5°	5.5	28.8	67.1	108.2	121.9
155°	5.5	26.0	57.5	93.1	108.2
157.5°	5.5	23.3	49.3	78.1	94.5
160°	5.5	21.9	42.5	64.4	80.8
162.5°	6.8	19.2	35.6	52.0	67.1
165°	6.8	16.4	30.1	41.1	54.8
167.5°	6.8	13.7	24.7	31.5	42.5
170°	6.8	11.0	19.2	21.9	32.9
172.5°	6.8	8.2	13.7	15.1	16.4
175°	6.8	6.8	8.2	8.2	4.1
177.5°	6.8	6.8	5.5	4.1	1.4
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)