

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: P567010

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-93HL-LC-UNV-L930-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

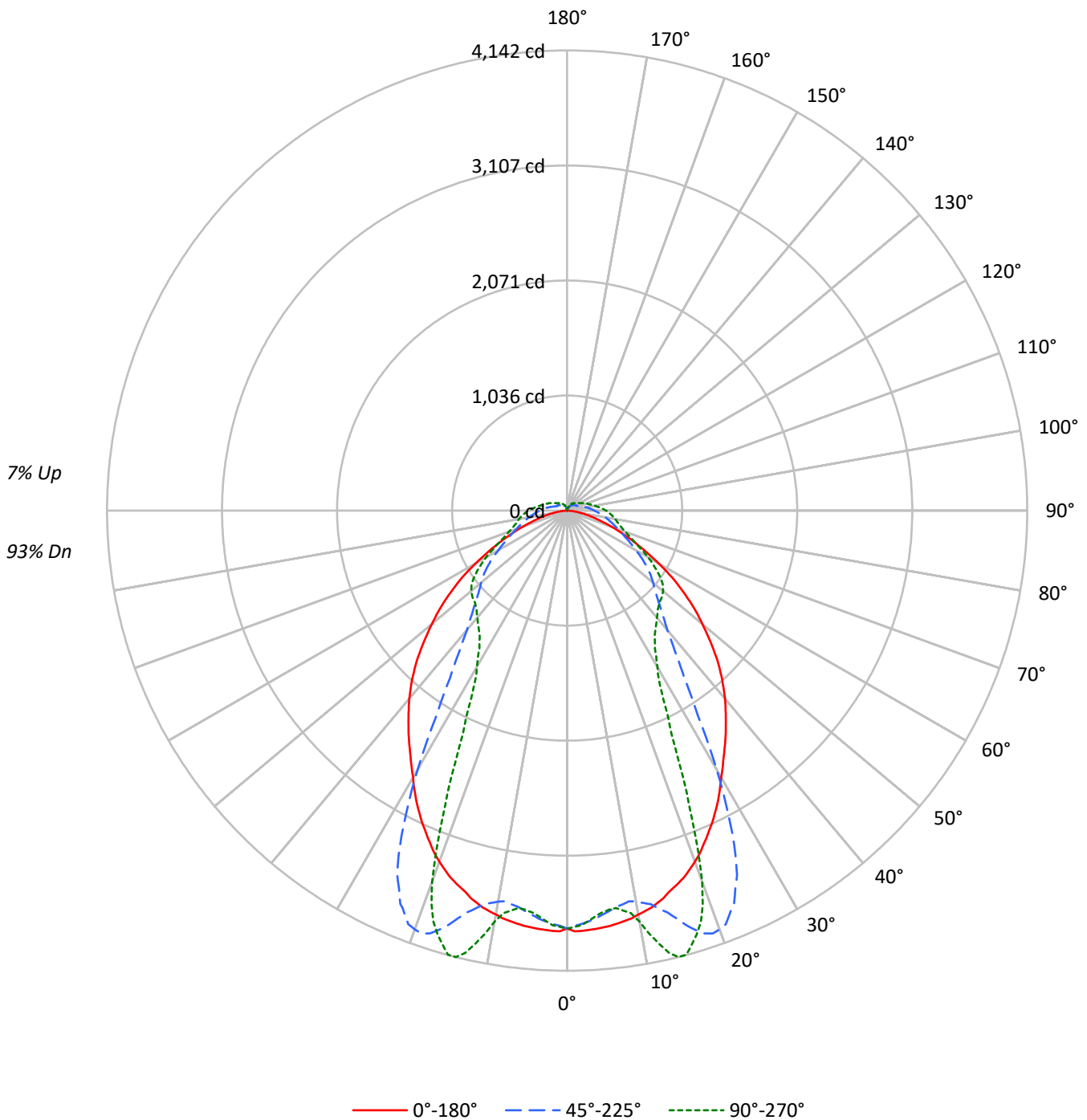
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8361.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: 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: P567010
CATALOG NUMBER: 4SNX-93HL-LC-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567010

CATALOG NUMBER: 4SNX-93HL-LC-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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	40494	40494	40494
5°	40543	37793	37067
10°	40057	35885	36756
15°	39124	37326	39129
20°	37941	38872	32749
25°	36036	34844	20136
30°	33668	25932	14573
35°	31734	17884	12294
40°	30000	13867	11330
45°	27982	11796	10715
50°	25355	10575	10519
55°	22588	9553	9732
60°	19045	8256	8417
65°	15370	7180	7025
70°	11931	6442	6186
75°	9099	5976	5768
80°	6207	5646	5710
85°	3204	5368	5669



TEST NUMBER: P567010

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.1	4.2
10°-20°	1069.7	12.8
20°-30°	1440.3	17.2
30°-40°	1363.1	16.3
40°-50°	1203.2	14.4
50°-60°	977.2	11.7
60°-70°	664.6	7.9
70°-80°	427.6	5.1
80°-90°	284.4	3.4
90°-100°	195.4	2.3
100°-110°	131.2	1.6
110°-120°	92.5	1.1
120°-130°	66.1	0.8
130°-140°	46.6	0.6
140°-150°	29.0	0.3
150°-160°	14.1	0.2
160°-170°	4.9	0.1
170°-180°	0.9	0.0
0°-30°	2860.1	34.2
0°-40°	4223.2	50.5
0°-60°	6403.6	76.6
0°-90°	7780.2	93.1
90°-120°	419.2	5.0
90°-150°	560.8	6.7
90°-180°	581.0	6.9
0°-180°	8361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3762	3762	3762	3762	3762	
5°	3766	3731	3651	3648	3631	357
15°	3550	3527	3799	4135	4139	1001
25°	3093	3668	3619	2628	2222	1419
35°	2486	3488	1838	1416	1372	1555
45°	1915	2346	1163	1149	1173	1470
55°	1275	1388	873	975	1012	1139
65°	657	748	585	650	670	660
75°	253	354	412	462	484	275
85°	38	151	292	370	396	50
90°	1	105	244	328	350	2
95°	1	80	206	278	297	1
105°	3	56	135	190	213	3
115°	3	48	100	142	160	3
125°	4	41	86	107	115	4
135°	5	32	70	89	94	4
145°	5	23	50	69	75	3
155°	6	14	31	46	52	3
165°	6	9	17	23	28	2
175°	8	8	8	8	6	1
180°	6	6	6	6	6	



TEST NUMBER: P567010

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3762.0	3762.0	3762.0	3762.0	3762.0
1°	3787.6	3776.1	3737.8	3758.2	3748.0
2°	3786.3	3767.1	3723.7	3746.7	3734.0
3°	3779.9	3759.5	3703.3	3717.4	3698.2
4°	3773.5	3749.3	3681.6	3681.6	3659.9
5°	3765.9	3731.4	3651.0	3648.4	3630.6
6°	3756.9	3717.4	3624.2	3621.6	3611.4
7°	3744.2	3693.1	3594.8	3612.7	3605.0
8°	3728.8	3670.1	3579.5	3624.2	3635.7
9°	3714.8	3642.0	3561.6	3659.9	3668.8
10°	3691.8	3616.5	3573.1	3731.4	3758.2
11°	3672.7	3594.8	3598.6	3801.6	3882.0
12°	3653.5	3571.8	3622.9	3889.7	3988.0
13°	3621.6	3554.0	3676.5	3985.4	4086.3
14°	3593.5	3539.9	3728.8	4082.5	4142.5
15°	3550.1	3527.2	3799.1	4134.8	4138.6
16°	3520.8	3518.2	3880.8	4138.6	4067.1
17°	3487.6	3514.4	3947.1	4072.2	3988.0
18°	3450.6	3522.0	4002.0	3989.3	3892.2
19°	3408.4	3529.7	4025.0	3874.4	3749.3
20°	3362.5	3541.2	4012.2	3754.4	3552.7
21°	3316.5	3556.5	3988.0	3628.0	3294.8
22.5°	3231.0	3593.5	3873.1	3273.1	2868.4
23°	3206.7	3601.2	3846.3	3162.1	2757.4
24°	3146.7	3633.1	3723.7	2902.9	2463.8
25°	3093.1	3667.6	3619.1	2628.4	2222.5
26°	3033.1	3693.1	3460.8	2375.7	2074.4
27°	2974.4	3708.4	3280.8	2179.1	1908.5
28°	2906.7	3725.0	3085.5	2009.3	1783.4
29°	2842.9	3727.6	2892.7	1874.0	1685.1
30°	2774.0	3714.8	2689.7	1765.5	1623.8
32.5°	2623.3	3644.6	2193.1	1558.7	1470.6
35°	2485.5	3487.6	1838.3	1415.7	1372.3
37.5°	2346.3	3239.9	1589.3	1326.4	1312.3
40°	2209.7	2946.3	1401.7	1254.9	1257.4
42.5°	2065.5	2643.8	1272.7	1196.1	1207.6
45°	1914.8	2346.3	1163.0	1148.9	1173.2
47.5°	1747.6	2074.4	1076.1	1118.3	1155.3
50°	1589.3	1805.1	1008.5	1088.9	1127.2
52.5°	1438.7	1584.2	947.2	1039.1	1083.8
55°	1275.3	1387.6	873.2	975.3	1012.3
57.5°	1119.5	1210.2	795.3	896.1	929.3
60°	948.5	1035.3	716.2	810.6	842.5
62.5°	794.0	885.9	648.5	725.1	750.6
65°	657.4	748.1	584.7	649.8	670.2



TEST NUMBER: P567010

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	536.2	633.2	532.3	587.2	606.4
70°	422.5	524.7	486.4	536.2	556.6
72.5°	330.6	434.0	448.1	494.0	514.5
75°	252.8	353.6	412.3	462.1	483.8
77.5°	187.7	288.5	379.1	436.6	459.6
80°	123.8	229.8	349.8	413.6	440.4
82.5°	77.9	185.1	320.4	390.6	418.7
85°	38.3	150.6	292.3	370.2	395.7
87.5°	12.8	125.1	266.8	349.8	371.5
90°	1.3	104.7	243.8	328.1	349.8
92.5°	1.3	90.6	224.7	302.5	324.2
95°	1.3	80.4	205.5	278.3	297.4
97.5°	1.3	72.8	187.7	252.8	273.2
100°	1.3	65.1	168.5	228.5	250.2
102.5°	2.6	60.0	151.9	208.1	231.1
105°	2.6	56.2	135.3	190.2	213.2
107.5°	2.6	53.6	121.3	176.2	197.9
110°	2.6	51.1	111.1	163.4	186.4
112.5°	2.6	49.8	104.7	151.9	173.6
115°	2.6	48.5	99.6	141.7	159.6
117.5°	3.8	47.2	95.7	131.5	145.5
120°	3.8	44.7	93.2	122.6	134.0
122.5°	3.8	42.1	89.4	114.9	123.8
125°	3.8	40.9	85.5	107.2	114.9
127.5°	3.8	38.3	81.7	100.8	108.5
130°	5.1	35.7	77.9	95.7	102.1
132.5°	5.1	33.2	74.0	93.2	98.3
135°	5.1	31.9	70.2	89.4	94.5
137.5°	5.1	29.4	66.4	85.5	90.6
140°	5.1	26.8	61.3	80.4	85.5
142.5°	5.1	25.5	56.2	75.3	80.4
145°	5.1	23.0	49.8	68.9	75.3
147.5°	6.4	21.7	44.7	63.8	68.9
150°	6.4	19.1	39.6	58.7	63.8
152.5°	6.4	16.6	34.5	52.3	57.4
155°	6.4	14.0	30.6	46.0	52.3
157.5°	6.4	12.8	26.8	38.3	46.0
160°	6.4	11.5	23.0	33.2	39.6
162.5°	6.4	10.2	20.4	28.1	34.5
165°	6.4	8.9	16.6	23.0	28.1
167.5°	7.7	8.9	14.0	17.9	23.0
170°	7.7	8.9	11.5	14.0	17.9
172.5°	7.7	7.7	8.9	10.2	11.5
175°	7.7	7.7	7.7	7.7	6.4
177.5°	7.7	7.7	7.7	6.4	6.4



TEST NUMBER: P567010

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.4	6.4	6.4	6.4	6.4

(END OF REPORT)