

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: P567011

Luminaire Tested: **4SNX-93HL-LC-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567011
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-L935-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

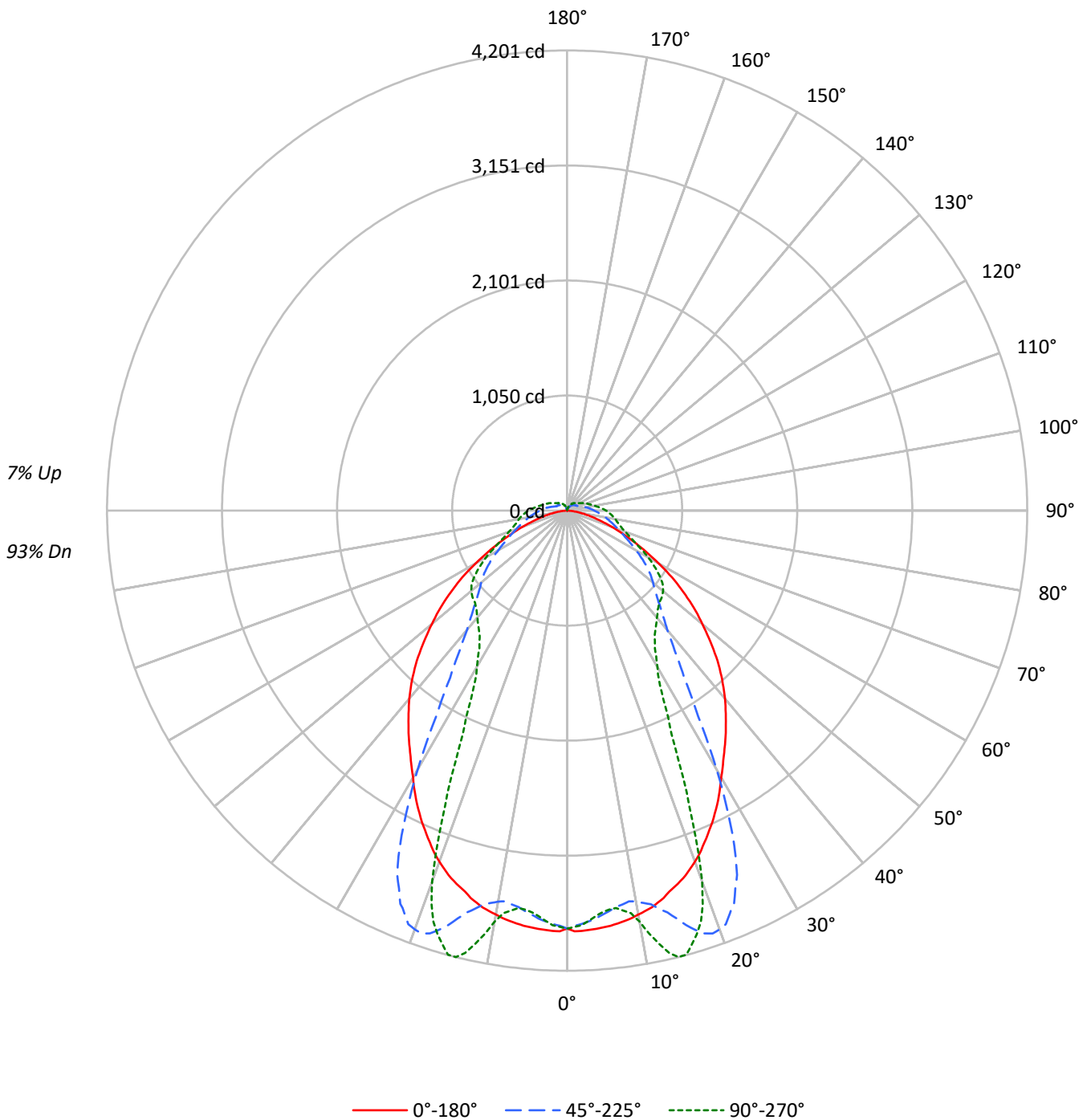
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8480.0 lumens
Efficiency: N/A
Efficacy: 125.8 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 (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: P567011
CATALOG NUMBER: 4SNX-93HL-LC-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567011

CATALOG NUMBER: 4SNX-93HL-LC-UNV-L935-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	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°	41071	41071	41071
5°	41120	38330	37594
10°	40628	36396	37279
15°	39682	37857	39686
20°	38480	39426	33214
25°	36548	35340	20422
30°	34148	26301	14780
35°	32185	18138	12468
40°	30428	14064	11491
45°	28381	11963	10868
50°	25715	10725	10669
55°	22909	9689	9870
60°	19316	8372	8537
65°	15590	7282	7125
70°	12103	6534	6274
75°	9228	6062	5851
80°	6297	5726	5792
85°	3246	5445	5751



TEST NUMBER: P567011

CATALOG NUMBER: 4SNX-93HL-LC-UNV-L935-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.0	4.2
10°-20°	1084.9	12.8
20°-30°	1460.8	17.2
30°-40°	1382.5	16.3
40°-50°	1220.3	14.4
50°-60°	991.1	11.7
60°-70°	674.1	7.9
70°-80°	433.7	5.1
80°-90°	288.4	3.4
90°-100°	198.2	2.3
100°-110°	133.1	1.6
110°-120°	93.8	1.1
120°-130°	67.0	0.8
130°-140°	47.3	0.6
140°-150°	29.4	0.3
150°-160°	14.3	0.2
160°-170°	5.0	0.1
170°-180°	0.9	0.0
0°-30°	2900.8	34.2
0°-40°	4283.3	50.5
0°-60°	6494.7	76.6
0°-90°	7891.0	93.1
90°-120°	425.1	5.0
90°-150°	568.8	6.7
90°-180°	589.0	6.9
0°-180°	8480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3816	3816	3816	3816	3816	
5°	3820	3784	3703	3700	3682	362
15°	3601	3577	3853	4194	4198	1015
25°	3137	3720	3671	2666	2254	1440
35°	2521	3537	1864	1436	1392	1577
45°	1942	2380	1180	1165	1190	1491
55°	1293	1407	886	989	1027	1155
65°	667	759	593	659	680	669
75°	256	359	418	469	491	279
85°	39	153	296	376	401	51
90°	1	106	247	333	355	2
95°	1	82	208	282	302	1
105°	3	57	137	193	216	3
115°	3	49	101	144	162	3
125°	4	41	87	109	116	4
135°	5	32	71	91	96	4
145°	5	23	50	70	76	4
155°	6	14	31	47	53	3
165°	6	9	17	23	28	2
175°	8	8	8	8	6	1
180°	6	6	6	6	6	



TEST NUMBER: P567011

CATALOG NUMBER: 4SNX-93HL-LC-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3815.6	3815.6	3815.6	3815.6	3815.6
1°	3841.5	3829.8	3791.0	3811.7	3801.3
2°	3840.2	3820.8	3776.7	3800.0	3787.1
3°	3833.7	3813.0	3756.0	3770.3	3750.8
4°	3827.2	3802.6	3734.0	3734.0	3712.0
5°	3819.5	3784.5	3702.9	3700.4	3682.2
6°	3810.4	3770.3	3675.8	3673.2	3662.8
7°	3797.5	3745.7	3646.0	3664.1	3656.3
8°	3781.9	3722.4	3630.4	3675.8	3687.4
9°	3767.7	3693.9	3612.3	3712.0	3721.1
10°	3744.4	3668.0	3624.0	3784.5	3811.7
11°	3725.0	3646.0	3649.9	3855.7	3937.3
12°	3705.5	3622.7	3674.5	3945.1	4044.8
13°	3673.2	3604.5	3728.8	4042.2	4144.4
14°	3644.7	3590.3	3781.9	4140.6	4201.4
15°	3600.7	3577.4	3853.1	4193.6	4197.5
16°	3570.9	3568.3	3936.0	4197.5	4125.0
17°	3537.2	3564.4	4003.3	4130.2	4044.8
18°	3499.7	3572.2	4059.0	4046.0	3947.6
19°	3456.9	3579.9	4082.3	3929.5	3802.6
20°	3410.3	3591.6	4069.4	3807.8	3603.2
21°	3363.7	3607.1	4044.8	3679.6	3341.7
22.5°	3277.0	3644.7	3928.2	3319.7	2909.3
23°	3252.4	3652.4	3901.0	3207.1	2796.6
24°	3191.5	3684.8	3776.7	2944.2	2498.8
25°	3137.1	3719.8	3670.6	2665.9	2254.1
26°	3076.3	3745.7	3510.0	2409.5	2103.9
27°	3016.7	3761.2	3327.5	2210.1	1935.6
28°	2948.1	3778.0	3129.4	2037.9	1808.7
29°	2883.4	3780.6	2933.9	1900.7	1709.0
30°	2813.5	3767.7	2728.0	1790.6	1646.9
32.5°	2660.7	3696.5	2224.4	1580.9	1491.5
35°	2520.8	3537.2	1864.4	1435.9	1391.8
37.5°	2379.7	3286.0	1611.9	1345.2	1331.0
40°	2241.2	2988.2	1421.6	1272.7	1275.3
42.5°	2094.9	2681.4	1290.9	1213.2	1224.8
45°	1942.1	2379.7	1179.5	1165.3	1189.9
47.5°	1772.5	2103.9	1091.5	1134.2	1171.7
50°	1611.9	1830.8	1022.8	1104.4	1143.3
52.5°	1459.2	1606.8	960.7	1053.9	1099.2
55°	1293.4	1407.4	885.6	989.2	1026.7
57.5°	1135.5	1227.4	806.6	908.9	942.6
60°	962.0	1050.0	726.3	822.2	854.5
62.5°	805.3	898.5	657.7	735.4	761.3
65°	666.8	758.7	593.0	659.0	679.7



TEST NUMBER: P567011

CATALOG NUMBER: 4SNX-93HL-LC-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	543.8	642.2	539.9	595.6	615.0
70°	428.6	532.1	493.3	543.8	564.5
72.5°	335.3	440.2	454.5	501.1	521.8
75°	256.4	358.6	418.2	468.7	490.7
77.5°	190.3	292.6	384.5	442.8	466.1
80°	125.6	233.1	354.8	419.5	446.7
82.5°	79.0	187.7	325.0	396.2	424.7
85°	38.8	152.8	296.5	375.5	401.4
87.5°	12.9	126.9	270.6	354.8	376.8
90°	1.3	106.2	247.3	332.7	354.8
92.5°	1.3	91.9	227.9	306.9	328.9
95°	1.3	81.6	208.5	282.3	301.7
97.5°	1.3	73.8	190.3	256.4	277.1
100°	1.3	66.0	170.9	231.8	253.8
102.5°	2.6	60.9	154.1	211.0	234.3
105°	2.6	57.0	137.2	192.9	216.2
107.5°	2.6	54.4	123.0	178.7	200.7
110°	2.6	51.8	112.6	165.7	189.0
112.5°	2.6	50.5	106.2	154.1	176.1
115°	2.6	49.2	101.0	143.7	161.8
117.5°	3.9	47.9	97.1	133.4	147.6
120°	3.9	45.3	94.5	124.3	135.9
122.5°	3.9	42.7	90.6	116.5	125.6
125°	3.9	41.4	86.7	108.8	116.5
127.5°	3.9	38.8	82.9	102.3	110.1
130°	5.2	36.3	79.0	97.1	103.6
132.5°	5.2	33.7	75.1	94.5	99.7
135°	5.2	32.4	71.2	90.6	95.8
137.5°	5.2	29.8	67.3	86.7	91.9
140°	5.2	27.2	62.1	81.6	86.7
142.5°	5.2	25.9	57.0	76.4	81.6
145°	5.2	23.3	50.5	69.9	76.4
147.5°	6.5	22.0	45.3	64.7	69.9
150°	6.5	19.4	40.1	59.6	64.7
152.5°	6.5	16.8	35.0	53.1	58.3
155°	6.5	14.2	31.1	46.6	53.1
157.5°	6.5	12.9	27.2	38.8	46.6
160°	6.5	11.7	23.3	33.7	40.1
162.5°	6.5	10.4	20.7	28.5	35.0
165°	6.5	9.1	16.8	23.3	28.5
167.5°	7.8	9.1	14.2	18.1	23.3
170°	7.8	9.1	11.7	14.2	18.1
172.5°	7.8	7.8	9.1	10.4	11.7
175°	7.8	7.8	7.8	7.8	6.5
177.5°	7.8	7.8	7.8	6.5	6.5



TEST NUMBER: P567011

CATALOG NUMBER: 4SNX-93HL-LC-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.5	6.5	6.5	6.5	6.5

(END OF REPORT)