

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: P567012

Luminaire Tested: **4SNX-93HL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567012
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-L940-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

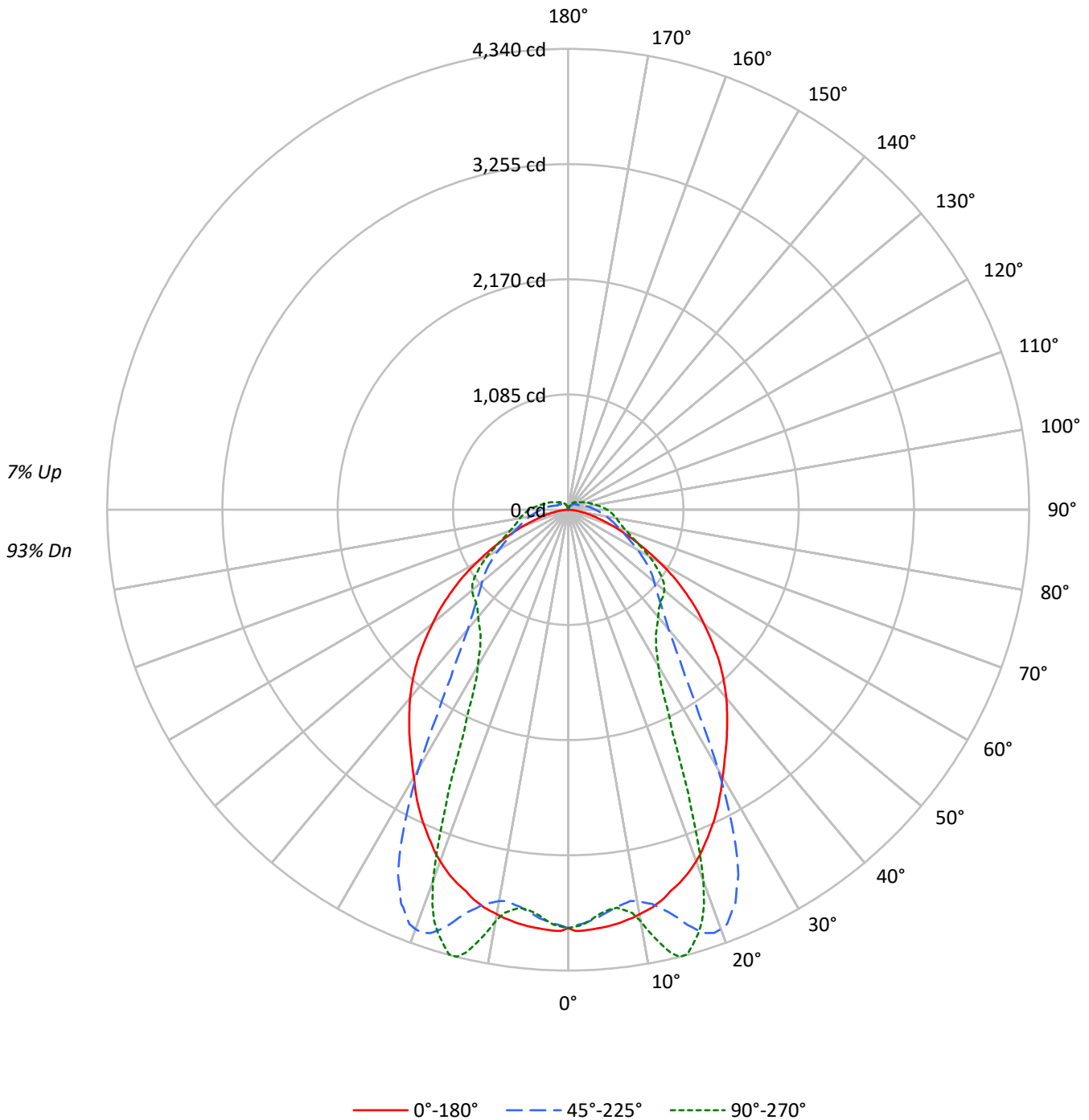
Lumens per Lamp: N/A
Luminaire Lumens: 8759.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

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

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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	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°	42422	42422	42422
5°	42472	39592	38831
10°	41964	37593	38506
15°	40987	39103	40992
20°	39746	40723	34307
25°	37752	36502	21095
30°	35270	27167	15267
35°	33245	18735	12879
40°	31428	14527	11870
45°	29315	12356	11225
50°	26563	11079	11020
55°	23664	10007	10195
60°	19950	8648	8818
65°	16102	7521	7360
70°	12501	6748	6481
75°	9531	6262	6043
80°	6503	5914	5982
85°	3355	5623	5940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.7	4.2
10°-20°	1120.6	12.8
20°-30°	1508.9	17.2
30°-40°	1428.0	16.3
40°-50°	1260.4	14.4
50°-60°	1023.7	11.7
60°-70°	696.3	7.9
70°-80°	448.0	5.1
80°-90°	297.9	3.4
90°-100°	204.7	2.3
100°-110°	137.4	1.6
110°-120°	96.9	1.1
120°-130°	69.2	0.8
130°-140°	48.9	0.6
140°-150°	30.3	0.3
150°-160°	14.8	0.2
160°-170°	5.2	0.1
170°-180°	0.9	0.0
0°-30°	2996.2	34.2
0°-40°	4424.2	50.5
0°-60°	6708.4	76.6
0°-90°	8150.6	93.1
90°-120°	439.1	5.0
90°-150°	587.5	6.7
90°-180°	608.0	6.9
0°-180°	8759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3941	3941	3941	3941	3941	
5°	3945	3909	3825	3822	3803	374
15°	3719	3695	3980	4332	4336	1048
25°	3240	3842	3791	2754	2328	1487
35°	2604	3654	1926	1483	1438	1629
45°	2006	2458	1218	1204	1229	1540
55°	1336	1454	915	1022	1060	1193
65°	689	784	612	681	702	691
75°	265	370	432	484	507	288
85°	40	158	306	388	415	53
90°	1	110	255	344	366	2
95°	1	84	215	292	312	1
105°	3	59	142	199	223	3
115°	3	51	104	148	167	3
125°	4	43	90	112	120	4
135°	5	33	74	94	99	4
145°	5	24	52	72	79	4
155°	7	15	32	48	55	3
165°	7	9	17	24	29	2
175°	8	8	8	8	7	1
180°	7	7	7	7	7	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3941.1	3941.1	3941.1	3941.1	3941.1
1°	3967.9	3955.8	3915.7	3937.1	3926.4
2°	3966.5	3946.5	3901.0	3925.1	3911.7
3°	3959.8	3938.4	3879.6	3894.3	3874.3
4°	3953.2	3927.7	3856.9	3856.9	3834.1
5°	3945.1	3909.0	3824.8	3822.1	3803.4
6°	3935.8	3894.3	3796.7	3794.0	3783.3
7°	3922.4	3868.9	3765.9	3784.7	3776.6
8°	3906.3	3844.8	3749.9	3796.7	3808.7
9°	3891.6	3815.4	3731.2	3834.1	3843.5
10°	3867.6	3788.7	3743.2	3909.0	3937.1
11°	3847.5	3765.9	3769.9	3982.6	4066.8
12°	3827.4	3741.9	3795.3	4074.9	4177.8
13°	3794.0	3723.1	3851.5	4175.2	4280.8
14°	3764.6	3708.4	3906.3	4276.8	4339.6
15°	3719.1	3695.0	3979.9	4331.6	4335.6
16°	3688.4	3685.7	4065.5	4335.6	4260.7
17°	3653.6	3681.7	4135.0	4266.1	4177.8
18°	3614.8	3689.7	4192.5	4179.2	4077.5
19°	3570.7	3697.7	4216.6	4058.8	3927.7
20°	3522.5	3709.8	4203.2	3933.1	3721.8
21°	3474.4	3725.8	4177.8	3800.7	3451.7
22.5°	3384.8	3764.6	4057.5	3428.9	3005.0
23°	3359.4	3772.6	4029.4	3312.6	2888.6
24°	3296.5	3806.0	3901.0	3041.1	2581.1
25°	3240.4	3842.2	3791.3	2753.6	2328.3
26°	3177.5	3868.9	3625.5	2488.8	2173.2
27°	3116.0	3885.0	3436.9	2282.8	1999.3
28°	3045.1	3902.3	3232.3	2105.0	1868.3
29°	2978.2	3905.0	3030.4	1963.2	1765.3
30°	2906.0	3891.6	2817.8	1849.5	1701.1
32.5°	2748.2	3818.1	2297.5	1632.9	1540.6
35°	2603.8	3653.6	1925.8	1483.1	1437.6
37.5°	2458.0	3394.1	1665.0	1389.5	1374.8
40°	2314.9	3086.6	1468.4	1314.6	1317.3
42.5°	2163.8	2769.6	1333.3	1253.1	1265.1
45°	2006.0	2458.0	1218.3	1203.6	1229.0
47.5°	1830.8	2173.2	1127.4	1171.5	1210.3
50°	1665.0	1891.0	1056.5	1140.7	1180.9
52.5°	1507.2	1659.6	992.3	1088.6	1135.4
55°	1336.0	1453.7	914.7	1021.7	1060.5
57.5°	1172.8	1267.8	833.2	938.8	973.6
60°	993.6	1084.6	750.2	849.2	882.6
62.5°	831.8	928.1	679.4	759.6	786.4
65°	688.7	783.7	612.5	680.7	702.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	561.7	663.3	557.7	615.2	635.2
70°	442.7	549.6	509.5	561.7	583.1
72.5°	346.4	454.7	469.4	517.5	538.9
75°	264.8	370.4	432.0	484.1	506.8
77.5°	196.6	302.2	397.2	457.4	481.4
80°	129.7	240.7	366.4	433.3	461.4
82.5°	81.6	193.9	335.7	409.2	438.6
85°	40.1	157.8	306.2	387.8	414.6
87.5°	13.4	131.1	279.5	366.4	389.2
90°	1.3	109.7	255.4	343.7	366.4
92.5°	1.3	95.0	235.4	316.9	339.7
95°	1.3	84.3	215.3	291.5	311.6
97.5°	1.3	76.2	196.6	264.8	286.2
100°	1.3	68.2	176.5	239.4	262.1
102.5°	2.7	62.9	159.1	218.0	242.1
105°	2.7	58.8	141.8	199.3	223.3
107.5°	2.7	56.2	127.0	184.6	207.3
110°	2.7	53.5	116.3	171.2	195.3
112.5°	2.7	52.2	109.7	159.1	181.9
115°	2.7	50.8	104.3	148.4	167.2
117.5°	4.0	49.5	100.3	137.7	152.5
120°	4.0	46.8	97.6	128.4	140.4
122.5°	4.0	44.1	93.6	120.4	129.7
125°	4.0	42.8	89.6	112.3	120.4
127.5°	4.0	40.1	85.6	105.6	113.7
130°	5.3	37.4	81.6	100.3	107.0
132.5°	5.3	34.8	77.6	97.6	103.0
135°	5.3	33.4	73.6	93.6	99.0
137.5°	5.3	30.8	69.5	89.6	95.0
140°	5.3	28.1	64.2	84.3	89.6
142.5°	5.3	26.7	58.8	78.9	84.3
145°	5.3	24.1	52.2	72.2	78.9
147.5°	6.7	22.7	46.8	66.9	72.2
150°	6.7	20.1	41.5	61.5	66.9
152.5°	6.7	17.4	36.1	54.8	60.2
155°	6.7	14.7	32.1	48.1	54.8
157.5°	6.7	13.4	28.1	40.1	48.1
160°	6.7	12.0	24.1	34.8	41.5
162.5°	6.7	10.7	21.4	29.4	36.1
165°	6.7	9.4	17.4	24.1	29.4
167.5°	8.0	9.4	14.7	18.7	24.1
170°	8.0	9.4	12.0	14.7	18.7
172.5°	8.0	8.0	9.4	10.7	12.0
175°	8.0	8.0	8.0	8.0	6.7
177.5°	8.0	8.0	8.0	6.7	6.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.7	6.7	6.7	6.7	6.7

(END OF REPORT)