

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: P566962

Luminaire Tested: **4SNX-90HL-LC-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566962
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-90HL-LC-UNV-L930-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

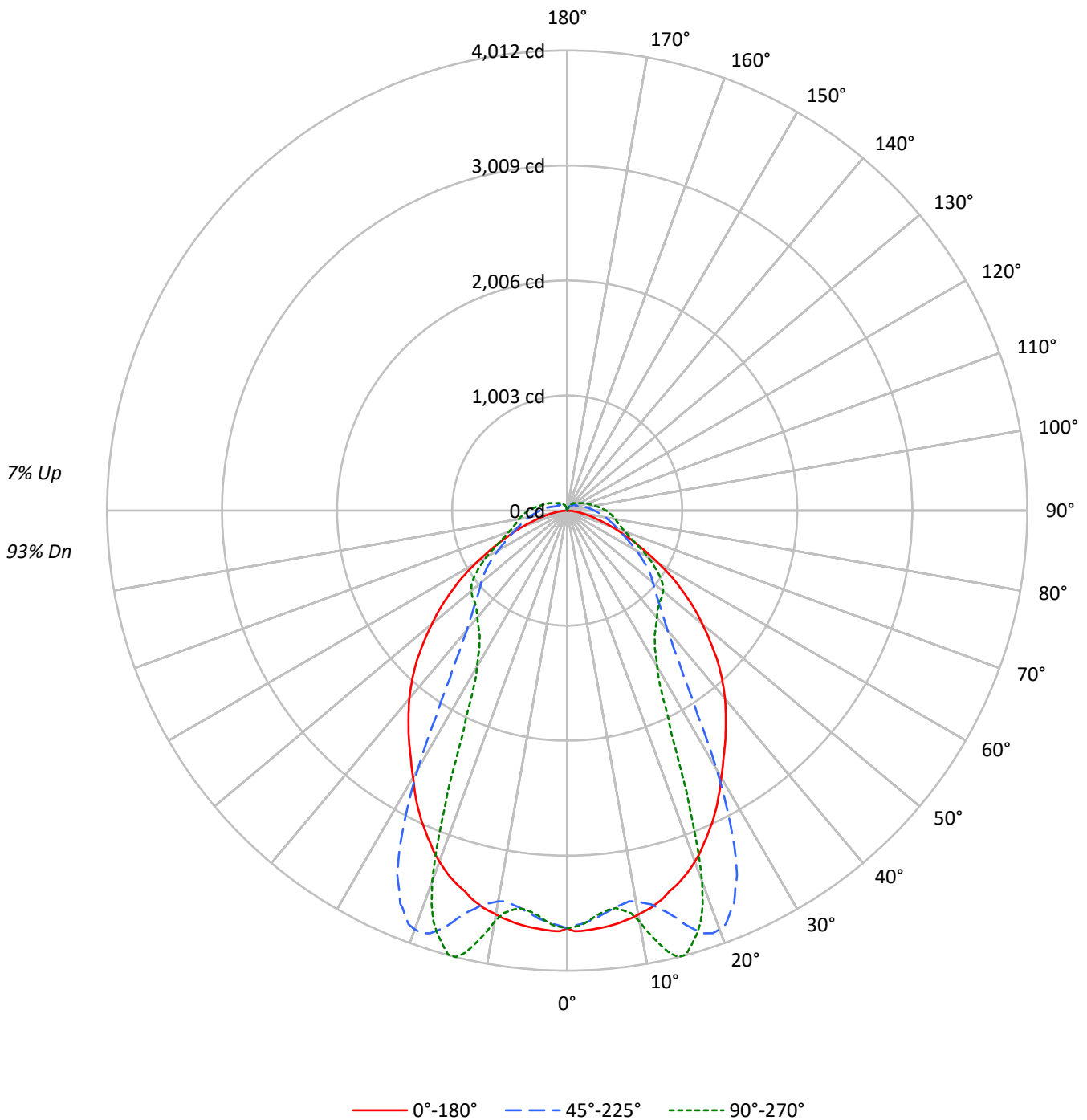
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8097.0 lumens
Efficiency: N/A
Efficacy: 125.7 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): 64.4
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	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	37	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°	39216	39216	39216
5°	39263	36600	35896
10°	38793	34752	35595
15°	37889	36147	37893
20°	36743	37646	31714
25°	34898	33744	19500
30°	32605	25113	14113
35°	30732	17318	11906
40°	29054	13429	10972
45°	27099	11422	10376
50°	24554	10241	10186
55°	21875	9251	9425
60°	18442	7994	8152
65°	14886	6953	6803
70°	11555	6238	5990
75°	8811	5788	5586
80°	6012	5467	5530
85°	3104	5199	5490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.0	4.2
10°-20°	1035.9	12.8
20°-30°	1394.9	17.2
30°-40°	1320.1	16.3
40°-50°	1165.2	14.4
50°-60°	946.4	11.7
60°-70°	643.6	7.9
70°-80°	414.1	5.1
80°-90°	275.4	3.4
90°-100°	189.3	2.3
100°-110°	127.0	1.6
110°-120°	89.6	1.1
120°-130°	64.0	0.8
130°-140°	45.2	0.6
140°-150°	28.0	0.3
150°-160°	13.7	0.2
160°-170°	4.8	0.1
170°-180°	0.8	0.0
0°-30°	2769.8	34.2
0°-40°	4089.9	50.5
0°-60°	6201.4	76.6
0°-90°	7534.6	93.1
90°-120°	405.9	5.0
90°-150°	543.1	6.7
90°-180°	562.0	6.9
0°-180°	8097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3643	3643	3643	3643	3643	
5°	3647	3614	3536	3533	3516	346
15°	3438	3416	3679	4004	4008	969
25°	2996	3552	3505	2546	2152	1375
35°	2407	3378	1780	1371	1329	1506
45°	1854	2272	1126	1113	1136	1424
55°	1235	1344	846	944	980	1103
65°	637	724	566	629	649	639
75°	245	342	399	448	468	266
85°	37	146	283	358	383	49
90°	1	101	236	318	339	2
95°	1	78	199	270	288	1
105°	2	54	131	184	206	2
115°	2	47	96	137	154	3
125°	4	40	83	104	111	3
135°	5	31	68	86	92	4
145°	5	22	48	67	73	3
155°	6	14	30	44	51	3
165°	6	9	16	22	27	2
175°	7	7	7	7	6	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3643.3	3643.3	3643.3	3643.3	3643.3
1°	3668.0	3656.8	3619.8	3639.5	3629.7
2°	3666.7	3648.2	3606.2	3628.4	3616.1
3°	3660.6	3640.8	3586.4	3600.0	3581.4
4°	3654.4	3630.9	3565.4	3565.4	3544.4
5°	3647.0	3613.6	3535.7	3533.2	3515.9
6°	3638.3	3600.0	3509.7	3507.3	3497.4
7°	3625.9	3576.5	3481.3	3498.6	3491.2
8°	3611.1	3554.2	3466.5	3509.7	3520.9
9°	3597.5	3527.0	3449.2	3544.4	3553.0
10°	3575.3	3502.3	3460.3	3613.6	3639.5
11°	3556.7	3481.3	3485.0	3681.6	3759.5
12°	3538.2	3459.0	3508.5	3766.9	3862.1
13°	3507.3	3441.7	3560.4	3859.6	3957.3
14°	3480.1	3428.1	3611.1	3953.6	4011.7
15°	3438.0	3415.8	3679.1	4004.2	4007.9
16°	3409.6	3407.1	3758.2	4007.9	3938.7
17°	3377.5	3403.4	3822.5	3943.7	3862.1
18°	3341.6	3410.8	3875.7	3863.3	3769.3
19°	3300.8	3418.3	3897.9	3752.0	3630.9
20°	3256.3	3429.4	3885.6	3635.8	3440.5
21°	3211.8	3444.2	3862.1	3513.4	3190.8
22.5°	3129.0	3480.1	3750.8	3169.8	2777.9
23°	3105.5	3487.5	3724.8	3062.2	2670.3
24°	3047.4	3518.4	3606.2	2811.2	2386.0
25°	2995.5	3551.8	3504.8	2545.5	2152.3
26°	2937.3	3576.5	3351.5	2300.7	2008.9
27°	2880.5	3591.3	3177.2	2110.3	1848.2
28°	2815.0	3607.4	2988.0	1945.9	1727.1
29°	2753.1	3609.9	2801.4	1814.8	1631.9
30°	2686.4	3597.5	2604.8	1709.7	1572.5
32.5°	2540.5	3529.5	2123.9	1509.5	1424.2
35°	2407.0	3377.5	1780.2	1371.0	1329.0
37.5°	2272.2	3137.6	1539.1	1284.5	1270.9
40°	2140.0	2853.3	1357.4	1215.2	1217.7
42.5°	2000.3	2560.3	1232.5	1158.4	1169.5
45°	1854.4	2272.2	1126.2	1112.6	1136.1
47.5°	1692.4	2008.9	1042.2	1083.0	1118.8
50°	1539.1	1748.1	976.6	1054.5	1091.6
52.5°	1393.3	1534.2	917.3	1006.3	1049.6
55°	1235.0	1343.8	845.6	944.5	980.4
57.5°	1084.2	1172.0	770.2	867.9	900.0
60°	918.5	1002.6	693.5	785.0	815.9
62.5°	769.0	858.0	628.0	702.2	726.9
65°	636.7	724.4	566.2	629.3	649.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	519.2	613.2	515.5	568.7	587.2
70°	409.2	508.1	471.0	519.2	539.0
72.5°	320.2	420.3	433.9	478.4	498.2
75°	244.8	342.4	399.3	447.5	468.5
77.5°	181.7	279.4	367.2	422.8	445.1
80°	119.9	222.5	338.7	400.5	426.5
82.5°	75.4	179.3	310.3	378.3	405.5
85°	37.1	145.9	283.1	358.5	383.2
87.5°	12.4	121.2	258.4	338.7	359.8
90°	1.2	101.4	236.1	317.7	338.7
92.5°	1.2	87.8	217.6	293.0	314.0
95°	1.2	77.9	199.0	269.5	288.0
97.5°	1.2	70.5	181.7	244.8	264.6
100°	1.2	63.0	163.2	221.3	242.3
102.5°	2.5	58.1	147.1	201.5	223.8
105°	2.5	54.4	131.0	184.2	206.5
107.5°	2.5	51.9	117.4	170.6	191.6
110°	2.5	49.5	107.6	158.2	180.5
112.5°	2.5	48.2	101.4	147.1	168.1
115°	2.5	47.0	96.4	137.2	154.5
117.5°	3.7	45.7	92.7	127.3	140.9
120°	3.7	43.3	90.2	118.7	129.8
122.5°	3.7	40.8	86.5	111.3	119.9
125°	3.7	39.6	82.8	103.8	111.3
127.5°	3.7	37.1	79.1	97.7	105.1
130°	4.9	34.6	75.4	92.7	98.9
132.5°	4.9	32.1	71.7	90.2	95.2
135°	4.9	30.9	68.0	86.5	91.5
137.5°	4.9	28.4	64.3	82.8	87.8
140°	4.9	26.0	59.3	77.9	82.8
142.5°	4.9	24.7	54.4	72.9	77.9
145°	4.9	22.3	48.2	66.8	72.9
147.5°	6.2	21.0	43.3	61.8	66.8
150°	6.2	18.5	38.3	56.9	61.8
152.5°	6.2	16.1	33.4	50.7	55.6
155°	6.2	13.6	29.7	44.5	50.7
157.5°	6.2	12.4	26.0	37.1	44.5
160°	6.2	11.1	22.3	32.1	38.3
162.5°	6.2	9.9	19.8	27.2	33.4
165°	6.2	8.7	16.1	22.3	27.2
167.5°	7.4	8.7	13.6	17.3	22.3
170°	7.4	8.7	11.1	13.6	17.3
172.5°	7.4	7.4	8.7	9.9	11.1
175°	7.4	7.4	7.4	7.4	6.2
177.5°	7.4	7.4	7.4	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.2	6.2	6.2	6.2	6.2

(END OF REPORT)