

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: P566914

Luminaire Tested: **4SNX-87HL-LC-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566914
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-87HL-LC-UNV-L930-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

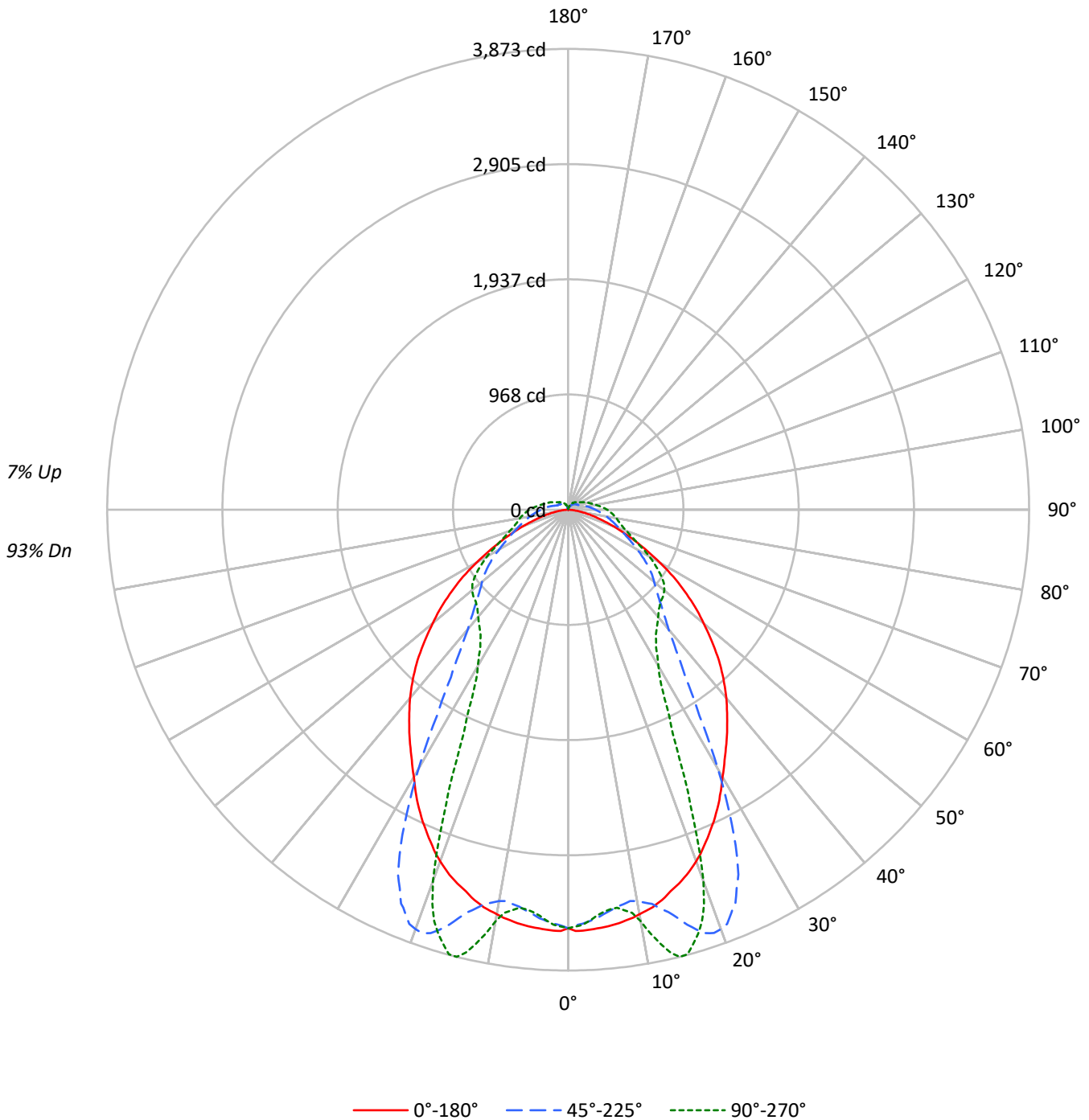
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7817.0 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): 62.2
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	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°	37860	37860	37860
5°	37904	35334	34654
10°	37451	33550	34365
15°	36578	34897	36583
20°	35472	36343	30617
25°	33692	32577	18826
30°	31478	24244	13624
35°	29670	16719	11494
40°	28049	12965	10593
45°	26163	11028	10018
50°	23705	9887	9835
55°	21118	8932	9099
60°	17806	7719	7870
65°	14372	6712	6568
70°	11157	6022	5784
75°	8505	5588	5393
80°	5806	5278	5339
85°	2995	5019	5301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.3	4.2
10°-20°	1000.1	12.8
20°-30°	1346.6	17.2
30°-40°	1274.4	16.3
40°-50°	1124.9	14.4
50°-60°	913.6	11.7
60°-70°	621.4	7.9
70°-80°	399.8	5.1
80°-90°	265.9	3.4
90°-100°	182.7	2.3
100°-110°	122.6	1.6
110°-120°	86.5	1.1
120°-130°	61.8	0.8
130°-140°	43.6	0.6
140°-150°	27.1	0.3
150°-160°	13.2	0.2
160°-170°	4.6	0.1
170°-180°	0.8	0.0
0°-30°	2674.0	34.2
0°-40°	3948.4	50.5
0°-60°	5987.0	76.6
0°-90°	7274.0	93.1
90°-120°	391.9	5.0
90°-150°	524.3	6.7
90°-180°	543.0	6.9
0°-180°	7817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3517	3517	3517	3517	3517	
5°	3521	3489	3413	3411	3394	334
15°	3319	3298	3552	3866	3869	936
25°	2892	3429	3384	2457	2078	1327
35°	2324	3261	1719	1324	1283	1454
45°	1790	2194	1087	1074	1097	1375
55°	1192	1297	816	912	946	1065
65°	615	699	547	608	627	617
75°	236	331	386	432	452	257
85°	36	141	273	346	370	47
90°	1	98	228	307	327	2
95°	1	75	192	260	278	1
105°	2	52	126	178	199	2
115°	2	45	93	132	149	3
125°	4	38	80	100	107	3
135°	5	30	66	84	88	4
145°	5	22	46	64	70	3
155°	6	13	29	43	49	3
165°	6	8	16	22	26	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°	3517.3	3517.3	3517.3	3517.3	3517.3
1°	3541.1	3530.4	3494.6	3513.7	3504.1
2°	3539.9	3522.0	3481.5	3502.9	3491.0
3°	3534.0	3514.9	3462.4	3475.5	3457.6
4°	3528.0	3505.3	3442.1	3442.1	3421.8
5°	3520.8	3488.6	3413.4	3411.0	3394.3
6°	3512.5	3475.5	3388.4	3386.0	3376.4
7°	3500.6	3452.8	3360.9	3377.6	3370.5
8°	3486.2	3431.3	3346.6	3388.4	3399.1
9°	3473.1	3405.1	3329.9	3421.8	3430.1
10°	3451.6	3381.2	3340.6	3488.6	3513.7
11°	3433.7	3360.9	3364.5	3554.3	3629.5
12°	3415.8	3339.4	3387.2	3636.6	3728.5
13°	3386.0	3322.7	3437.3	3726.1	3820.4
14°	3359.7	3309.6	3486.2	3816.8	3872.9
15°	3319.1	3297.7	3551.9	3865.8	3869.3
16°	3291.7	3289.3	3628.3	3869.3	3802.5
17°	3260.7	3285.7	3690.3	3807.3	3728.5
18°	3226.0	3292.9	3741.6	3729.7	3639.0
19°	3186.7	3300.0	3763.1	3622.3	3505.3
20°	3143.7	3310.8	3751.2	3510.1	3321.5
21°	3100.7	3325.1	3728.5	3391.9	3080.4
22.5°	3020.8	3359.7	3621.1	3060.2	2681.8
23°	2998.1	3366.9	3596.0	2956.3	2578.0
24°	2942.0	3396.7	3481.5	2714.0	2303.5
25°	2891.9	3428.9	3383.6	2457.4	2077.9
26°	2835.8	3452.8	3235.6	2221.1	1939.4
27°	2780.9	3467.1	3067.3	2037.3	1784.3
28°	2717.6	3482.7	2884.7	1878.6	1667.3
29°	2657.9	3485.0	2704.5	1752.1	1575.4
30°	2593.5	3473.1	2514.7	1650.6	1518.1
32.5°	2452.7	3407.5	2050.4	1457.3	1374.9
35°	2323.8	3260.7	1718.6	1323.6	1283.0
37.5°	2193.7	3029.1	1485.9	1240.1	1226.9
40°	2066.0	2754.6	1310.5	1173.2	1175.6
42.5°	1931.1	2471.8	1189.9	1118.3	1129.1
45°	1790.3	2193.7	1087.3	1074.2	1096.8
47.5°	1633.9	1939.4	1006.1	1045.5	1080.1
50°	1485.9	1687.6	942.9	1018.1	1053.9
52.5°	1345.1	1481.1	885.6	971.5	1013.3
55°	1192.3	1297.3	816.4	911.8	946.5
57.5°	1046.7	1131.4	743.6	837.8	868.9
60°	886.8	967.9	669.6	757.9	787.7
62.5°	742.4	828.3	606.3	677.9	701.8
65°	614.7	699.4	546.6	607.5	626.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	501.3	592.0	497.7	549.0	566.9
70°	395.1	490.5	454.7	501.3	520.4
72.5°	309.1	405.8	418.9	461.9	481.0
75°	236.3	330.6	385.5	432.0	452.3
77.5°	175.4	269.7	354.5	408.2	429.7
80°	115.8	214.8	327.0	386.7	411.8
82.5°	72.8	173.1	299.6	365.2	391.5
85°	35.8	140.8	273.3	346.1	370.0
87.5°	11.9	117.0	249.4	327.0	347.3
90°	1.2	97.9	228.0	306.7	327.0
92.5°	1.2	84.7	210.1	282.9	303.2
95°	1.2	75.2	192.2	260.2	278.1
97.5°	1.2	68.0	175.4	236.3	255.4
100°	1.2	60.9	157.5	213.6	233.9
102.5°	2.4	56.1	142.0	194.5	216.0
105°	2.4	52.5	126.5	177.8	199.3
107.5°	2.4	50.1	113.4	164.7	185.0
110°	2.4	47.7	103.8	152.8	174.3
112.5°	2.4	46.5	97.9	142.0	162.3
115°	2.4	45.4	93.1	132.5	149.2
117.5°	3.6	44.2	89.5	122.9	136.1
120°	3.6	41.8	87.1	114.6	125.3
122.5°	3.6	39.4	83.5	107.4	115.8
125°	3.6	38.2	80.0	100.3	107.4
127.5°	3.6	35.8	76.4	94.3	101.4
130°	4.8	33.4	72.8	89.5	95.5
132.5°	4.8	31.0	69.2	87.1	91.9
135°	4.8	29.8	65.6	83.5	88.3
137.5°	4.8	27.5	62.1	80.0	84.7
140°	4.8	25.1	57.3	75.2	80.0
142.5°	4.8	23.9	52.5	70.4	75.2
145°	4.8	21.5	46.5	64.4	70.4
147.5°	6.0	20.3	41.8	59.7	64.4
150°	6.0	17.9	37.0	54.9	59.7
152.5°	6.0	15.5	32.2	48.9	53.7
155°	6.0	13.1	28.6	43.0	48.9
157.5°	6.0	11.9	25.1	35.8	43.0
160°	6.0	10.7	21.5	31.0	37.0
162.5°	6.0	9.5	19.1	26.3	32.2
165°	6.0	8.4	15.5	21.5	26.3
167.5°	7.2	8.4	13.1	16.7	21.5
170°	7.2	8.4	10.7	13.1	16.7
172.5°	7.2	7.2	8.4	9.5	10.7
175°	7.2	7.2	7.2	7.2	6.0
177.5°	7.2	7.2	7.2	6.0	6.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.0	6.0	6.0	6.0	6.0

(END OF REPORT)