

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: P566334

Luminaire Tested: **4SNX-37SL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-37SL-LC-UNV-L830-CD
Description: 4FT 3700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

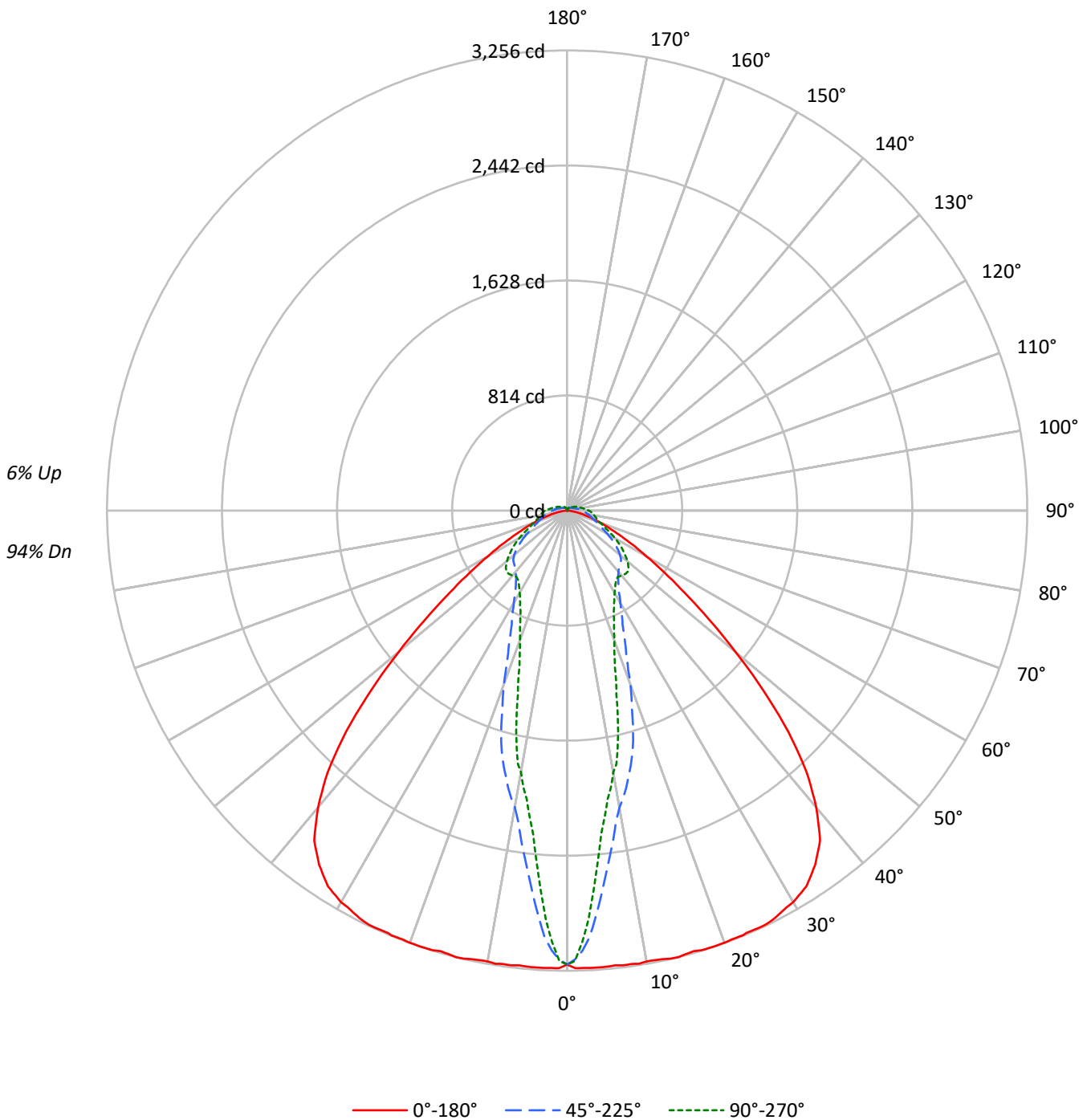
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3959.0 lumens
Efficiency: N/A
Efficacy: 165.0 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34570	34570	34570
5°	34882	28395	25416
10°	35156	21436	18395
15°	35798	17522	12737
20°	36720	12678	8996
25°	37867	9083	7077
30°	38834	7257	6027
35°	39064	6139	5398
40°	37242	5580	5412
45°	32318	5392	5560
50°	24793	5128	5187
55°	17967	4483	4603
60°	13035	3742	3891
65°	9488	3164	3190
70°	6989	2795	2751
75°	4967	2587	2565
80°	3254	2423	2526
85°	1531	2310	2529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.6	6.4
10°-20°	548.5	13.9
20°-30°	627.8	15.9
30°-40°	628.9	15.9
40°-50°	595.4	15.0
50°-60°	456.6	11.5
60°-70°	294.3	7.4
70°-80°	187.7	4.7
80°-90°	124.6	3.1
90°-100°	83.8	2.1
100°-110°	55.2	1.4
110°-120°	38.4	1.0
120°-130°	26.8	0.7
130°-140°	18.6	0.5
140°-150°	11.4	0.3
150°-160°	5.8	0.1
160°-170°	2.2	0.1
170°-180°	0.4	0.0
0°-30°	1428.9	36.1
0°-40°	2057.8	52.0
0°-60°	3109.8	78.6
0°-90°	3716.4	93.9
90°-120°	177.4	4.5
90°-150°	234.1	5.9
90°-180°	243.0	6.1
0°-180°	3959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3212	3212	3212	3212	3212	
5°	3240	3062	2743	2558	2489	309
15°	3248	2339	1783	1465	1347	921
25°	3250	1656	943	820	781	1498
35°	3060	921	631	611	603	1898
45°	2212	582	532	588	609	1681
55°	1014	416	410	461	479	933
65°	406	262	258	294	304	417
75°	138	142	178	205	215	152
85°	18	65	126	164	176	25
90°	0	45	106	146	152	1
95°	0	32	87	120	126	0
105°	0	24	57	81	87	1
115°	2	20	43	59	63	2
125°	2	18	36	43	45	2
135°	2	14	28	34	36	2
145°	2	10	20	26	28	1
155°	2	6	12	18	20	1
165°	4	4	8	10	12	1
175°	4	4	4	4	2	0
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-37SL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3211.7	3211.7	3211.7	3211.7	3211.7
1°	3238.1	3219.8	3177.2	3189.4	3187.4
2°	3238.1	3199.6	3116.4	3092.0	3055.5
3°	3240.1	3165.1	3023.0	2943.9	2893.2
4°	3240.1	3114.3	2885.1	2753.2	2688.3
5°	3240.1	3061.6	2743.1	2558.4	2489.4
6°	3236.1	2998.7	2599.0	2404.2	2300.8
7°	3242.2	2929.7	2469.2	2260.2	2179.0
8°	3240.1	2848.6	2349.5	2150.6	2061.4
9°	3246.2	2769.4	2219.6	2047.2	1980.2
10°	3240.1	2696.4	2134.4	1949.8	1880.8
11°	3240.1	2625.4	2073.5	1886.9	1828.0
12°	3244.2	2544.2	2006.6	1797.6	1716.4
13°	3254.3	2461.0	1929.5	1700.2	1604.9
14°	3256.4	2398.1	1858.5	1576.4	1477.0
15°	3248.3	2339.3	1783.4	1464.9	1347.2
16°	3244.2	2278.4	1694.1	1359.4	1253.9
17°	3252.3	2207.4	1592.7	1251.8	1154.4
18°	3254.3	2142.5	1485.1	1170.7	1085.5
19°	3254.3	2091.8	1397.9	1095.6	1022.6
20°	3254.3	2043.1	1308.6	1038.8	975.9
21°	3250.3	1982.2	1207.2	980.0	927.2
22.5°	3252.3	1868.6	1091.5	911.0	868.4
23°	3246.2	1840.2	1063.1	892.7	848.1
24°	3248.3	1759.0	1002.3	856.2	813.6
25°	3250.3	1655.6	943.4	819.7	781.1
26°	3246.2	1572.4	894.7	785.2	758.8
27°	3236.1	1505.4	860.2	756.8	732.4
28°	3221.9	1416.2	823.7	732.4	710.1
29°	3207.7	1314.7	787.2	706.1	689.8
30°	3199.6	1233.6	752.7	685.8	671.6
32.5°	3150.9	1073.3	681.7	645.2	633.0
35°	3059.6	921.1	631.0	610.7	602.6
37.5°	2939.9	803.4	592.4	588.4	590.4
40°	2743.1	710.1	564.0	582.3	600.6
42.5°	2507.7	637.1	543.7	588.4	608.7
45°	2211.5	582.3	531.6	588.4	608.7
47.5°	1882.8	537.7	517.4	568.1	588.4
50°	1554.1	497.1	489.0	537.7	555.9
52.5°	1264.0	458.5	452.4	499.1	517.4
55°	1014.4	415.9	409.8	460.6	478.8
57.5°	813.6	375.3	369.3	415.9	434.2
60°	649.2	334.8	324.6	371.3	389.5
62.5°	517.4	296.2	290.1	330.7	346.9
65°	405.8	261.7	257.7	294.2	304.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	320.6	229.3	231.3	261.7	273.9
70°	247.5	198.8	211.0	239.4	247.5
72.5°	186.7	168.4	194.8	219.1	229.3
75°	138.0	142.0	178.5	204.9	215.1
77.5°	95.4	117.7	164.3	192.7	202.9
80°	64.9	95.4	150.1	182.6	194.8
82.5°	38.5	79.1	138.0	172.5	186.7
85°	18.3	64.9	125.8	164.3	176.5
87.5°	6.1	52.8	113.6	156.2	166.4
90°	0.0	44.6	105.5	146.1	152.2
92.5°	0.0	38.5	95.4	133.9	138.0
95°	0.0	32.5	87.2	119.7	125.8
97.5°	0.0	30.4	81.2	107.5	115.6
100°	0.0	28.4	73.0	97.4	105.5
102.5°	0.0	24.3	64.9	87.2	95.4
105°	0.0	24.3	56.8	81.2	87.2
107.5°	2.0	22.3	52.8	73.0	81.2
110°	2.0	22.3	46.7	69.0	75.1
112.5°	2.0	22.3	44.6	62.9	71.0
115°	2.0	20.3	42.6	58.8	62.9
117.5°	2.0	20.3	40.6	52.8	56.8
120°	2.0	18.3	38.5	48.7	50.7
122.5°	2.0	18.3	36.5	44.6	46.7
125°	2.0	18.3	36.5	42.6	44.6
127.5°	2.0	16.2	34.5	40.6	40.6
130°	2.0	16.2	32.5	38.5	38.5
132.5°	2.0	14.2	30.4	36.5	38.5
135°	2.0	14.2	28.4	34.5	36.5
137.5°	2.0	12.2	26.4	32.5	34.5
140°	2.0	12.2	24.3	30.4	32.5
142.5°	2.0	10.1	22.3	28.4	30.4
145°	2.0	10.1	20.3	26.4	28.4
147.5°	2.0	10.1	18.3	24.3	26.4
150°	2.0	8.1	16.2	22.3	24.3
152.5°	2.0	8.1	14.2	20.3	22.3
155°	2.0	6.1	12.2	18.3	20.3
157.5°	2.0	6.1	12.2	16.2	18.3
160°	4.1	6.1	10.1	14.2	16.2
162.5°	2.0	4.1	10.1	12.2	14.2
165°	4.1	4.1	8.1	10.1	12.2
167.5°	4.1	4.1	6.1	8.1	10.1
170°	4.1	4.1	6.1	6.1	8.1
172.5°	4.1	4.1	4.1	6.1	4.1
175°	4.1	4.1	4.1	4.1	2.0
177.5°	4.1	4.1	4.1	4.1	2.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)