

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: P566337

Luminaire Tested: **4SNX-37SL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566337
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-L850-CD
Description: 4FT 3700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

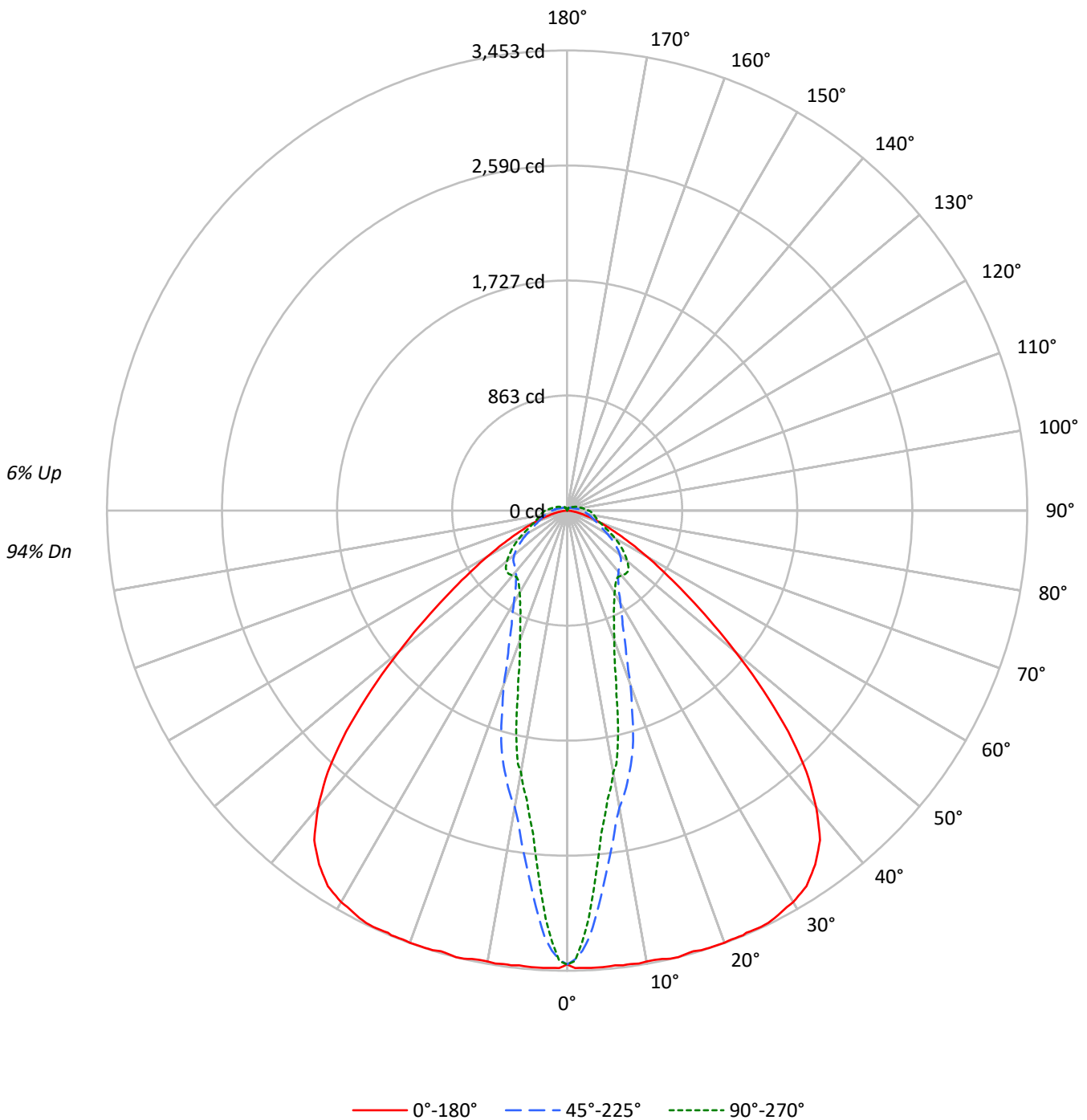
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4198.0 lumens
Efficiency: N/A
Efficacy: 174.9 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 (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	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°	36658	36658	36658
5°	36988	30109	26950
10°	37278	22729	19505
15°	37958	18580	13506
20°	38937	13444	9539
25°	40153	9632	7504
30°	41178	7696	6391
35°	41423	6509	5724
40°	39490	5917	5738
45°	34269	5717	5895
50°	26291	5437	5501
55°	19053	4755	4881
60°	13822	3968	4127
65°	10061	3355	3383
70°	7413	2963	2917
75°	5266	2744	2718
80°	3450	2569	2677
85°	1623	2450	2682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	6.4
10°-20°	581.6	13.9
20°-30°	665.7	15.9
30°-40°	666.9	15.9
40°-50°	631.3	15.0
50°-60°	484.2	11.5
60°-70°	312.1	7.4
70°-80°	199.0	4.7
80°-90°	132.2	3.1
90°-100°	88.8	2.1
100°-110°	58.5	1.4
110°-120°	40.7	1.0
120°-130°	28.4	0.7
130°-140°	19.7	0.5
140°-150°	12.1	0.3
150°-160°	6.1	0.1
160°-170°	2.4	0.1
170°-180°	0.5	0.0
0°-30°	1515.1	36.1
0°-40°	2182.1	52.0
0°-60°	3297.5	78.5
0°-90°	3940.8	93.9
90°-120°	188.1	4.5
90°-150°	248.3	5.9
90°-180°	257.0	6.1
0°-180°	4198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3406	3406	3406	3406	3406	
5°	3436	3246	2909	2713	2640	328
15°	3444	2480	1891	1553	1428	977
25°	3446	1756	1000	869	828	1589
35°	3244	977	669	648	639	2013
45°	2345	617	564	624	645	1783
55°	1076	441	435	488	508	989
65°	430	278	273	312	323	443
75°	146	151	189	217	228	161
85°	19	69	133	174	187	27
90°	0	47	112	155	161	1
95°	0	34	92	127	133	0
105°	0	26	60	86	92	1
115°	2	22	45	62	67	2
125°	2	19	39	45	47	2
135°	2	15	30	37	39	2
145°	2	11	22	28	30	1
155°	2	6	13	19	22	1
165°	4	4	9	11	13	1
175°	4	4	4	4	2	0
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-37SL-LC-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3405.6	3405.6	3405.6	3405.6	3405.6
1°	3433.6	3414.2	3369.0	3382.0	3379.8
2°	3433.6	3392.7	3304.5	3278.7	3240.0
3°	3435.7	3356.1	3205.5	3121.6	3067.9
4°	3435.7	3302.4	3059.3	2919.4	2850.6
5°	3435.7	3246.4	2908.7	2712.9	2639.7
6°	3431.4	3179.7	2755.9	2549.4	2439.7
7°	3437.9	3106.6	2618.2	2396.6	2310.6
8°	3435.7	3020.5	2491.3	2280.5	2185.8
9°	3442.2	2936.6	2353.6	2170.7	2099.7
10°	3435.7	2859.2	2263.2	2067.5	1994.3
11°	3435.7	2783.9	2198.7	2000.8	1938.4
12°	3440.0	2697.8	2127.7	1906.1	1820.1
13°	3450.8	2609.6	2046.0	1802.8	1701.7
14°	3453.0	2542.9	1970.7	1671.6	1566.2
15°	3444.3	2480.5	1891.1	1553.3	1428.5
16°	3440.0	2416.0	1796.4	1441.4	1329.5
17°	3448.6	2340.7	1688.8	1327.4	1224.1
18°	3450.8	2271.8	1574.8	1241.3	1151.0
19°	3450.8	2218.1	1482.3	1161.7	1084.3
20°	3450.8	2166.4	1387.6	1101.5	1034.8
21°	3446.5	2101.9	1280.1	1039.1	983.2
22.5°	3448.6	1981.4	1157.4	966.0	920.8
23°	3442.2	1951.3	1127.3	946.6	899.3
24°	3444.3	1865.2	1062.8	907.9	862.7
25°	3446.5	1755.5	1000.4	869.2	828.3
26°	3442.2	1667.3	948.8	832.6	804.6
27°	3431.4	1596.3	912.2	802.5	776.6
28°	3416.4	1501.7	873.5	776.6	753.0
29°	3401.3	1394.1	834.7	748.7	731.5
30°	3392.7	1308.0	798.2	727.2	712.1
32.5°	3341.1	1138.1	722.9	684.1	671.2
35°	3244.3	976.7	669.1	647.6	639.0
37.5°	3117.3	851.9	628.2	623.9	626.0
40°	2908.7	753.0	598.1	617.4	636.8
42.5°	2659.1	675.5	576.6	623.9	645.4
45°	2345.0	617.4	563.7	623.9	645.4
47.5°	1996.5	570.1	548.6	602.4	623.9
50°	1648.0	527.1	518.5	570.1	589.5
52.5°	1340.3	486.2	479.8	529.2	548.6
55°	1075.7	441.0	434.6	488.4	507.7
57.5°	862.7	398.0	391.5	441.0	460.4
60°	688.4	355.0	344.2	393.7	413.1
62.5°	548.6	314.1	307.6	350.7	367.9
65°	430.3	277.5	273.2	311.9	322.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	339.9	243.1	245.3	277.5	290.4
70°	262.5	210.8	223.7	253.9	262.5
72.5°	197.9	178.6	206.5	232.3	243.1
75°	146.3	150.6	189.3	217.3	228.0
77.5°	101.1	124.8	174.3	204.4	215.1
80°	68.8	101.1	159.2	193.6	206.5
82.5°	40.9	83.9	146.3	182.9	197.9
85°	19.4	68.8	133.4	174.3	187.2
87.5°	6.5	55.9	120.5	165.7	176.4
90°	0.0	47.3	111.9	154.9	161.4
92.5°	0.0	40.9	101.1	142.0	146.3
95°	0.0	34.4	92.5	126.9	133.4
97.5°	0.0	32.3	86.1	114.0	122.6
100°	0.0	30.1	77.4	103.3	111.9
102.5°	0.0	25.8	68.8	92.5	101.1
105°	0.0	25.8	60.2	86.1	92.5
107.5°	2.2	23.7	55.9	77.4	86.1
110°	2.2	23.7	49.5	73.1	79.6
112.5°	2.2	23.7	47.3	66.7	75.3
115°	2.2	21.5	45.2	62.4	66.7
117.5°	2.2	21.5	43.0	55.9	60.2
120°	2.2	19.4	40.9	51.6	53.8
122.5°	2.2	19.4	38.7	47.3	49.5
125°	2.2	19.4	38.7	45.2	47.3
127.5°	2.2	17.2	36.6	43.0	43.0
130°	2.2	17.2	34.4	40.9	40.9
132.5°	2.2	15.1	32.3	38.7	40.9
135°	2.2	15.1	30.1	36.6	38.7
137.5°	2.2	12.9	28.0	34.4	36.6
140°	2.2	12.9	25.8	32.3	34.4
142.5°	2.2	10.8	23.7	30.1	32.3
145°	2.2	10.8	21.5	28.0	30.1
147.5°	2.2	10.8	19.4	25.8	28.0
150°	2.2	8.6	17.2	23.7	25.8
152.5°	2.2	8.6	15.1	21.5	23.7
155°	2.2	6.5	12.9	19.4	21.5
157.5°	2.2	6.5	12.9	17.2	19.4
160°	4.3	6.5	10.8	15.1	17.2
162.5°	2.2	4.3	10.8	12.9	15.1
165°	4.3	4.3	8.6	10.8	12.9
167.5°	4.3	4.3	6.5	8.6	10.8
170°	4.3	4.3	6.5	6.5	8.6
172.5°	4.3	4.3	4.3	6.5	4.3
175°	4.3	4.3	4.3	4.3	2.2
177.5°	4.3	4.3	4.3	4.3	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	4.3	4.3	4.3	4.3	4.3

(END OF REPORT)