

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: P566344

Luminaire Tested: **4SNX-37SL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-37SL-LN-UNV-L840-CD
Description: 4FT 3700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

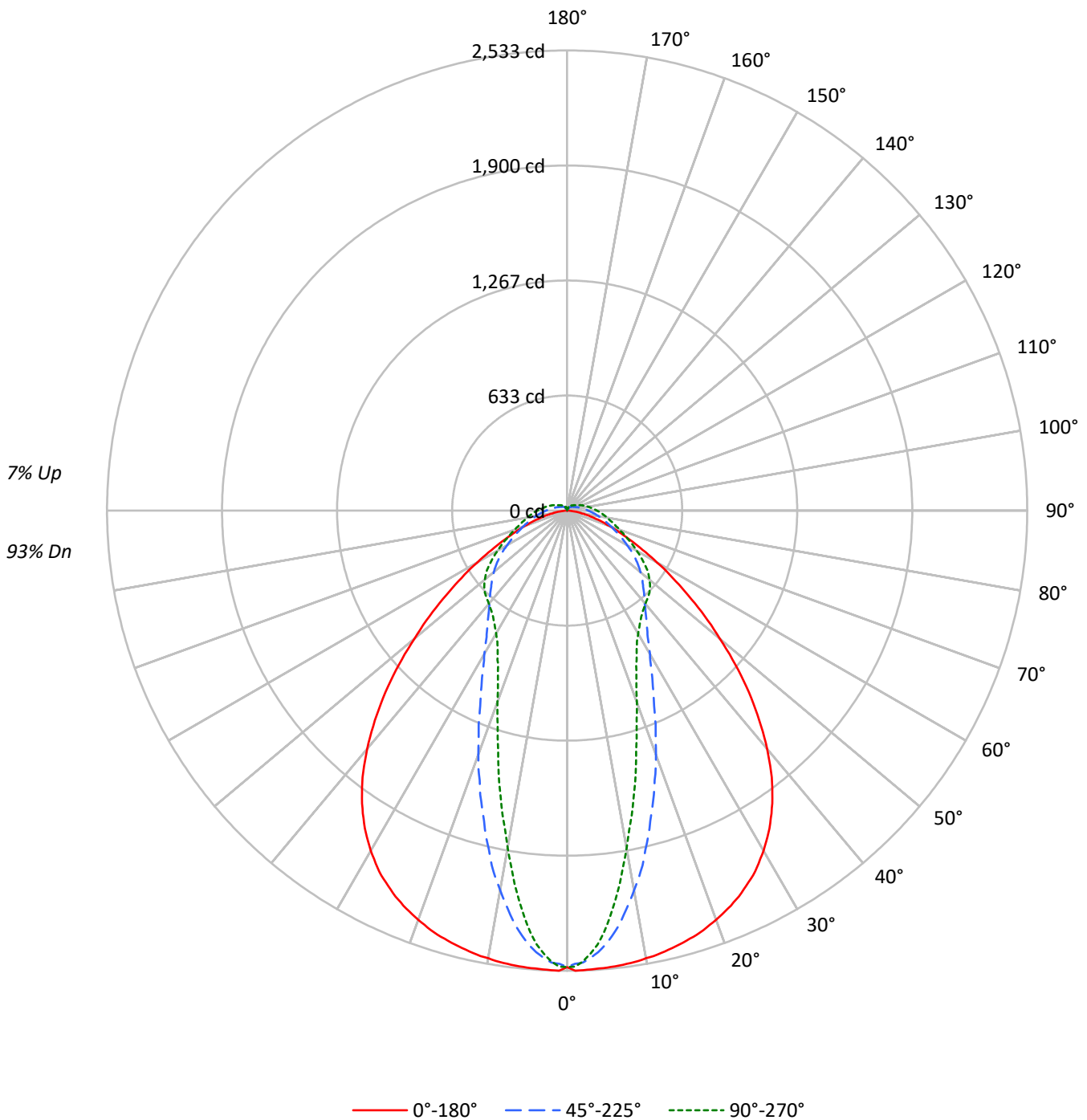
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4005.1 lumens
Efficiency: N/A
Efficacy: 166.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
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	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	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	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	67	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	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27044	27044	27044
5°	27185	24856	23786
10°	27147	21311	18455
15°	27134	17384	13832
20°	27047	13849	10351
25°	26802	10852	8216
30°	26239	8782	7007
35°	25137	7432	6374
40°	23254	6562	6034
45°	20674	6003	5847
50°	17514	5524	5523
55°	14388	5006	5044
60°	11505	4403	4425
65°	8931	3866	3850
70°	6935	3420	3405
75°	5363	3073	3104
80°	3790	2812	2885
85°	2108	2621	2767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	5.6
10°-20°	521.5	13.0
20°-30°	619.1	15.5
30°-40°	622.8	15.6
40°-50°	579.0	14.5
50°-60°	476.7	11.9
60°-70°	335.9	8.4
70°-80°	219.5	5.5
80°-90°	140.1	3.5
90°-100°	91.9	2.3
100°-110°	62.4	1.6
110°-120°	42.8	1.1
120°-130°	29.6	0.7
130°-140°	19.9	0.5
140°-150°	12.3	0.3
150°-160°	6.4	0.2
160°-170°	2.3	0.1
170°-180°	0.4	0.0
0°-30°	1363.1	34.0
0°-40°	1985.9	49.6
0°-60°	3041.6	75.9
0°-90°	3737.1	93.3
90°-120°	197.1	4.9
90°-150°	258.9	6.5
90°-180°	268.0	6.7
0°-180°	4005.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2525	2492	2401	2355	2330	240
15°	2462	2200	1769	1547	1463	695
25°	2300	1700	1127	947	907	1059
35°	1969	1150	764	716	712	1224
45°	1415	758	592	623	640	1086
55°	812	498	458	508	525	734
65°	382	300	315	355	367	388
75°	149	155	212	250	260	161
85°	25	71	143	185	193	32
90°	0	48	115	157	164	1
95°	0	36	97	132	138	0
105°	0	25	65	92	101	0
115°	2	21	46	67	71	2
125°	2	17	38	48	52	2
135°	2	15	29	38	40	2
145°	2	10	21	29	32	1
155°	2	8	15	21	23	1
165°	2	4	8	10	13	1
175°	4	4	4	4	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2512.5	2512.5	2512.5	2512.5	2512.5
1°	2533.4	2523.0	2495.7	2514.6	2510.4
2°	2531.3	2520.9	2489.4	2497.8	2483.1
3°	2529.2	2514.6	2466.3	2464.2	2443.2
4°	2527.1	2504.1	2436.9	2411.7	2394.9
5°	2525.1	2491.5	2401.2	2355.0	2329.8
6°	2523.0	2476.8	2355.0	2285.8	2250.1
7°	2518.8	2453.7	2306.8	2212.3	2166.1
8°	2514.6	2432.7	2245.9	2132.5	2075.9
9°	2510.4	2405.4	2185.0	2046.5	1979.3
10°	2502.0	2378.1	2122.0	1958.3	1887.0
11°	2497.8	2346.6	2061.2	1874.4	1790.4
12°	2489.4	2313.1	1996.1	1786.2	1712.8
13°	2481.0	2277.4	1916.4	1710.7	1622.5
14°	2472.6	2239.6	1847.1	1626.7	1544.8
15°	2462.1	2199.7	1769.4	1546.9	1463.0
16°	2451.6	2153.5	1700.2	1465.1	1376.9
17°	2441.1	2109.5	1635.1	1389.5	1309.8
18°	2428.5	2065.4	1559.5	1316.0	1238.4
19°	2411.7	2015.0	1498.7	1248.9	1177.5
20°	2397.0	1968.8	1429.4	1185.9	1122.9
21°	2380.2	1912.2	1360.1	1127.1	1064.2
22.5°	2355.0	1832.4	1272.0	1053.7	994.9
23°	2342.4	1809.3	1236.3	1026.4	976.0
24°	2325.6	1748.4	1177.5	984.4	934.0
25°	2300.5	1700.2	1127.1	946.6	906.8
26°	2277.4	1641.4	1076.8	913.0	873.2
27°	2254.3	1584.7	1032.7	877.4	843.8
28°	2224.9	1525.9	984.4	848.0	818.6
29°	2193.4	1471.4	944.5	822.8	799.7
30°	2161.9	1410.5	910.9	799.7	780.8
32.5°	2073.8	1276.2	824.9	755.6	743.0
35°	1968.8	1150.2	764.0	715.7	711.5
37.5°	1851.3	1034.8	709.4	684.3	688.5
40°	1712.8	929.8	663.3	661.2	669.6
42.5°	1565.8	839.6	627.6	642.3	654.9
45°	1414.7	757.7	591.9	623.4	640.2
47.5°	1257.3	686.4	560.4	600.3	619.2
50°	1097.8	617.1	526.8	573.0	591.9
52.5°	955.0	556.2	493.3	541.5	562.5
55°	812.3	497.5	457.6	507.9	524.7
57.5°	688.5	442.9	419.8	470.2	482.8
60°	573.0	390.4	382.0	428.2	442.9
62.5°	468.1	344.2	346.3	390.4	405.1
65°	382.0	300.2	314.8	354.7	367.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	310.6	258.2	283.4	325.3	335.8
70°	245.6	220.4	258.2	296.0	306.4
72.5°	195.2	186.8	233.0	272.9	281.3
75°	149.0	155.3	212.0	249.8	260.3
77.5°	107.0	130.1	191.0	230.9	239.3
80°	75.6	107.0	174.2	214.1	222.5
82.5°	48.3	88.2	157.4	199.4	207.8
85°	25.2	71.4	142.7	184.7	193.1
87.5°	10.5	58.8	128.0	170.0	178.4
90°	0.0	48.3	115.4	157.4	163.7
92.5°	0.0	42.0	104.9	144.8	151.1
95°	0.0	35.7	96.6	132.2	138.5
97.5°	0.0	33.6	86.1	121.7	128.0
100°	0.0	29.4	77.7	111.2	119.6
102.5°	0.0	27.3	71.4	100.8	109.1
105°	0.0	25.2	65.1	92.4	100.8
107.5°	0.0	23.1	60.9	86.1	92.4
110°	0.0	23.1	54.6	79.8	86.1
112.5°	2.1	21.0	50.4	71.4	77.7
115°	2.1	21.0	46.2	67.2	71.4
117.5°	2.1	21.0	44.1	60.9	65.1
120°	2.1	18.9	42.0	56.7	60.9
122.5°	2.1	18.9	39.9	52.5	54.6
125°	2.1	16.8	37.8	48.3	52.5
127.5°	2.1	16.8	35.7	46.2	48.3
130°	2.1	16.8	33.6	42.0	46.2
132.5°	2.1	14.7	31.5	39.9	42.0
135°	2.1	14.7	29.4	37.8	39.9
137.5°	2.1	12.6	27.3	35.7	37.8
140°	2.1	12.6	25.2	33.6	35.7
142.5°	2.1	10.5	23.1	31.5	33.6
145°	2.1	10.5	21.0	29.4	31.5
147.5°	2.1	10.5	18.9	27.3	29.4
150°	2.1	8.4	16.8	25.2	27.3
152.5°	2.1	8.4	14.7	23.1	25.2
155°	2.1	8.4	14.7	21.0	23.1
157.5°	2.1	6.3	12.6	16.8	21.0
160°	2.1	6.3	10.5	14.7	18.9
162.5°	2.1	6.3	10.5	12.6	14.7
165°	2.1	4.2	8.4	10.5	12.6
167.5°	2.1	4.2	6.3	8.4	10.5
170°	2.1	4.2	6.3	6.3	8.4
172.5°	2.1	4.2	4.2	4.2	4.2
175°	4.2	4.2	4.2	4.2	2.1
177.5°	4.2	4.2	4.2	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)