

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: P566329

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-37SL-FDL-UNV-L850-CD
Description: 4FT 3700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

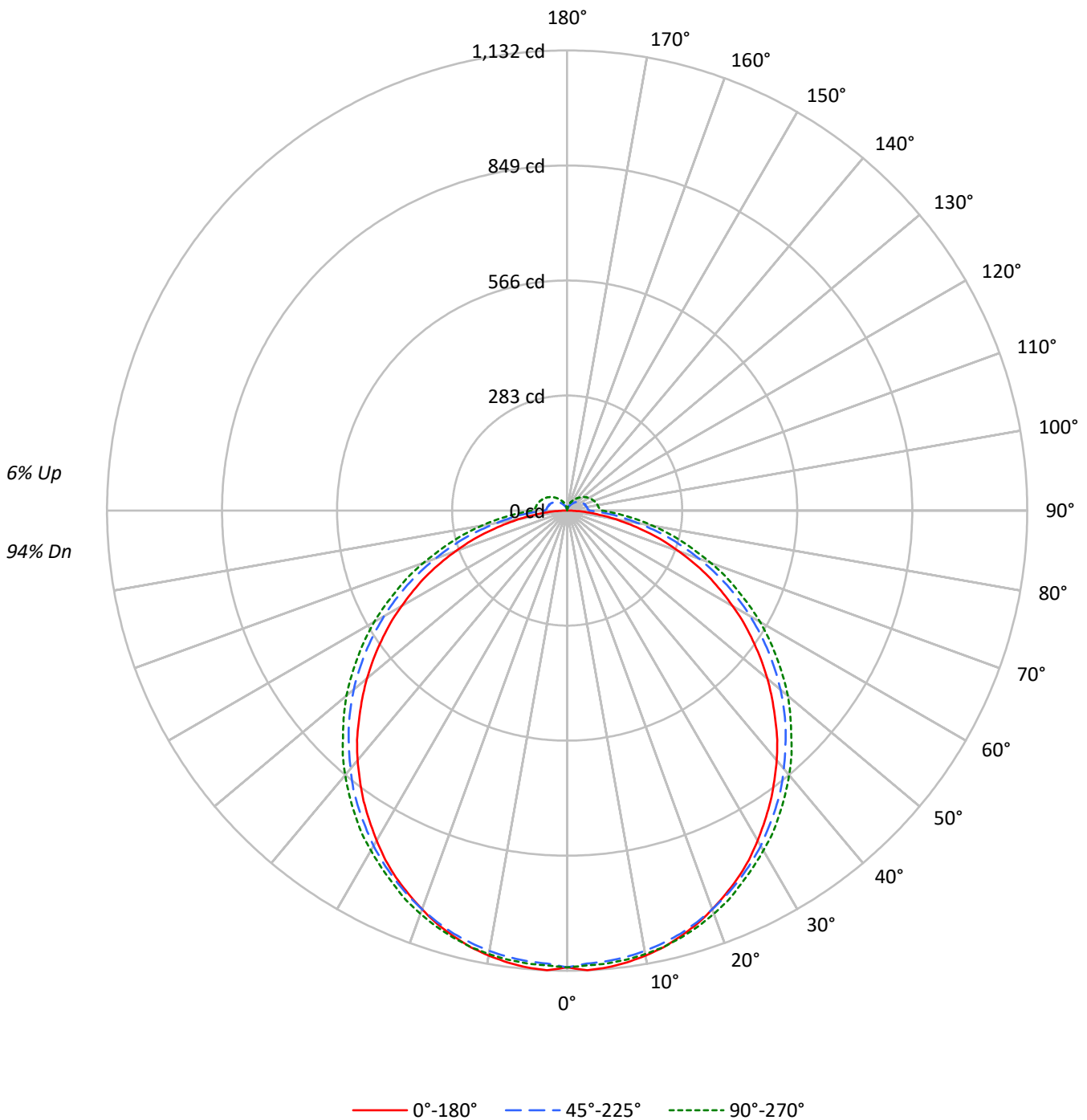
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3571.0 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
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

TEST NUMBER: P566329
CATALOG NUMBER: 4SNX-37SL-FDL-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566329

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

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	97	97	97	94				
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77				
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64				
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53				
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45				
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39				
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34				
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30				
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27				
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24				
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12095	12095	12095
5°	12179	11896	11914
10°	12129	11766	11764
15°	12038	11619	11595
20°	11914	11437	11398
25°	11772	11241	11165
30°	11579	11039	10948
35°	11385	10803	10722
40°	11169	10541	10470
45°	10898	10283	10173
50°	10637	9989	9904
55°	10314	9623	9528
60°	9949	9206	9160
65°	9564	8710	8650
70°	8900	8085	8123
75°	8103	7349	7492
80°	6924	6372	6791
85°	5441	5527	5969



TEST NUMBER: P566329

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	3.0
10°-20°	305.8	8.6
20°-30°	463.4	13.0
30°-40°	559.5	15.7
40°-50°	584.2	16.4
50°-60°	536.7	15.0
60°-70°	424.4	11.9
70°-80°	268.6	7.5
80°-90°	115.5	3.2
90°-100°	50.8	1.4
100°-110°	45.5	1.3
110°-120°	38.4	1.1
120°-130°	29.9	0.8
130°-140°	20.7	0.6
140°-150°	12.4	0.3
150°-160°	6.1	0.2
160°-170°	2.1	0.1
170°-180°	0.3	0.0
0°-30°	875.8	24.5
0°-40°	1435.3	40.2
0°-60°	2556.2	71.6
0°-90°	3364.7	94.2
90°-120°	134.7	3.8
90°-150°	197.8	5.5
90°-180°	206.0	5.8
0°-180°	3571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1125	1113	1122	1119	107
15°	1083	1083	1078	1089	1087	306
25°	996	1000	1002	1015	1013	459
35°	873	883	894	908	911	546
45°	723	741	760	775	780	559
55°	558	580	604	624	629	499
65°	384	405	434	454	461	378
75°	202	226	259	281	292	215
85°	49	76	109	132	140	55
90°	3	27	56	78	86	4
95°	1	23	51	71	78	0
105°	1	22	47	66	73	1
115°	1	18	43	60	66	1
125°	1	16	36	52	58	1
135°	1	13	29	41	46	1
145°	1	10	20	31	34	1
155°	1	6	13	20	23	1
165°	2	4	7	10	13	1
175°	2	2	3	3	2	0
180°	2	2	2	2	2	



TEST NUMBER: P566329

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1131.9	1128.2	1115.5	1124.4	1119.9
5°	1128.2	1125.0	1113.0	1122.5	1118.7
7.5°	1121.2	1118.7	1107.9	1118.0	1114.2
10°	1111.7	1109.8	1100.3	1110.4	1107.9
12.5°	1099.7	1099.1	1089.6	1101.0	1099.1
15°	1083.3	1083.3	1077.6	1088.9	1087.0
17.5°	1065.5	1066.2	1061.8	1073.8	1072.5
20°	1044.0	1047.2	1044.0	1056.7	1055.4
22.5°	1020.6	1025.1	1023.8	1036.5	1037.1
25°	996.0	1000.4	1001.7	1015.0	1013.1
27.5°	968.8	975.8	978.3	990.3	989.7
30°	937.2	946.7	952.4	962.5	965.6
32.5°	904.9	916.3	923.3	937.2	941.0
35°	872.7	882.8	894.2	908.1	911.2
37.5°	837.3	848.6	863.8	877.1	880.9
40°	801.8	814.5	829.0	843.6	849.3
42.5°	765.2	778.5	794.3	811.3	817.0
45°	723.4	741.1	760.1	774.7	779.7
47.5°	683.6	703.2	723.4	739.2	744.9
50°	643.1	664.0	685.5	700.0	708.9
52.5°	600.8	623.5	645.0	663.4	669.1
55°	557.8	580.5	604.5	624.2	628.6
57.5°	516.0	538.1	562.2	580.5	589.4
60°	470.5	494.5	520.4	538.8	548.3
62.5°	426.2	449.6	477.4	497.0	504.6
65°	383.9	405.4	433.8	454.0	461.0
67.5°	337.1	361.7	388.9	412.3	421.2
70°	290.9	314.3	345.3	367.4	376.3
72.5°	247.9	270.7	301.6	323.8	332.0
75°	202.4	226.4	259.3	281.4	292.2
77.5°	158.7	185.3	216.9	240.9	252.9
80°	118.3	141.7	175.8	202.4	213.1
82.5°	80.3	105.6	141.0	165.7	177.7
85°	49.3	75.9	108.8	132.2	140.4
87.5°	23.4	48.7	79.0	101.8	111.9
90°	3.2	27.2	55.6	77.8	86.0
92.5°	0.6	23.4	51.2	72.1	79.7
95°	0.6	23.4	50.6	70.8	78.4
97.5°	0.6	22.8	50.0	70.2	77.1
100°	0.6	22.1	49.3	68.9	76.5
102.5°	0.6	22.1	48.1	67.7	74.6
105°	0.6	21.5	47.4	66.4	73.4
107.5°	0.6	20.9	46.2	65.1	72.1
110°	0.6	19.6	45.5	63.2	70.2



TEST NUMBER: P566329

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	19.0	44.3	62.0	68.3
115°	0.6	18.3	43.0	60.1	66.4
117.5°	0.6	17.7	41.1	58.2	64.5
120°	1.3	17.7	39.8	56.3	62.0
122.5°	1.3	17.1	37.9	53.8	59.4
125°	1.3	16.4	36.0	51.9	57.5
127.5°	1.3	15.8	34.1	49.3	54.4
130°	1.3	14.5	32.9	46.8	51.9
132.5°	1.3	13.9	31.0	43.6	48.7
135°	1.3	12.6	29.1	41.1	46.2
137.5°	1.3	12.0	27.2	38.6	43.0
140°	1.3	11.4	24.7	36.0	40.5
142.5°	1.3	10.1	22.8	33.5	37.3
145°	1.3	9.5	20.2	31.0	34.1
147.5°	1.3	8.2	18.3	28.5	31.6
150°	1.3	7.6	16.4	25.9	29.1
152.5°	1.3	7.0	14.5	22.8	25.9
155°	1.3	6.3	13.3	19.6	23.4
157.5°	1.3	5.7	11.4	17.1	20.9
160°	1.9	5.1	10.1	14.5	17.7
162.5°	1.9	4.4	8.2	12.0	15.8
165°	1.9	4.4	7.0	9.5	13.3
167.5°	1.9	3.8	5.7	7.6	10.8
170°	1.9	3.2	5.1	5.7	8.2
172.5°	1.9	2.5	3.8	3.8	4.4
175°	1.9	2.5	3.2	3.2	1.9
177.5°	1.9	1.9	1.9	1.9	1.3
180°	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)