

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: P566377

Luminaire Tested: **4SNX-41SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566377
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-41SL-FDL-UNV-L850-CD
Description: 4FT 4100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

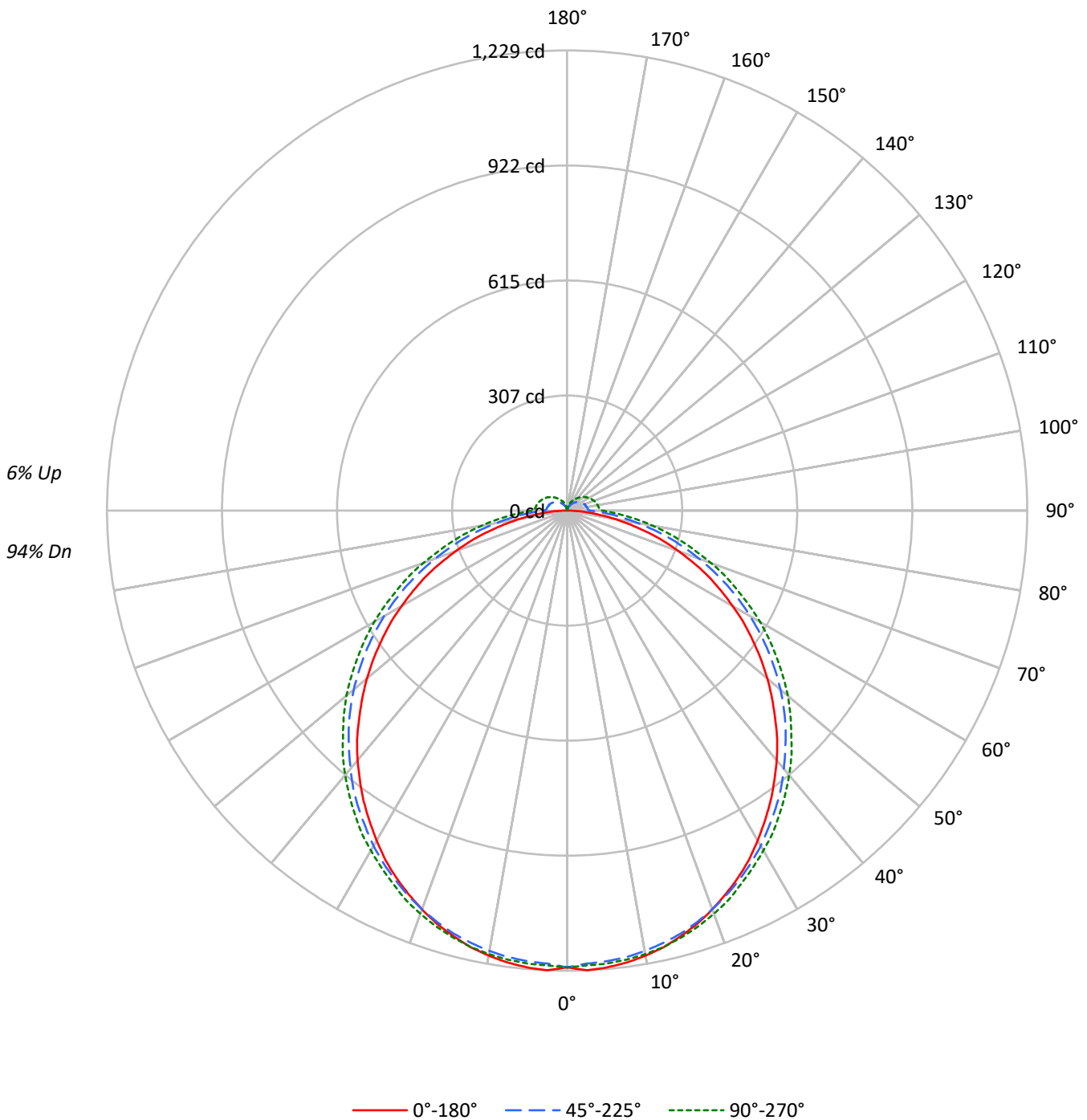
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3877.0 lumens
Efficiency: N/A
Efficacy: 147.4 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): 26.3
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: P566377
CATALOG NUMBER: 4SNX-41SL-FDL-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566377

CATALOG NUMBER: 4SNX-41SL-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	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°	13132	13132	13132
5°	13222	12914	12934
10°	13168	12775	12772
15°	13070	12614	12589
20°	12935	12418	12375
25°	12780	12203	12121
30°	12571	11985	11887
35°	12360	11728	11641
40°	12127	11445	11367
45°	11832	11164	11045
50°	11548	10844	10752
55°	11196	10450	10344
60°	10802	9995	9943
65°	10381	9457	9391
70°	9662	8779	8818
75°	8795	7979	8133
80°	7515	6919	7374
85°	5915	5999	6479



TEST NUMBER: P566377

CATALOG NUMBER: 4SNX-41SL-FDL-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.0
10°-20°	332.0	8.6
20°-30°	503.1	13.0
30°-40°	607.4	15.7
40°-50°	634.3	16.4
50°-60°	582.7	15.0
60°-70°	460.8	11.9
70°-80°	291.6	7.5
80°-90°	125.4	3.2
90°-100°	55.2	1.4
100°-110°	49.4	1.3
110°-120°	41.7	1.1
120°-130°	32.5	0.8
130°-140°	22.5	0.6
140°-150°	13.5	0.3
150°-160°	6.6	0.2
160°-170°	2.3	0.1
170°-180°	0.3	0.0
0°-30°	950.9	24.5
0°-40°	1558.3	40.2
0°-60°	2775.2	71.6
0°-90°	3653.0	94.2
90°-120°	146.3	3.8
90°-150°	214.8	5.5
90°-180°	224.0	5.8
0°-180°	3877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1225	1221	1208	1219	1214	116
15°	1176	1176	1170	1182	1180	332
25°	1081	1086	1088	1102	1100	498
35°	948	958	971	986	989	592
45°	785	805	825	841	846	607
55°	606	630	656	678	682	542
65°	417	440	471	493	500	410
75°	220	246	282	306	317	233
85°	54	82	118	144	152	59
90°	3	30	60	84	93	5
95°	1	25	55	77	85	1
105°	1	23	52	72	80	1
115°	1	20	47	65	72	1
125°	1	18	39	56	62	1
135°	1	14	32	45	50	1
145°	1	10	22	34	37	1
155°	1	7	14	21	25	1
165°	2	5	8	10	14	1
175°	2	3	3	3	2	0
180°	2	2	2	2	2	



TEST NUMBER: P566377

CATALOG NUMBER: 4SNX-41SL-FDL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1228.9	1224.8	1211.1	1220.7	1215.9
5°	1224.8	1221.4	1208.3	1218.6	1214.5
7.5°	1217.3	1214.5	1202.9	1213.8	1209.7
10°	1207.0	1204.9	1194.6	1205.6	1202.9
12.5°	1193.9	1193.2	1182.9	1195.3	1193.2
15°	1176.1	1176.1	1169.9	1182.3	1180.2
17.5°	1156.9	1157.5	1152.7	1165.8	1164.4
20°	1133.5	1136.9	1133.5	1147.2	1145.9
22.5°	1108.1	1112.9	1111.5	1125.3	1126.0
25°	1081.3	1086.1	1087.5	1101.9	1099.9
27.5°	1051.8	1059.4	1062.1	1075.2	1074.5
30°	1017.5	1027.8	1034.0	1044.9	1048.4
32.5°	982.5	994.8	1002.4	1017.5	1021.6
35°	947.5	958.4	970.8	985.9	989.3
37.5°	909.0	921.4	937.8	952.3	956.4
40°	870.6	884.3	900.1	915.9	922.1
42.5°	830.7	845.2	862.3	880.9	887.0
45°	785.4	804.6	825.2	841.0	846.5
47.5°	742.2	763.5	785.4	802.6	808.8
50°	698.2	720.9	744.2	760.0	769.6
52.5°	652.2	676.9	700.3	720.2	726.4
55°	605.5	630.3	656.4	677.6	682.4
57.5°	560.2	584.3	610.4	630.3	639.9
60°	510.8	536.9	565.0	584.9	595.2
62.5°	462.7	488.1	518.4	539.6	547.9
65°	416.7	440.1	471.0	493.0	500.5
67.5°	365.9	392.7	422.2	447.6	457.2
70°	315.8	341.2	374.9	398.9	408.5
72.5°	269.1	293.8	327.5	351.5	360.4
75°	219.7	245.8	281.5	305.5	317.2
77.5°	172.3	201.2	235.5	261.6	274.6
80°	128.4	153.8	190.9	219.7	231.4
82.5°	87.2	114.7	153.1	179.9	192.9
85°	53.6	82.4	118.1	143.5	152.4
87.5°	25.4	52.9	85.8	110.5	121.5
90°	3.4	29.5	60.4	84.4	93.4
92.5°	0.7	25.4	55.6	78.3	86.5
95°	0.7	25.4	54.9	76.9	85.1
97.5°	0.7	24.7	54.2	76.2	83.8
100°	0.7	24.0	53.6	74.8	83.1
102.5°	0.7	24.0	52.2	73.5	81.0
105°	0.7	23.3	51.5	72.1	79.6
107.5°	0.7	22.7	50.1	70.7	78.3
110°	0.7	21.3	49.4	68.7	76.2



TEST NUMBER: P566377

CATALOG NUMBER: 4SNX-41SL-FDL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	20.6	48.1	67.3	74.1
115°	0.7	19.9	46.7	65.2	72.1
117.5°	0.7	19.2	44.6	63.2	70.0
120°	1.4	19.2	43.3	61.1	67.3
122.5°	1.4	18.5	41.2	58.4	64.5
125°	1.4	17.9	39.1	56.3	62.5
127.5°	1.4	17.2	37.1	53.6	59.0
130°	1.4	15.8	35.7	50.8	56.3
132.5°	1.4	15.1	33.6	47.4	52.9
135°	1.4	13.7	31.6	44.6	50.1
137.5°	1.4	13.0	29.5	41.9	46.7
140°	1.4	12.4	26.8	39.1	43.9
142.5°	1.4	11.0	24.7	36.4	40.5
145°	1.4	10.3	22.0	33.6	37.1
147.5°	1.4	8.9	19.9	30.9	34.3
150°	1.4	8.2	17.9	28.1	31.6
152.5°	1.4	7.6	15.8	24.7	28.1
155°	1.4	6.9	14.4	21.3	25.4
157.5°	1.4	6.2	12.4	18.5	22.7
160°	2.1	5.5	11.0	15.8	19.2
162.5°	2.1	4.8	8.9	13.0	17.2
165°	2.1	4.8	7.6	10.3	14.4
167.5°	2.1	4.1	6.2	8.2	11.7
170°	2.1	3.4	5.5	6.2	8.9
172.5°	2.1	2.7	4.1	4.1	4.8
175°	2.1	2.7	3.4	3.4	2.1
177.5°	2.1	2.1	2.1	2.1	1.4
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)