

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: P566425

Luminaire Tested: **4SNX-45SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566425
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-45SL-FDL-UNV-L850-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

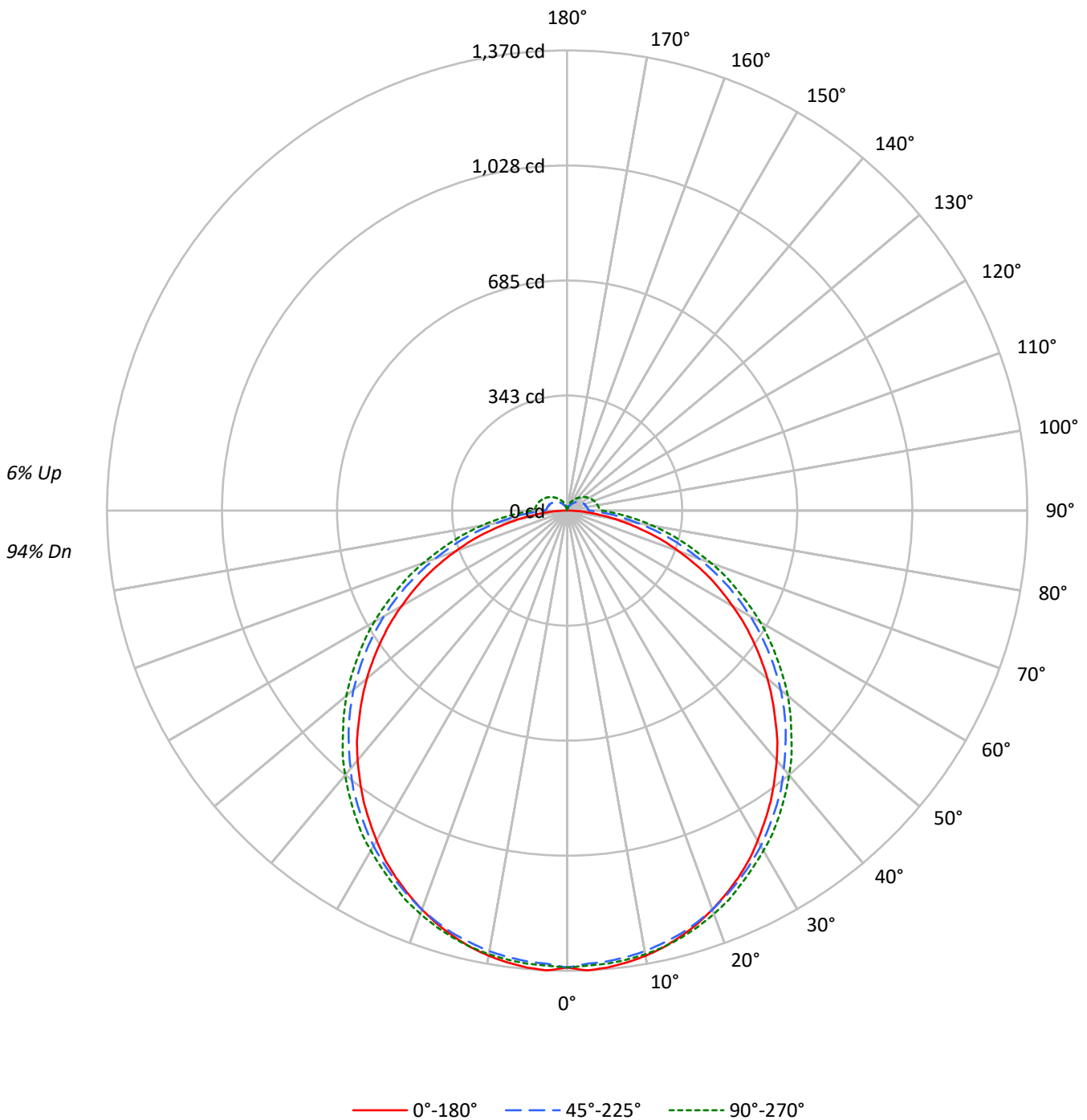
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4323.0 lumens
Efficiency: N/A
Efficacy: 145.1 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): 29.8
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

TEST NUMBER: P566425
CATALOG NUMBER: 4SNX-45SL-FDL-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566425

CATALOG NUMBER: 4SNX-45SL-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°	14643	14643	14643
5°	14743	14401	14422
10°	14683	14244	14241
15°	14573	14065	14038
20°	14423	13847	13799
25°	14250	13607	13515
30°	14017	13363	13254
35°	13781	13078	12980
40°	13521	12761	12674
45°	13194	12449	12316
50°	12878	12091	11990
55°	12485	11651	11534
60°	12045	11145	11087
65°	11577	10545	10472
70°	10773	9788	9833
75°	9808	8897	9069
80°	8381	7713	8221
85°	6589	6690	7227



TEST NUMBER: P566425

CATALOG NUMBER: 4SNX-45SL-FDL-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.0
10°-20°	370.2	8.6
20°-30°	561.0	13.0
30°-40°	677.3	15.7
40°-50°	707.2	16.4
50°-60°	649.7	15.0
60°-70°	513.8	11.9
70°-80°	325.2	7.5
80°-90°	139.8	3.2
90°-100°	61.5	1.4
100°-110°	55.1	1.3
110°-120°	46.5	1.1
120°-130°	36.2	0.8
130°-140°	25.1	0.6
140°-150°	15.1	0.3
150°-160°	7.4	0.2
160°-170°	2.5	0.1
170°-180°	0.4	0.0
0°-30°	1060.2	24.5
0°-40°	1737.5	40.2
0°-60°	3094.5	71.6
0°-90°	4073.3	94.2
90°-120°	163.1	3.8
90°-150°	239.5	5.5
90°-180°	250.0	5.8
0°-180°	4323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1366	1362	1347	1359	1354	130
15°	1311	1311	1304	1318	1316	370
25°	1206	1211	1213	1229	1226	555
35°	1056	1069	1082	1099	1103	660
45°	876	897	920	938	944	676
55°	675	703	732	756	761	604
65°	465	491	525	550	558	458
75°	245	274	314	341	354	260
85°	60	92	132	160	170	66
90°	4	33	67	94	104	5
95°	1	28	61	86	95	1
105°	1	26	57	80	89	1
115°	1	22	52	73	80	1
125°	2	20	44	63	70	1
135°	2	15	35	50	56	1
145°	2	12	24	38	41	1
155°	2	8	16	24	28	1
165°	2	5	8	12	16	1
175°	2	3	4	4	2	0
180°	2	2	2	2	2	



TEST NUMBER: P566425

CATALOG NUMBER: 4SNX-45SL-FDL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.4	1360.4	1360.4	1360.4	1360.4
2.5°	1370.3	1365.7	1350.4	1361.1	1355.8
5°	1365.7	1361.9	1347.4	1358.8	1354.2
7.5°	1357.3	1354.2	1341.2	1353.5	1348.9
10°	1345.8	1343.5	1332.0	1344.3	1341.2
12.5°	1331.3	1330.5	1319.0	1332.8	1330.5
15°	1311.4	1311.4	1304.5	1318.3	1316.0
17.5°	1289.9	1290.7	1285.3	1299.9	1298.4
20°	1263.9	1267.7	1263.9	1279.2	1277.7
22.5°	1235.6	1240.9	1239.4	1254.7	1255.5
25°	1205.7	1211.1	1212.6	1228.7	1226.4
27.5°	1172.8	1181.2	1184.3	1198.8	1198.1
30°	1134.5	1146.0	1152.9	1165.2	1169.0
32.5°	1095.5	1109.3	1117.7	1134.5	1139.1
35°	1056.4	1068.7	1082.5	1099.3	1103.1
37.5°	1013.6	1027.4	1045.7	1061.8	1066.4
40°	970.7	986.0	1003.6	1021.2	1028.1
42.5°	926.3	942.4	961.5	982.2	989.1
45°	875.8	897.2	920.2	937.8	943.9
47.5°	827.6	851.3	875.8	894.9	901.8
50°	778.6	803.8	829.8	847.5	858.2
52.5°	727.3	754.8	780.9	803.1	809.9
55°	675.2	702.8	731.9	755.6	760.9
57.5°	624.7	651.5	680.6	702.8	713.5
60°	569.6	598.7	630.0	652.2	663.7
62.5°	516.0	544.3	578.0	601.7	610.9
65°	464.7	490.7	525.2	549.7	558.1
67.5°	408.0	437.9	470.8	499.1	509.9
70°	352.1	380.5	418.0	444.8	455.5
72.5°	300.1	327.7	365.2	392.0	401.9
75°	245.0	274.1	313.9	340.7	353.7
77.5°	192.2	224.3	262.6	291.7	306.2
80°	143.2	171.5	212.8	245.0	258.0
82.5°	97.2	127.8	170.7	200.6	215.1
85°	59.7	91.9	131.7	160.0	170.0
87.5°	28.3	58.9	95.7	123.3	135.5
90°	3.8	32.9	67.4	94.2	104.1
92.5°	0.8	28.3	62.0	87.3	96.5
95°	0.8	28.3	61.2	85.7	94.9
97.5°	0.8	27.6	60.5	85.0	93.4
100°	0.8	26.8	59.7	83.4	92.6
102.5°	0.8	26.8	58.2	81.9	90.3
105°	0.8	26.0	57.4	80.4	88.8
107.5°	0.8	25.3	55.9	78.9	87.3
110°	0.8	23.7	55.1	76.6	85.0



TEST NUMBER: P566425

CATALOG NUMBER: 4SNX-45SL-FDL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	23.0	53.6	75.0	82.7
115°	0.8	22.2	52.1	72.7	80.4
117.5°	0.8	21.4	49.8	70.4	78.1
120°	1.5	21.4	48.2	68.1	75.0
122.5°	1.5	20.7	45.9	65.1	72.0
125°	1.5	19.9	43.6	62.8	69.7
127.5°	1.5	19.1	41.3	59.7	65.8
130°	1.5	17.6	39.8	56.7	62.8
132.5°	1.5	16.8	37.5	52.8	58.9
135°	1.5	15.3	35.2	49.8	55.9
137.5°	1.5	14.5	32.9	46.7	52.1
140°	1.5	13.8	29.9	43.6	49.0
142.5°	1.5	12.2	27.6	40.6	45.2
145°	1.5	11.5	24.5	37.5	41.3
147.5°	1.5	10.0	22.2	34.4	38.3
150°	1.5	9.2	19.9	31.4	35.2
152.5°	1.5	8.4	17.6	27.6	31.4
155°	1.5	7.7	16.1	23.7	28.3
157.5°	1.5	6.9	13.8	20.7	25.3
160°	2.3	6.1	12.2	17.6	21.4
162.5°	2.3	5.4	10.0	14.5	19.1
165°	2.3	5.4	8.4	11.5	16.1
167.5°	2.3	4.6	6.9	9.2	13.0
170°	2.3	3.8	6.1	6.9	10.0
172.5°	2.3	3.1	4.6	4.6	5.4
175°	2.3	3.1	3.8	3.8	2.3
177.5°	2.3	2.3	2.3	2.3	1.5
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)