

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: P566423

Luminaire Tested: **4SNX-45SL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566423  
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-L835-CD  
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

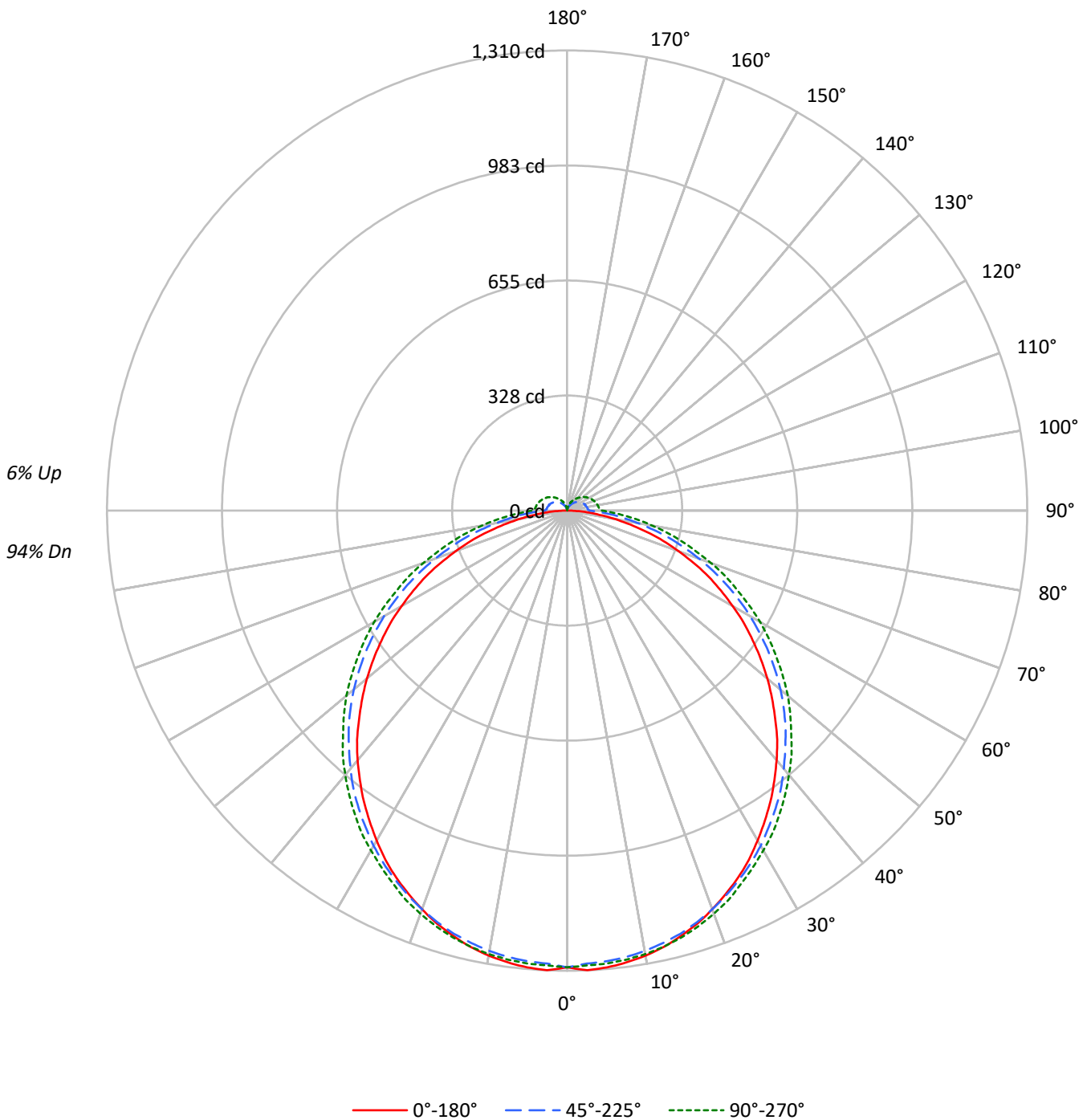
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4132.0 lumens  
Efficiency: N/A  
Efficacy: 138.7 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 (A<sub>in</sub>): 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	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°	13996	13996	13996
5°	14092	13764	13785
10°	14035	13615	13612
15°	13929	13443	13417
20°	13786	13235	13188
25°	13622	13006	12918
30°	13398	12773	12668
35°	13173	12499	12407
40°	12924	12198	12114
45°	12611	11898	11772
50°	12309	11558	11460
55°	11934	11136	11025
60°	11512	10653	10598
65°	11066	10079	10008
70°	10299	9355	9399
75°	9372	8503	8669
80°	8007	7373	7858
85°	6302	6395	6904



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	3.0
10°-20°	353.8	8.6
20°-30°	536.2	13.0
30°-40°	647.3	15.7
40°-50°	676.0	16.4
50°-60°	621.0	15.0
60°-70°	491.1	11.9
70°-80°	310.8	7.5
80°-90°	133.6	3.2
90°-100°	58.8	1.4
100°-110°	52.6	1.3
110°-120°	44.5	1.1
120°-130°	34.7	0.8
130°-140°	24.0	0.6
140°-150°	14.4	0.3
150°-160°	7.0	0.2
160°-170°	2.4	0.1
170°-180°	0.4	0.0
0°-30°	1013.4	24.5
0°-40°	1660.8	40.2
0°-60°	2957.8	71.6
0°-90°	3893.3	94.2
90°-120°	155.9	3.8
90°-150°	228.9	5.5
90°-180°	239.0	5.8
0°-180°	4132.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1305	1302	1288	1299	1294	124
15°	1253	1253	1247	1260	1258	354
25°	1152	1158	1159	1174	1172	531
35°	1010	1022	1035	1051	1054	631
45°	837	858	880	896	902	647
55°	645	672	700	722	727	577
65°	444	469	502	525	533	437
75°	234	262	300	326	338	248
85°	57	88	126	153	162	63
90°	4	32	64	90	100	5
95°	1	27	58	82	91	1
105°	1	25	55	77	85	1
115°	1	21	50	70	77	1
125°	2	19	42	60	67	1
135°	2	15	34	48	53	1
145°	2	11	23	36	40	1
155°	2	7	15	23	27	1
165°	2	5	8	11	15	1
175°	2	3	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°	1300.3	1300.3	1300.3	1300.3	1300.3
2.5°	1309.8	1305.4	1290.8	1301.0	1295.9
5°	1305.4	1301.7	1287.8	1298.8	1294.4
7.5°	1297.3	1294.4	1282.0	1293.7	1289.3
10°	1286.4	1284.2	1273.2	1284.9	1282.0
12.5°	1272.5	1271.7	1260.7	1273.9	1271.7
15°	1253.4	1253.4	1246.8	1260.0	1257.8
17.5°	1232.9	1233.7	1228.6	1242.5	1241.0
20°	1208.1	1211.7	1208.1	1222.7	1221.2
22.5°	1181.0	1186.1	1184.7	1199.3	1200.0
25°	1152.5	1157.6	1159.0	1174.4	1172.2
27.5°	1121.0	1129.0	1132.0	1145.9	1145.1
30°	1084.4	1095.4	1102.0	1113.7	1117.3
32.5°	1047.1	1060.3	1068.3	1084.4	1088.8
35°	1009.8	1021.5	1034.6	1050.7	1054.4
37.5°	968.8	982.0	999.5	1014.9	1019.3
40°	927.8	942.5	959.3	976.1	982.7
42.5°	885.4	900.7	919.0	938.8	945.4
45°	837.1	857.6	879.5	896.4	902.2
47.5°	791.0	813.7	837.1	855.4	862.0
50°	744.2	768.3	793.2	810.0	820.3
52.5°	695.1	721.5	746.4	767.6	774.2
55°	645.4	671.7	699.5	722.2	727.3
57.5°	597.1	622.7	650.5	671.7	682.0
60°	544.4	572.2	602.2	623.4	634.4
62.5°	493.2	520.3	552.4	575.1	583.9
65°	444.2	469.0	502.0	525.4	533.4
67.5°	390.0	418.5	450.0	477.1	487.3
70°	336.6	363.7	399.5	425.1	435.4
72.5°	286.8	313.2	349.0	374.6	384.2
75°	234.1	262.0	300.0	325.6	338.1
77.5°	183.7	214.4	251.0	278.8	292.7
80°	136.8	163.9	203.4	234.1	246.6
82.5°	92.9	122.2	163.2	191.7	205.6
85°	57.1	87.8	125.9	152.9	162.4
87.5°	27.1	56.3	91.5	117.8	129.5
90°	3.7	31.5	64.4	90.0	99.5
92.5°	0.7	27.1	59.3	83.4	92.2
95°	0.7	27.1	58.5	82.0	90.7
97.5°	0.7	26.3	57.8	81.2	89.3
100°	0.7	25.6	57.1	79.8	88.5
102.5°	0.7	25.6	55.6	78.3	86.3
105°	0.7	24.9	54.9	76.8	84.9
107.5°	0.7	24.1	53.4	75.4	83.4
110°	0.7	22.7	52.7	73.2	81.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	22.0	51.2	71.7	79.0
115°	0.7	21.2	49.8	69.5	76.8
117.5°	0.7	20.5	47.6	67.3	74.6
120°	1.5	20.5	46.1	65.1	71.7
122.5°	1.5	19.8	43.9	62.2	68.8
125°	1.5	19.0	41.7	60.0	66.6
127.5°	1.5	18.3	39.5	57.1	62.9
130°	1.5	16.8	38.0	54.1	60.0
132.5°	1.5	16.1	35.9	50.5	56.3
135°	1.5	14.6	33.7	47.6	53.4
137.5°	1.5	13.9	31.5	44.6	49.8
140°	1.5	13.2	28.5	41.7	46.8
142.5°	1.5	11.7	26.3	38.8	43.2
145°	1.5	11.0	23.4	35.9	39.5
147.5°	1.5	9.5	21.2	32.9	36.6
150°	1.5	8.8	19.0	30.0	33.7
152.5°	1.5	8.0	16.8	26.3	30.0
155°	1.5	7.3	15.4	22.7	27.1
157.5°	1.5	6.6	13.2	19.8	24.1
160°	2.2	5.9	11.7	16.8	20.5
162.5°	2.2	5.1	9.5	13.9	18.3
165°	2.2	5.1	8.0	11.0	15.4
167.5°	2.2	4.4	6.6	8.8	12.4
170°	2.2	3.7	5.9	6.6	9.5
172.5°	2.2	2.9	4.4	4.4	5.1
175°	2.2	2.9	3.7	3.7	2.2
177.5°	2.2	2.2	2.2	2.2	1.5
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)