

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: P566374

Luminaire Tested: **4SNX-41SL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566374  
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-L830-CD  
Description: 4FT 4100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

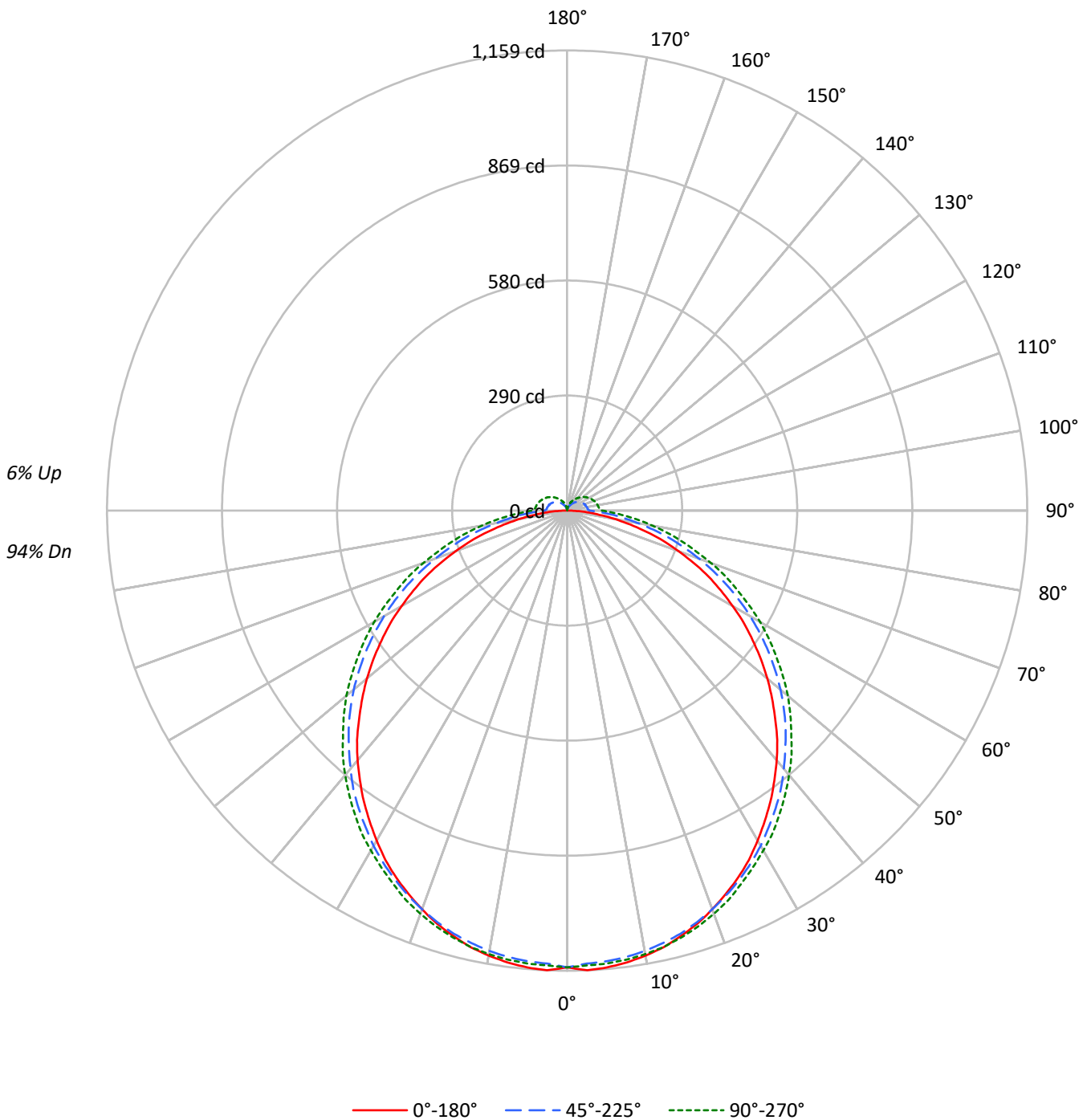
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3656.0 lumens  
Efficiency: N/A  
Efficacy: 139.0 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 (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	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°	12384	12384	12384
5°	12468	12179	12197
10°	12418	12047	12044
15°	12324	11895	11872
20°	12198	11710	11670
25°	12052	11508	11430
30°	11854	11301	11209
35°	11655	11060	10978
40°	11435	10793	10719
45°	11159	10528	10416
50°	10890	10226	10140
55°	10558	9853	9754
60°	10186	9426	9377
65°	9791	8917	8856
70°	9111	8277	8315
75°	8295	7522	7669
80°	7088	6524	6953
85°	5573	5659	6109



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.1	3.0
10°-20°	313.1	8.6
20°-30°	474.5	13.0
30°-40°	572.8	15.7
40°-50°	598.1	16.4
50°-60°	549.5	15.0
60°-70°	434.5	11.9
70°-80°	275.0	7.5
80°-90°	118.2	3.2
90°-100°	52.0	1.4
100°-110°	46.6	1.3
110°-120°	39.3	1.1
120°-130°	30.7	0.8
130°-140°	21.2	0.6
140°-150°	12.7	0.3
150°-160°	6.2	0.2
160°-170°	2.2	0.1
170°-180°	0.3	0.0
0°-30°	896.7	24.5
0°-40°	1469.4	40.2
0°-60°	2617.0	71.6
0°-90°	3444.8	94.2
90°-120°	137.9	3.8
90°-150°	202.5	5.5
90°-180°	211.0	5.8
0°-180°	3656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1155	1152	1140	1149	1145	110
15°	1109	1109	1103	1115	1113	313
25°	1020	1024	1026	1039	1037	470
35°	893	904	916	930	933	559
45°	741	759	778	793	798	572
55°	571	594	619	639	644	511
65°	393	415	444	465	472	387
75°	207	232	265	288	299	220
85°	50	78	111	135	144	56
90°	3	28	57	80	88	4
95°	1	24	52	72	80	0
105°	1	22	49	68	75	1
115°	1	19	44	62	68	1
125°	1	17	37	53	59	1
135°	1	13	30	42	47	1
145°	1	10	21	32	35	1
155°	1	6	14	20	24	1
165°	2	4	7	10	14	1
175°	2	3	3	3	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1150.5	1150.5	1150.5	1150.5	1150.5
2.5°	1158.9	1155.0	1142.1	1151.1	1146.6
5°	1155.0	1151.8	1139.5	1149.2	1145.3
7.5°	1147.9	1145.3	1134.3	1144.6	1140.8
10°	1138.2	1136.2	1126.5	1136.9	1134.3
12.5°	1125.9	1125.2	1115.5	1127.2	1125.2
15°	1109.0	1109.0	1103.2	1114.9	1112.9
17.5°	1090.9	1091.6	1087.0	1099.3	1098.0
20°	1068.9	1072.1	1068.9	1081.8	1080.6
22.5°	1044.9	1049.5	1048.2	1061.1	1061.8
25°	1019.7	1024.2	1025.5	1039.1	1037.2
27.5°	991.9	999.0	1001.6	1013.9	1013.2
30°	959.5	969.2	975.0	985.4	988.6
32.5°	926.5	938.1	945.2	959.5	963.4
35°	893.4	903.8	915.5	929.7	932.9
37.5°	857.2	868.8	884.4	898.0	901.9
40°	820.9	833.9	848.8	863.7	869.5
42.5°	783.4	797.0	813.2	830.6	836.5
45°	740.7	758.8	778.2	793.1	798.3
47.5°	699.9	719.9	740.7	756.8	762.7
50°	658.4	679.8	701.8	716.7	725.8
52.5°	615.1	638.4	660.4	679.1	685.0
55°	571.0	594.3	618.9	639.0	643.5
57.5°	528.3	551.0	575.6	594.3	603.4
60°	481.7	506.3	532.8	551.6	561.3
62.5°	436.4	460.3	488.8	508.9	516.6
65°	393.0	415.0	444.1	464.9	472.0
67.5°	345.1	370.3	398.2	422.1	431.2
70°	297.8	321.8	353.5	376.2	385.2
72.5°	253.8	277.1	308.8	331.5	339.9
75°	207.2	231.8	265.4	288.1	299.1
77.5°	162.5	189.7	222.1	246.7	259.0
80°	121.1	145.0	180.0	207.2	218.2
82.5°	82.2	108.1	144.4	169.6	181.9
85°	50.5	77.7	111.4	135.3	143.7
87.5°	24.0	49.9	80.9	104.2	114.6
90°	3.2	27.8	57.0	79.6	88.0
92.5°	0.6	24.0	52.4	73.8	81.6
95°	0.6	24.0	51.8	72.5	80.3
97.5°	0.6	23.3	51.1	71.9	79.0
100°	0.6	22.7	50.5	70.6	78.3
102.5°	0.6	22.7	49.2	69.3	76.4
105°	0.6	22.0	48.6	68.0	75.1
107.5°	0.6	21.4	47.3	66.7	73.8
110°	0.6	20.1	46.6	64.7	71.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	19.4	45.3	63.4	69.9
115°	0.6	18.8	44.0	61.5	68.0
117.5°	0.6	18.1	42.1	59.6	66.0
120°	1.3	18.1	40.8	57.6	63.4
122.5°	1.3	17.5	38.8	55.0	60.9
125°	1.3	16.8	36.9	53.1	58.9
127.5°	1.3	16.2	35.0	50.5	55.7
130°	1.3	14.9	33.7	47.9	53.1
132.5°	1.3	14.2	31.7	44.7	49.9
135°	1.3	12.9	29.8	42.1	47.3
137.5°	1.3	12.3	27.8	39.5	44.0
140°	1.3	11.7	25.2	36.9	41.4
142.5°	1.3	10.4	23.3	34.3	38.2
145°	1.3	9.7	20.7	31.7	35.0
147.5°	1.3	8.4	18.8	29.1	32.4
150°	1.3	7.8	16.8	26.5	29.8
152.5°	1.3	7.1	14.9	23.3	26.5
155°	1.3	6.5	13.6	20.1	24.0
157.5°	1.3	5.8	11.7	17.5	21.4
160°	1.9	5.2	10.4	14.9	18.1
162.5°	1.9	4.5	8.4	12.3	16.2
165°	1.9	4.5	7.1	9.7	13.6
167.5°	1.9	3.9	5.8	7.8	11.0
170°	1.9	3.2	5.2	5.8	8.4
172.5°	1.9	2.6	3.9	3.9	4.5
175°	1.9	2.6	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)