

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: P566590

Luminaire Tested: **4SNX-57SL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-57SL-LW-UNV-L830-CD  
Description: 4FT 5700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

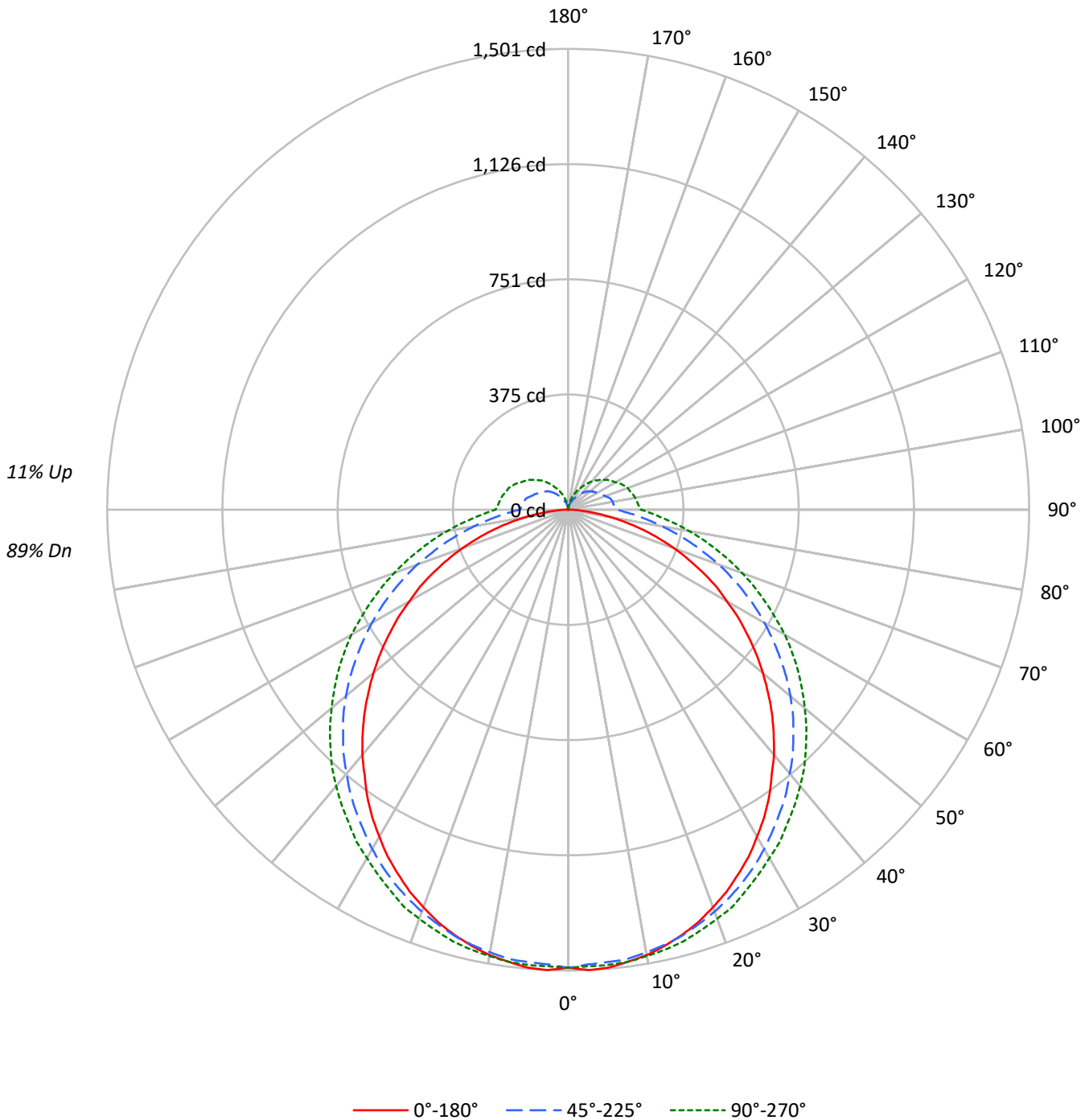
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5310.0 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 39.7  
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	76	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16055	16055	16055
5°	16124	15313	15197
10°	15984	14702	14438
15°	15795	14111	13754
20°	15547	13498	13069
25°	15263	12910	12400
30°	14931	12305	11758
35°	14568	11698	11159
40°	14155	11105	10586
45°	13708	10512	10000
50°	13198	9901	9385
55°	12638	9219	8781
60°	11979	8508	8143
65°	11288	7742	7415
70°	10335	6924	6700
75°	9077	5973	5940
80°	7095	5013	5184
85°	4635	4123	4406



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	2.7
10°-20°	407.2	7.7
20°-30°	619.2	11.7
30°-40°	751.6	14.2
40°-50°	794.3	15.0
50°-60°	743.2	14.0
60°-70°	609.8	11.5
70°-80°	419.4	7.9
80°-90°	229.7	4.3
90°-100°	147.9	2.8
100°-110°	132.7	2.5
110°-120°	109.9	2.1
120°-130°	84.6	1.6
130°-140°	59.4	1.1
140°-150°	35.8	0.7
150°-160°	17.2	0.3
160°-170°	5.6	0.1
170°-180°	0.7	0.0
0°-30°	1168.1	22.0
0°-40°	1919.7	36.2
0°-60°	3457.2	65.1
0°-90°	4716.2	88.8
90°-120°	390.5	7.4
90°-150°	570.4	10.7
90°-180°	594.0	11.2
0°-180°	5310.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1498	1495	1479	1492	1488	142
15°	1433	1439	1436	1455	1455	404
25°	1310	1326	1341	1369	1369	604
35°	1141	1169	1202	1236	1246	713
45°	938	981	1036	1083	1095	723
55°	714	772	843	895	913	638
65°	483	547	630	689	707	478
75°	252	320	412	477	498	266
85°	55	132	224	286	308	64
90°	0	74	157	215	237	4
95°	0	71	151	206	228	0
105°	0	58	142	194	212	2
115°	3	52	120	172	194	3
125°	3	43	102	148	166	3
135°	3	34	83	120	135	2
145°	3	25	58	92	102	2
155°	3	15	37	58	68	1
165°	3	9	18	28	34	1
175°	3	3	6	6	3	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1491.6	1491.6	1491.6	1491.6	1491.6
2.5°	1500.8	1497.7	1482.4	1494.7	1488.5
5°	1497.7	1494.7	1479.3	1491.6	1488.5
7.5°	1485.4	1485.4	1476.2	1488.5	1485.4
10°	1473.1	1473.1	1463.9	1479.3	1476.2
12.5°	1454.7	1457.8	1451.6	1470.1	1467.0
15°	1433.2	1439.3	1436.2	1454.7	1454.7
17.5°	1408.6	1414.7	1414.7	1436.2	1436.2
20°	1377.8	1387.0	1393.2	1417.8	1417.8
22.5°	1347.0	1359.3	1368.6	1390.1	1399.3
25°	1310.1	1325.5	1340.9	1368.6	1368.6
27.5°	1273.2	1291.7	1310.1	1337.8	1340.9
30°	1230.2	1251.7	1276.3	1304.0	1310.1
32.5°	1187.1	1214.8	1239.4	1273.2	1282.5
35°	1141.0	1168.7	1202.5	1236.3	1245.6
37.5°	1088.7	1122.5	1165.6	1202.5	1211.7
40°	1042.6	1079.5	1122.5	1165.6	1174.8
42.5°	990.3	1030.3	1082.6	1122.5	1137.9
45°	938.0	981.1	1036.4	1082.6	1094.9
47.5°	882.7	931.9	993.4	1036.4	1051.8
50°	827.3	879.6	944.2	993.4	1005.7
52.5°	771.9	827.3	895.0	944.2	959.5
55°	713.5	771.9	842.7	895.0	913.4
57.5°	658.1	716.6	790.4	845.7	864.2
60°	596.6	664.3	738.1	793.5	815.0
62.5°	544.4	605.9	685.8	741.2	759.6
65°	482.8	547.4	630.5	688.9	707.4
67.5°	424.4	492.1	575.1	636.6	655.1
70°	366.0	433.6	522.8	581.3	602.8
72.5°	307.5	378.3	464.4	529.0	550.5
75°	252.2	319.8	412.1	476.7	498.2
77.5°	193.8	267.6	359.8	424.4	449.0
80°	141.5	218.4	310.6	375.2	399.8
82.5°	95.3	172.2	264.5	329.1	353.7
85°	55.4	132.2	224.5	286.0	307.5
87.5°	27.7	101.5	187.6	249.1	270.6
90°	0.0	73.8	156.8	215.3	236.8
92.5°	0.0	70.7	153.8	209.1	230.7
95°	0.0	70.7	150.7	206.1	227.6
97.5°	0.0	67.7	147.6	206.1	224.5
100°	0.0	64.6	147.6	203.0	221.4
102.5°	0.0	61.5	144.5	199.9	218.4
105°	0.0	58.4	141.5	193.8	212.2
107.5°	3.1	58.4	135.3	190.7	209.1
110°	3.1	55.4	129.2	187.6	206.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	52.3	123.0	181.5	199.9
115°	3.1	52.3	119.9	172.2	193.8
117.5°	3.1	49.2	113.8	166.1	187.6
120°	3.1	49.2	110.7	159.9	178.4
122.5°	3.1	46.1	104.6	153.8	172.2
125°	3.1	43.1	101.5	147.6	166.1
127.5°	3.1	40.0	98.4	141.5	159.9
130°	3.1	36.9	92.3	135.3	150.7
132.5°	3.1	36.9	89.2	126.1	144.5
135°	3.1	33.8	83.0	119.9	135.3
137.5°	3.1	30.8	76.9	113.8	129.2
140°	3.1	27.7	70.7	107.6	119.9
142.5°	3.1	27.7	64.6	98.4	110.7
145°	3.1	24.6	58.4	92.3	101.5
147.5°	3.1	21.5	52.3	83.0	92.3
150°	3.1	21.5	46.1	73.8	83.0
152.5°	3.1	18.5	40.0	67.7	76.9
155°	3.1	15.4	36.9	58.4	67.7
157.5°	3.1	15.4	30.8	49.2	58.4
160°	3.1	12.3	27.7	40.0	49.2
162.5°	3.1	12.3	24.6	33.8	43.1
165°	3.1	9.2	18.5	27.7	33.8
167.5°	3.1	9.2	15.4	21.5	27.7
170°	3.1	6.2	12.3	15.4	21.5
172.5°	3.1	6.2	9.2	9.2	9.2
175°	3.1	3.1	6.2	6.2	3.1
177.5°	3.1	3.1	3.1	3.1	3.1
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)