

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: P566542

Luminaire Tested: **4SNX-51SL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566542  
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-51SL-LW-UNV-L830-CD  
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

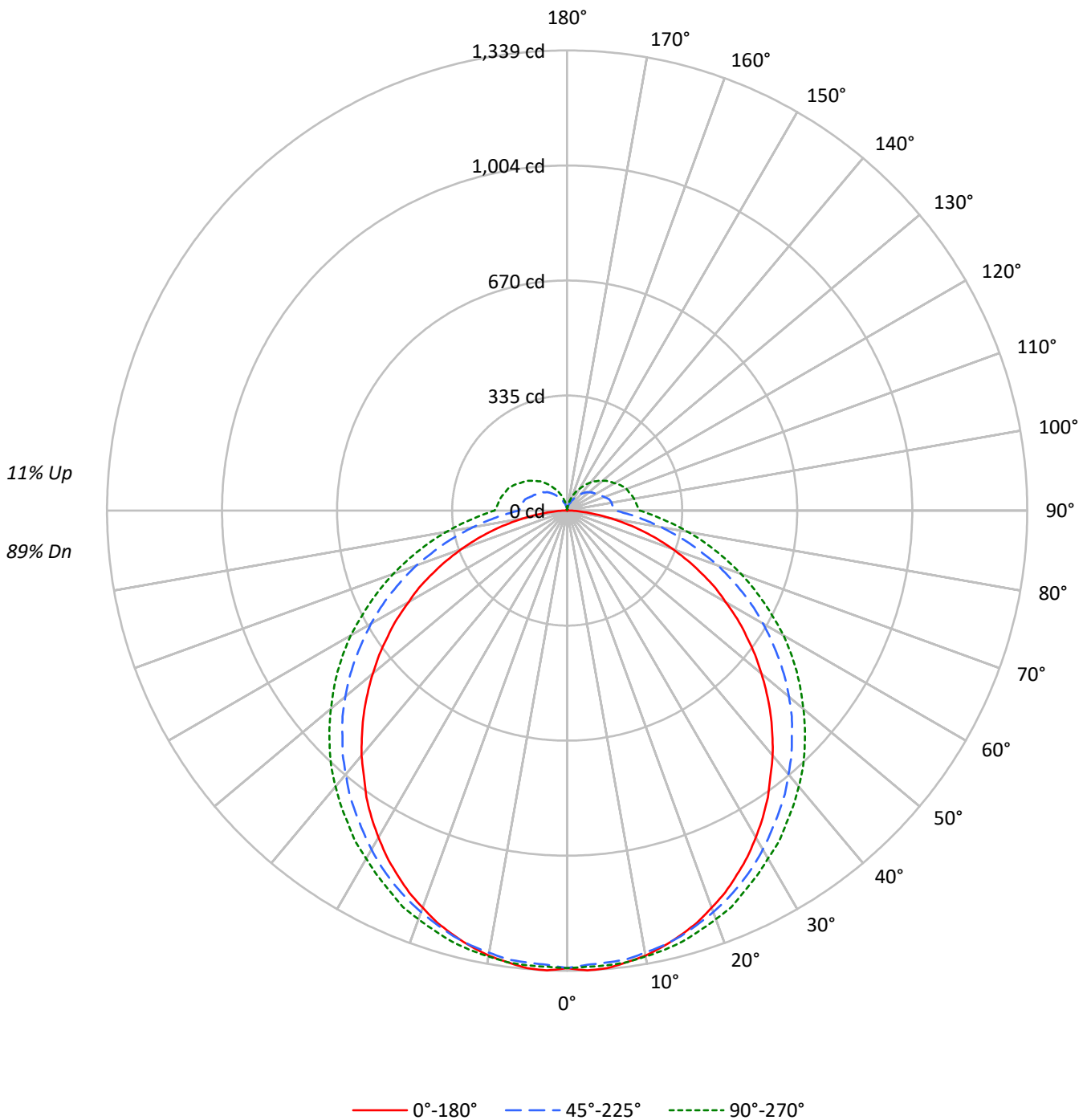
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4739.0 lumens  
Efficiency: N/A  
Efficacy: 135.4 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): 35  
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	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	77	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°	14329	14329	14329
5°	14391	13666	13563
10°	14265	13121	12885
15°	14095	12594	12275
20°	13874	12047	11663
25°	13623	11522	11066
30°	13325	10982	10494
35°	13001	10441	9958
40°	12633	9911	9448
45°	12233	9382	8924
50°	11778	8836	8375
55°	11279	8228	7837
60°	10692	7593	7267
65°	10075	6910	6618
70°	9223	6180	5979
75°	8102	5331	5301
80°	6333	4474	4626
85°	4133	3680	3933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	2.7
10°-20°	363.4	7.7
20°-30°	552.6	11.7
30°-40°	670.8	14.2
40°-50°	708.8	15.0
50°-60°	663.3	14.0
60°-70°	544.3	11.5
70°-80°	374.3	7.9
80°-90°	205.0	4.3
90°-100°	132.0	2.8
100°-110°	118.5	2.5
110°-120°	98.0	2.1
120°-130°	75.5	1.6
130°-140°	53.0	1.1
140°-150°	32.0	0.7
150°-160°	15.3	0.3
160°-170°	5.0	0.1
170°-180°	0.6	0.0
0°-30°	1042.5	22.0
0°-40°	1713.3	36.2
0°-60°	3085.4	65.1
0°-90°	4209.0	88.8
90°-120°	348.5	7.4
90°-150°	509.0	10.7
90°-180°	530.0	11.2
0°-180°	4739.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1337	1334	1320	1331	1328	127
15°	1279	1284	1282	1298	1298	361
25°	1169	1183	1197	1221	1221	539
35°	1018	1043	1073	1103	1112	636
45°	837	876	925	966	977	645
55°	637	689	752	799	815	570
65°	431	489	563	615	631	427
75°	225	286	368	425	445	237
85°	49	118	200	255	274	57
90°	0	66	140	192	211	3
95°	0	63	134	184	203	0
105°	0	52	126	173	189	2
115°	3	47	107	154	173	3
125°	3	38	91	132	148	2
135°	3	30	74	107	121	2
145°	3	22	52	82	91	2
155°	3	14	33	52	60	1
165°	3	8	16	25	30	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°	1331.2	1331.2	1331.2	1331.2	1331.2
2.5°	1339.4	1336.7	1323.0	1333.9	1328.5
5°	1336.7	1333.9	1320.2	1331.2	1328.5
7.5°	1325.7	1325.7	1317.5	1328.5	1325.7
10°	1314.7	1314.7	1306.5	1320.2	1317.5
12.5°	1298.3	1301.0	1295.5	1312.0	1309.2
15°	1279.0	1284.5	1281.8	1298.3	1298.3
17.5°	1257.1	1262.6	1262.6	1281.8	1281.8
20°	1229.6	1237.9	1243.4	1265.3	1265.3
22.5°	1202.2	1213.2	1221.4	1240.6	1248.9
25°	1169.3	1183.0	1196.7	1221.4	1221.4
27.5°	1136.3	1152.8	1169.3	1194.0	1196.7
30°	1097.9	1117.1	1139.1	1163.8	1169.3
32.5°	1059.5	1084.2	1106.1	1136.3	1144.6
35°	1018.3	1043.0	1073.2	1103.4	1111.6
37.5°	971.6	1001.8	1040.3	1073.2	1081.4
40°	930.5	963.4	1001.8	1040.3	1048.5
42.5°	883.8	919.5	966.1	1001.8	1015.6
45°	837.1	875.6	925.0	966.1	977.1
47.5°	787.7	831.7	886.5	925.0	938.7
50°	738.3	785.0	842.6	886.5	897.5
52.5°	688.9	738.3	798.7	842.6	856.4
55°	636.8	688.9	752.1	798.7	815.2
57.5°	587.4	639.5	705.4	754.8	771.3
60°	532.5	592.9	658.7	708.1	727.4
62.5°	485.8	540.7	612.1	661.5	677.9
65°	430.9	488.6	562.7	614.8	631.3
67.5°	378.8	439.2	513.3	568.2	584.6
70°	326.6	387.0	466.6	518.8	538.0
72.5°	274.5	337.6	414.5	472.1	491.3
75°	225.1	285.5	367.8	425.4	444.6
77.5°	172.9	238.8	321.1	378.8	400.7
80°	126.3	194.9	277.2	334.9	356.8
82.5°	85.1	153.7	236.0	293.7	315.6
85°	49.4	118.0	200.4	255.3	274.5
87.5°	24.7	90.6	167.4	222.3	241.5
90°	0.0	65.9	140.0	192.1	211.3
92.5°	0.0	63.1	137.2	186.6	205.9
95°	0.0	63.1	134.5	183.9	203.1
97.5°	0.0	60.4	131.7	183.9	200.4
100°	0.0	57.6	131.7	181.2	197.6
102.5°	0.0	54.9	129.0	178.4	194.9
105°	0.0	52.1	126.3	172.9	189.4
107.5°	2.7	52.1	120.8	170.2	186.6
110°	2.7	49.4	115.3	167.4	183.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	46.7	109.8	161.9	178.4
115°	2.7	46.7	107.0	153.7	172.9
117.5°	2.7	43.9	101.6	148.2	167.4
120°	2.7	43.9	98.8	142.7	159.2
122.5°	2.7	41.2	93.3	137.2	153.7
125°	2.7	38.4	90.6	131.7	148.2
127.5°	2.7	35.7	87.8	126.3	142.7
130°	2.7	32.9	82.3	120.8	134.5
132.5°	2.7	32.9	79.6	112.5	129.0
135°	2.7	30.2	74.1	107.0	120.8
137.5°	2.7	27.4	68.6	101.6	115.3
140°	2.7	24.7	63.1	96.1	107.0
142.5°	2.7	24.7	57.6	87.8	98.8
145°	2.7	22.0	52.1	82.3	90.6
147.5°	2.7	19.2	46.7	74.1	82.3
150°	2.7	19.2	41.2	65.9	74.1
152.5°	2.7	16.5	35.7	60.4	68.6
155°	2.7	13.7	32.9	52.1	60.4
157.5°	2.7	13.7	27.4	43.9	52.1
160°	2.7	11.0	24.7	35.7	43.9
162.5°	2.7	11.0	22.0	30.2	38.4
165°	2.7	8.2	16.5	24.7	30.2
167.5°	2.7	8.2	13.7	19.2	24.7
170°	2.7	5.5	11.0	13.7	19.2
172.5°	2.7	5.5	8.2	8.2	8.2
175°	2.7	2.7	5.5	5.5	2.7
177.5°	2.7	2.7	2.7	2.7	2.7
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)