

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: P566527

Luminaire Tested: **4SNX-51SL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-51SL-LC-UNV-L835-CD  
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

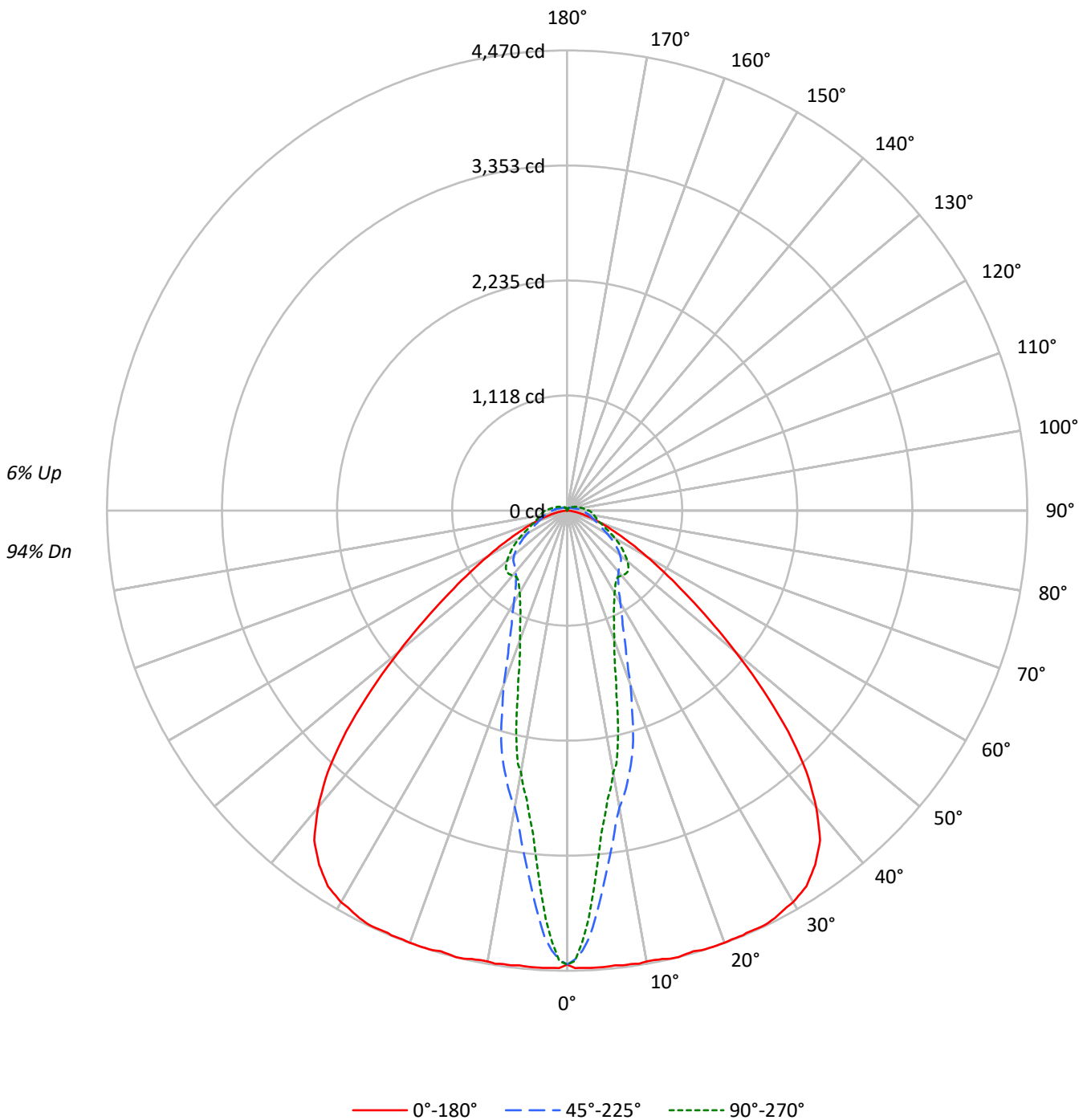
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5435.0 lumens  
Efficiency: N/A  
Efficacy: 155.3 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 35  
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

TEST NUMBER: P566527  
CATALOG NUMBER: 4SNX-51SL-LC-UNV-L835-CD

### 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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94					94			
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80					80			
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69					69			
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60					60			
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53					53			
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47					47			
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42					42			
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38					38			
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35					35			
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32					32			
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30					30			

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

	0°	45°	90°
0°	47459	47459	47459
5°	47887	38980	34892
10°	48263	29427	25253
15°	49144	24055	17485
20°	50411	17405	12349
25°	51985	12470	9715
30°	53311	9962	8274
35°	53627	8427	7410
40°	51125	7660	7428
45°	44367	7401	7632
50°	34037	7039	7122
55°	24668	6155	6319
60°	17896	5137	5343
65°	13025	4343	4380
70°	9596	3837	3777
75°	6817	3553	3520
80°	4467	3326	3467
85°	2100	3172	3471



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.7	6.4
10°-20°	753.0	13.9
20°-30°	861.9	15.9
30°-40°	863.4	15.9
40°-50°	817.3	15.0
50°-60°	626.8	11.5
60°-70°	404.0	7.4
70°-80°	257.7	4.7
80°-90°	171.1	3.1
90°-100°	115.0	2.1
100°-110°	75.8	1.4
110°-120°	52.7	1.0
120°-130°	36.8	0.7
130°-140°	25.5	0.5
140°-150°	15.6	0.3
150°-160°	7.9	0.1
160°-170°	3.1	0.1
170°-180°	0.6	0.0
0°-30°	1961.6	36.1
0°-40°	2825.0	52.0
0°-60°	4269.2	78.5
0°-90°	5102.0	93.9
90°-120°	243.5	4.5
90°-150°	321.4	5.9
90°-180°	333.0	6.1
0°-180°	5435.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4409	4409	4409	4409	4409	
5°	4448	4203	3766	3512	3418	425
15°	4459	3212	2448	2011	1849	1265
25°	4462	2273	1295	1125	1072	2057
35°	4200	1264	866	838	827	2606
45°	3036	799	730	808	836	2308
55°	1393	571	563	632	657	1281
65°	557	359	354	404	418	573
75°	189	195	245	281	295	208
85°	25	89	173	226	242	34
90°	0	61	145	200	209	1
95°	0	45	120	164	173	0
105°	0	33	78	111	120	2
115°	3	28	58	81	86	3
125°	3	25	50	58	61	3
135°	3	20	39	47	50	2
145°	3	14	28	36	39	2
155°	3	8	17	25	28	1
165°	6	6	11	14	17	1
175°	6	6	6	6	3	1
180°	6	6	6	6	6	



TEST NUMBER: P566527

CATALOG NUMBER: 4SNX-51SL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4409.1	4409.1	4409.1	4409.1	4409.1
1°	4445.3	4420.3	4361.8	4378.5	4375.7
2°	4445.3	4392.4	4278.2	4244.8	4194.7
3°	4448.1	4345.1	4150.1	4041.5	3971.8
4°	4448.1	4275.4	3960.7	3779.7	3690.5
5°	4448.1	4203.0	3765.7	3512.3	3417.6
6°	4442.6	4116.7	3568.0	3300.6	3158.5
7°	4450.9	4022.0	3389.7	3102.8	2991.4
8°	4448.1	3910.6	3225.4	2952.4	2829.9
9°	4456.5	3801.9	3047.1	2810.4	2718.5
10°	4448.1	3701.7	2930.1	2676.7	2582.0
11°	4448.1	3604.2	2846.6	2590.3	2509.6
12°	4453.7	3492.8	2754.7	2467.8	2356.4
13°	4467.6	3378.6	2648.8	2334.1	2203.2
14°	4470.4	3292.2	2551.3	2164.2	2027.7
15°	4459.3	3211.5	2448.3	2011.0	1849.4
16°	4453.7	3127.9	2325.7	1866.2	1721.3
17°	4464.8	3030.4	2186.5	1718.5	1584.8
18°	4467.6	2941.3	2038.8	1607.1	1490.1
19°	4467.6	2871.6	1919.1	1504.1	1403.8
20°	4467.6	2804.8	1796.5	1426.1	1339.7
21°	4462.1	2721.2	1657.3	1345.3	1272.9
22.5°	4464.8	2565.3	1498.5	1250.6	1192.1
23°	4456.5	2526.3	1459.5	1225.5	1164.3
24°	4459.3	2414.9	1375.9	1175.4	1116.9
25°	4462.1	2272.8	1295.2	1125.3	1072.3
26°	4456.5	2158.6	1228.3	1077.9	1041.7
27°	4442.6	2066.7	1181.0	1038.9	1005.5
28°	4423.1	1944.1	1130.8	1005.5	974.9
29°	4403.6	1804.9	1080.7	969.3	947.0
30°	4392.4	1693.5	1033.3	941.4	921.9
32.5°	4325.6	1473.4	935.9	885.7	869.0
35°	4200.2	1264.5	866.2	838.4	827.2
37.5°	4035.9	1103.0	813.3	807.7	810.5
40°	3765.7	974.9	774.3	799.4	824.4
42.5°	3442.6	874.6	746.5	807.7	835.6
45°	3036.0	799.4	729.7	807.7	835.6
47.5°	2584.8	738.1	710.3	779.9	807.7
50°	2133.5	682.4	671.3	738.1	763.2
52.5°	1735.2	629.5	621.1	685.2	710.3
55°	1392.7	571.0	562.6	632.3	657.3
57.5°	1116.9	515.3	506.9	571.0	596.1
60°	891.3	459.6	445.6	509.7	534.8
62.5°	710.3	406.7	398.3	454.0	476.3
65°	557.1	359.3	353.7	403.9	417.8



TEST NUMBER: P566527

CATALOG NUMBER: 4SNX-51SL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	440.1	314.7	317.5	359.3	376.0
70°	339.8	273.0	289.7	328.7	339.8
72.5°	256.2	231.2	267.4	300.8	314.7
75°	189.4	195.0	245.1	281.3	295.2
77.5°	130.9	161.5	225.6	264.6	278.5
80°	89.1	130.9	206.1	250.7	267.4
82.5°	52.9	108.6	189.4	236.8	256.2
85°	25.1	89.1	172.7	225.6	242.3
87.5°	8.4	72.4	156.0	214.5	228.4
90°	0.0	61.3	144.8	200.5	208.9
92.5°	0.0	52.9	130.9	183.8	189.4
95°	0.0	44.6	119.8	164.3	172.7
97.5°	0.0	41.8	111.4	147.6	158.8
100°	0.0	39.0	100.3	133.7	144.8
102.5°	0.0	33.4	89.1	119.8	130.9
105°	0.0	33.4	78.0	111.4	119.8
107.5°	2.8	30.6	72.4	100.3	111.4
110°	2.8	30.6	64.1	94.7	103.1
112.5°	2.8	30.6	61.3	86.3	97.5
115°	2.8	27.9	58.5	80.8	86.3
117.5°	2.8	27.9	55.7	72.4	78.0
120°	2.8	25.1	52.9	66.8	69.6
122.5°	2.8	25.1	50.1	61.3	64.1
125°	2.8	25.1	50.1	58.5	61.3
127.5°	2.8	22.3	47.4	55.7	55.7
130°	2.8	22.3	44.6	52.9	52.9
132.5°	2.8	19.5	41.8	50.1	52.9
135°	2.8	19.5	39.0	47.4	50.1
137.5°	2.8	16.7	36.2	44.6	47.4
140°	2.8	16.7	33.4	41.8	44.6
142.5°	2.8	13.9	30.6	39.0	41.8
145°	2.8	13.9	27.9	36.2	39.0
147.5°	2.8	13.9	25.1	33.4	36.2
150°	2.8	11.1	22.3	30.6	33.4
152.5°	2.8	11.1	19.5	27.9	30.6
155°	2.8	8.4	16.7	25.1	27.9
157.5°	2.8	8.4	16.7	22.3	25.1
160°	5.6	8.4	13.9	19.5	22.3
162.5°	2.8	5.6	13.9	16.7	19.5
165°	5.6	5.6	11.1	13.9	16.7
167.5°	5.6	5.6	8.4	11.1	13.9
170°	5.6	5.6	8.4	8.4	11.1
172.5°	5.6	5.6	5.6	8.4	5.6
175°	5.6	5.6	5.6	5.6	2.8
177.5°	5.6	5.6	5.6	5.6	2.8



TEST NUMBER: P566527

CATALOG NUMBER: 4SNX-51SL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)