

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: P566534

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-51SL-LN-UNV-L830-CD
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

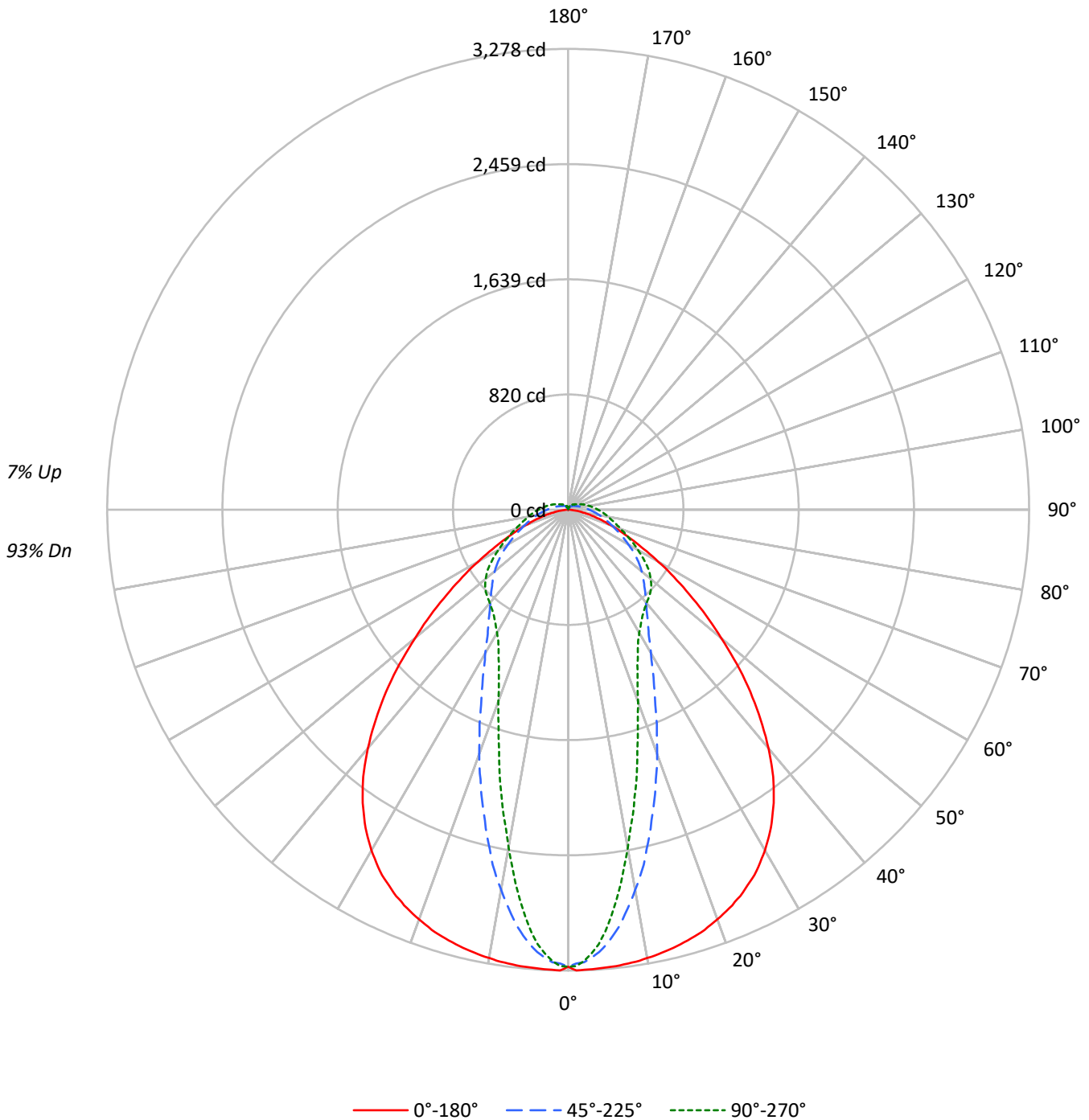
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5182.0 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
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 (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

TEST NUMBER: P566534
CATALOG NUMBER: 4SNX-51SL-LN-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566534

CATALOG NUMBER: 4SNX-51SL-LN-UNV-L830-CD

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	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34991	34991	34991
5°	35173	32161	30777
10°	35124	27575	23879
15°	35107	22493	17897
20°	34996	17919	13394
25°	34677	14041	10629
30°	33951	11364	9067
35°	32525	9617	8248
40°	30087	8490	7806
45°	26750	7768	7565
50°	22660	7148	7147
55°	18616	6477	6527
60°	14886	5698	5725
65°	11557	5003	4982
70°	8971	4424	4407
75°	6939	3976	4016
80°	4904	3638	3733
85°	2727	3392	3580



TEST NUMBER: P566534

CATALOG NUMBER: 4SNX-51SL-LN-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.9	5.6
10°-20°	674.8	13.0
20°-30°	801.0	15.5
30°-40°	805.9	15.6
40°-50°	749.1	14.5
50°-60°	616.8	11.9
60°-70°	434.7	8.4
70°-80°	284.0	5.5
80°-90°	181.3	3.5
90°-100°	118.9	2.3
100°-110°	80.7	1.6
110°-120°	55.3	1.1
120°-130°	38.3	0.7
130°-140°	25.8	0.5
140°-150°	15.9	0.3
150°-160°	8.2	0.2
160°-170°	3.0	0.1
170°-180°	0.5	0.0
0°-30°	1763.7	34.0
0°-40°	2569.6	49.6
0°-60°	3935.5	75.9
0°-90°	4835.4	93.3
90°-120°	254.9	4.9
90°-150°	334.8	6.5
90°-180°	347.0	6.7
0°-180°	5182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3251	3251	3251	3251	3251	
5°	3267	3224	3107	3047	3014	311
15°	3186	2846	2289	2002	1893	900
25°	2976	2200	1458	1225	1173	1370
35°	2547	1488	989	926	921	1584
45°	1830	980	766	807	828	1405
55°	1051	644	592	657	679	949
65°	494	388	407	459	475	501
75°	193	201	274	323	337	209
85°	33	92	185	239	250	41
90°	0	62	149	204	212	2
95°	0	46	125	171	179	0
105°	0	33	84	120	130	0
115°	3	27	60	87	92	2
125°	3	22	49	62	68	2
135°	3	19	38	49	52	2
145°	3	14	27	38	41	2
155°	3	11	19	27	30	1
165°	3	5	11	14	16	1
175°	5	5	5	5	3	0
180°	3	3	3	3	3	



TEST NUMBER: P566534

CATALOG NUMBER: 4SNX-51SL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3250.8	3250.8	3250.8	3250.8	3250.8
1°	3278.0	3264.4	3229.1	3253.5	3248.1
2°	3275.3	3261.7	3220.9	3231.8	3212.8
3°	3272.6	3253.5	3191.1	3188.4	3161.2
4°	3269.8	3240.0	3153.1	3120.5	3098.7
5°	3267.1	3223.7	3106.9	3047.1	3014.5
6°	3264.4	3204.7	3047.1	2957.5	2911.3
7°	3259.0	3174.8	2984.7	2862.5	2802.7
8°	3253.5	3147.6	2905.9	2759.3	2685.9
9°	3248.1	3112.3	2827.2	2647.9	2561.0
10°	3237.2	3077.0	2745.7	2533.9	2441.5
11°	3231.8	3036.3	2666.9	2425.2	2316.6
12°	3220.9	2992.8	2582.7	2311.2	2216.1
13°	3210.1	2946.7	2479.5	2213.4	2099.3
14°	3199.2	2897.8	2389.9	2104.8	1998.8
15°	3185.6	2846.2	2289.4	2001.6	1892.9
16°	3172.1	2786.4	2199.8	1895.6	1781.6
17°	3158.5	2729.4	2115.6	1797.9	1694.7
18°	3142.2	2672.4	2017.8	1702.8	1602.3
19°	3120.5	2607.2	1939.1	1615.9	1523.6
20°	3101.5	2547.4	1849.5	1534.4	1453.0
21°	3079.7	2474.1	1759.8	1458.4	1376.9
22.5°	3047.1	2370.9	1645.8	1363.3	1287.3
23°	3030.8	2341.0	1599.6	1328.0	1262.9
24°	3009.1	2262.3	1523.6	1273.7	1208.5
25°	2976.5	2199.8	1458.4	1224.8	1173.2
26°	2946.7	2123.8	1393.2	1181.4	1129.8
27°	2916.8	2050.4	1336.2	1135.2	1091.8
28°	2878.8	1974.4	1273.7	1097.2	1059.2
29°	2838.0	1903.8	1222.1	1064.6	1034.7
30°	2797.3	1825.0	1178.7	1034.7	1010.3
32.5°	2683.2	1651.2	1067.3	977.7	961.4
35°	2547.4	1488.3	988.6	926.1	920.7
37.5°	2395.3	1338.9	917.9	885.4	890.8
40°	2216.1	1203.1	858.2	855.5	866.3
42.5°	2026.0	1086.3	812.0	831.0	847.3
45°	1830.5	980.4	765.9	806.6	828.3
47.5°	1626.8	888.1	725.1	776.7	801.2
50°	1420.4	798.4	681.7	741.4	765.9
52.5°	1235.7	719.7	638.2	700.7	727.8
55°	1051.0	643.6	592.0	657.2	679.0
57.5°	890.8	573.0	543.2	608.3	624.6
60°	741.4	505.1	494.3	554.0	573.0
62.5°	605.6	445.4	448.1	505.1	524.2
65°	494.3	388.4	407.4	459.0	475.3



TEST NUMBER: P566534

CATALOG NUMBER: 4SNX-51SL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	401.9	334.0	366.6	421.0	434.5
70°	317.7	285.2	334.0	382.9	396.5
72.5°	252.6	241.7	301.5	353.1	363.9
75°	192.8	201.0	274.3	323.2	336.8
77.5°	138.5	168.4	247.1	298.7	309.6
80°	97.8	138.5	225.4	277.0	287.9
82.5°	62.5	114.1	203.7	258.0	268.9
85°	32.6	92.3	184.7	239.0	249.9
87.5°	13.6	76.0	165.7	220.0	230.8
90°	0.0	62.5	149.4	203.7	211.8
92.5°	0.0	54.3	135.8	187.4	195.5
95°	0.0	46.2	124.9	171.1	179.2
97.5°	0.0	43.5	111.3	157.5	165.7
100°	0.0	38.0	100.5	143.9	154.8
102.5°	0.0	35.3	92.3	130.4	141.2
105°	0.0	32.6	84.2	119.5	130.4
107.5°	0.0	29.9	78.8	111.3	119.5
110°	0.0	29.9	70.6	103.2	111.3
112.5°	2.7	27.2	65.2	92.3	100.5
115°	2.7	27.2	59.7	86.9	92.3
117.5°	2.7	27.2	57.0	78.8	84.2
120°	2.7	24.4	54.3	73.3	78.8
122.5°	2.7	24.4	51.6	67.9	70.6
125°	2.7	21.7	48.9	62.5	67.9
127.5°	2.7	21.7	46.2	59.7	62.5
130°	2.7	21.7	43.5	54.3	59.7
132.5°	2.7	19.0	40.7	51.6	54.3
135°	2.7	19.0	38.0	48.9	51.6
137.5°	2.7	16.3	35.3	46.2	48.9
140°	2.7	16.3	32.6	43.5	46.2
142.5°	2.7	13.6	29.9	40.7	43.5
145°	2.7	13.6	27.2	38.0	40.7
147.5°	2.7	13.6	24.4	35.3	38.0
150°	2.7	10.9	21.7	32.6	35.3
152.5°	2.7	10.9	19.0	29.9	32.6
155°	2.7	10.9	19.0	27.2	29.9
157.5°	2.7	8.1	16.3	21.7	27.2
160°	2.7	8.1	13.6	19.0	24.4
162.5°	2.7	8.1	13.6	16.3	19.0
165°	2.7	5.4	10.9	13.6	16.3
167.5°	2.7	5.4	8.1	10.9	13.6
170°	2.7	5.4	8.1	8.1	10.9
172.5°	2.7	5.4	5.4	5.4	5.4
175°	5.4	5.4	5.4	5.4	2.7
177.5°	5.4	5.4	5.4	2.7	2.7



TEST NUMBER: P566534

CATALOG NUMBER: 4SNX-51SL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)