

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: P566236

Luminaire Tested: **4SNX-31SL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566236
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-31SL-FDL-UNV-L940-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

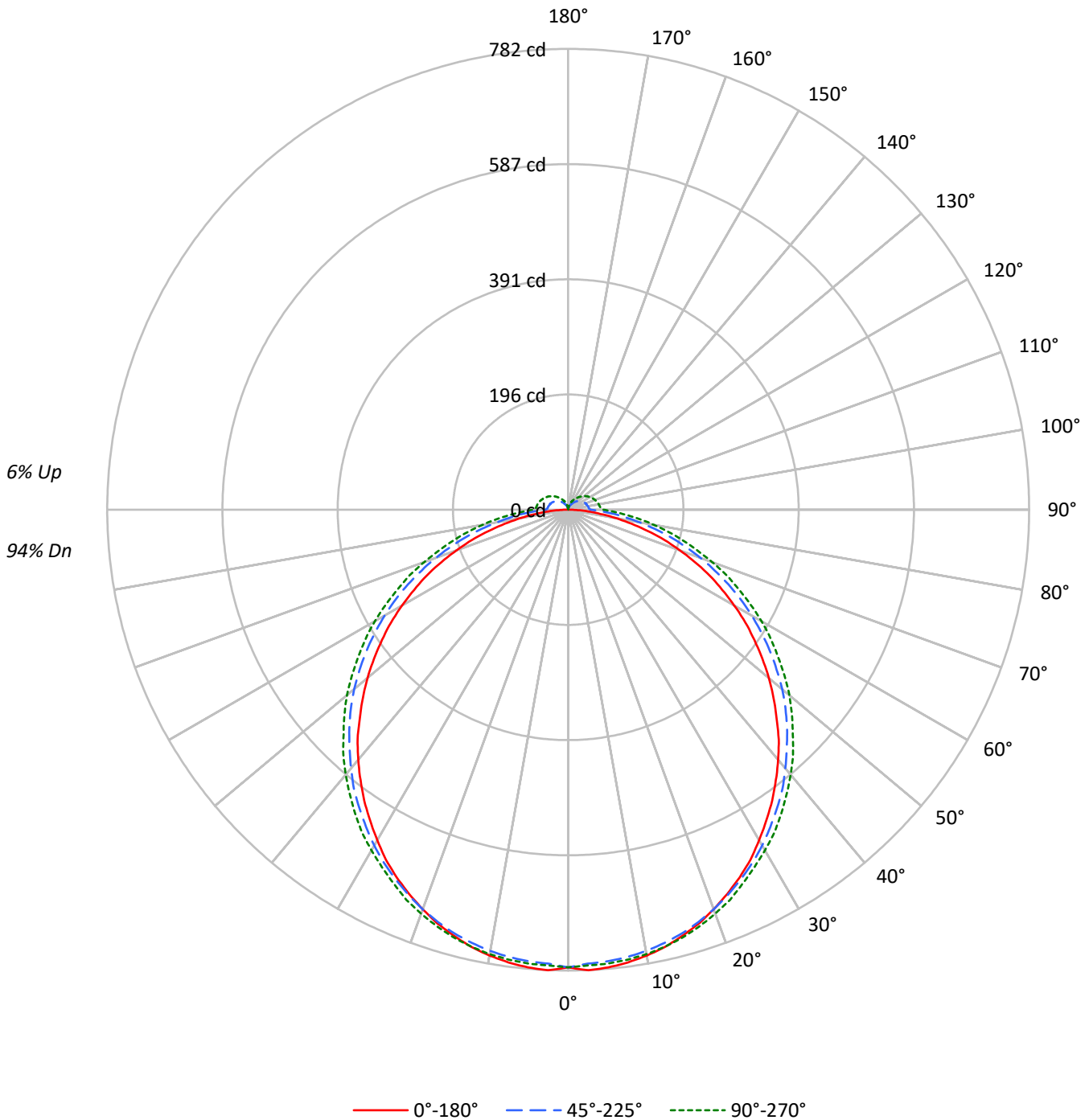
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.0 lumens
Efficiency: N/A
Efficacy: 126.6 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): 19.5
Input Voltage (V): NR
Input Current (A_{in}): 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: P566236
CATALOG NUMBER: 4SNX-31SL-FDL-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566236

CATALOG NUMBER: 4SNX-31SL-FDL-UNV-L940-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	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°	8359	8359	8359
5°	8417	8221	8233
10°	8382	8133	8130
15°	8320	8029	8014
20°	8235	7905	7877
25°	8135	7769	7715
30°	8002	7629	7567
35°	7868	7466	7411
40°	7720	7286	7236
45°	7533	7107	7031
50°	7352	6904	6844
55°	7128	6651	6585
60°	6877	6363	6330
65°	6609	6019	5978
70°	6150	5587	5613
75°	5601	5079	5177
80°	4782	4404	4694
85°	3763	3820	4124



TEST NUMBER: P566236

CATALOG NUMBER: 4SNX-31SL-FDL-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.0
10°-20°	211.4	8.6
20°-30°	320.3	13.0
30°-40°	386.7	15.7
40°-50°	403.8	16.4
50°-60°	370.9	15.0
60°-70°	293.3	11.9
70°-80°	185.6	7.5
80°-90°	79.8	3.2
90°-100°	35.1	1.4
100°-110°	31.4	1.3
110°-120°	26.5	1.1
120°-130°	20.7	0.8
130°-140°	14.3	0.6
140°-150°	8.6	0.3
150°-160°	4.2	0.2
160°-170°	1.5	0.1
170°-180°	0.2	0.0
0°-30°	605.3	24.5
0°-40°	992.0	40.2
0°-60°	1766.6	71.6
0°-90°	2325.4	94.2
90°-120°	93.1	3.8
90°-150°	136.7	5.5
90°-180°	143.0	5.8
0°-180°	2468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	780	778	769	776	773	74
15°	749	749	745	753	751	211
25°	688	691	692	702	700	317
35°	603	610	618	628	630	377
45°	500	512	525	535	539	386
55°	386	401	418	431	434	345
65°	265	280	300	314	319	261
75°	140	156	179	194	202	148
85°	34	52	75	91	97	38
90°	2	19	38	54	59	3
95°	0	16	35	49	54	0
105°	0	15	33	46	51	0
115°	0	13	30	42	46	0
125°	1	11	25	36	40	1
135°	1	9	20	28	32	1
145°	1	7	14	21	24	1
155°	1	4	9	14	16	0
165°	1	3	5	7	9	0
175°	1	2	2	2	1	0
180°	1	1	1	1	1	



TEST NUMBER: P566236

CATALOG NUMBER: 4SNX-31SL-FDL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.6	776.6	776.6	776.6	776.6
2.5°	782.3	779.7	771.0	777.1	774.0
5°	779.7	777.5	769.2	775.8	773.1
7.5°	774.9	773.1	765.7	772.7	770.1
10°	768.3	767.0	760.5	767.5	765.7
12.5°	760.0	759.6	753.0	760.9	759.6
15°	748.7	748.7	744.7	752.6	751.3
17.5°	736.4	736.9	733.8	742.1	741.2
20°	721.6	723.8	721.6	730.3	729.4
22.5°	705.4	708.5	707.6	716.3	716.8
25°	688.3	691.4	692.3	701.5	700.1
27.5°	669.6	674.4	676.1	684.4	684.0
30°	647.7	654.3	658.2	665.2	667.4
32.5°	625.4	633.3	638.1	647.7	650.3
35°	603.1	610.1	618.0	627.6	629.8
37.5°	578.7	586.5	597.0	606.2	608.8
40°	554.2	562.9	573.0	583.0	587.0
42.5°	528.8	538.0	548.9	560.7	564.7
45°	500.0	512.2	525.3	535.4	538.9
47.5°	472.4	486.0	500.0	510.9	514.8
50°	444.5	458.9	473.8	483.8	489.9
52.5°	415.2	430.9	445.8	458.5	462.4
55°	385.5	401.2	417.8	431.4	434.4
57.5°	356.6	371.9	388.5	401.2	407.3
60°	325.2	341.8	359.7	372.4	378.9
62.5°	294.6	310.7	330.0	343.5	348.8
65°	265.3	280.1	299.8	313.8	318.6
67.5°	232.9	250.0	268.8	285.0	291.1
70°	201.0	217.2	238.6	253.9	260.0
72.5°	171.3	187.1	208.5	223.8	229.4
75°	139.9	156.5	179.2	194.5	201.9
77.5°	109.7	128.1	149.9	166.5	174.8
80°	81.7	97.9	121.5	139.9	147.3
82.5°	55.5	73.0	97.5	114.5	122.8
85°	34.1	52.4	75.2	91.3	97.0
87.5°	16.2	33.7	54.6	70.4	77.4
90°	2.2	18.8	38.5	53.8	59.4
92.5°	0.4	16.2	35.4	49.8	55.1
95°	0.4	16.2	35.0	48.9	54.2
97.5°	0.4	15.7	34.5	48.5	53.3
100°	0.4	15.3	34.1	47.6	52.9
102.5°	0.4	15.3	33.2	46.8	51.6
105°	0.4	14.9	32.8	45.9	50.7
107.5°	0.4	14.4	31.9	45.0	49.8
110°	0.4	13.5	31.5	43.7	48.5



TEST NUMBER: P566236

CATALOG NUMBER: 4SNX-31SL-FDL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	13.1	30.6	42.8	47.2
115°	0.4	12.7	29.7	41.5	45.9
117.5°	0.4	12.2	28.4	40.2	44.6
120°	0.9	12.2	27.5	38.9	42.8
122.5°	0.9	11.8	26.2	37.1	41.1
125°	0.9	11.4	24.9	35.8	39.8
127.5°	0.9	10.9	23.6	34.1	37.6
130°	0.9	10.1	22.7	32.3	35.8
132.5°	0.9	9.6	21.4	30.2	33.7
135°	0.9	8.7	20.1	28.4	31.9
137.5°	0.9	8.3	18.8	26.7	29.7
140°	0.9	7.9	17.0	24.9	28.0
142.5°	0.9	7.0	15.7	23.2	25.8
145°	0.9	6.6	14.0	21.4	23.6
147.5°	0.9	5.7	12.7	19.7	21.9
150°	0.9	5.2	11.4	17.9	20.1
152.5°	0.9	4.8	10.1	15.7	17.9
155°	0.9	4.4	9.2	13.5	16.2
157.5°	0.9	3.9	7.9	11.8	14.4
160°	1.3	3.5	7.0	10.1	12.2
162.5°	1.3	3.1	5.7	8.3	10.9
165°	1.3	3.1	4.8	6.6	9.2
167.5°	1.3	2.6	3.9	5.2	7.4
170°	1.3	2.2	3.5	3.9	5.7
172.5°	1.3	1.7	2.6	2.6	3.1
175°	1.3	1.7	2.2	2.2	1.3
177.5°	1.3	1.3	1.3	1.3	0.9
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)