

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: P566237

Luminaire Tested: **4SNX-31SL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566237
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-L950-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

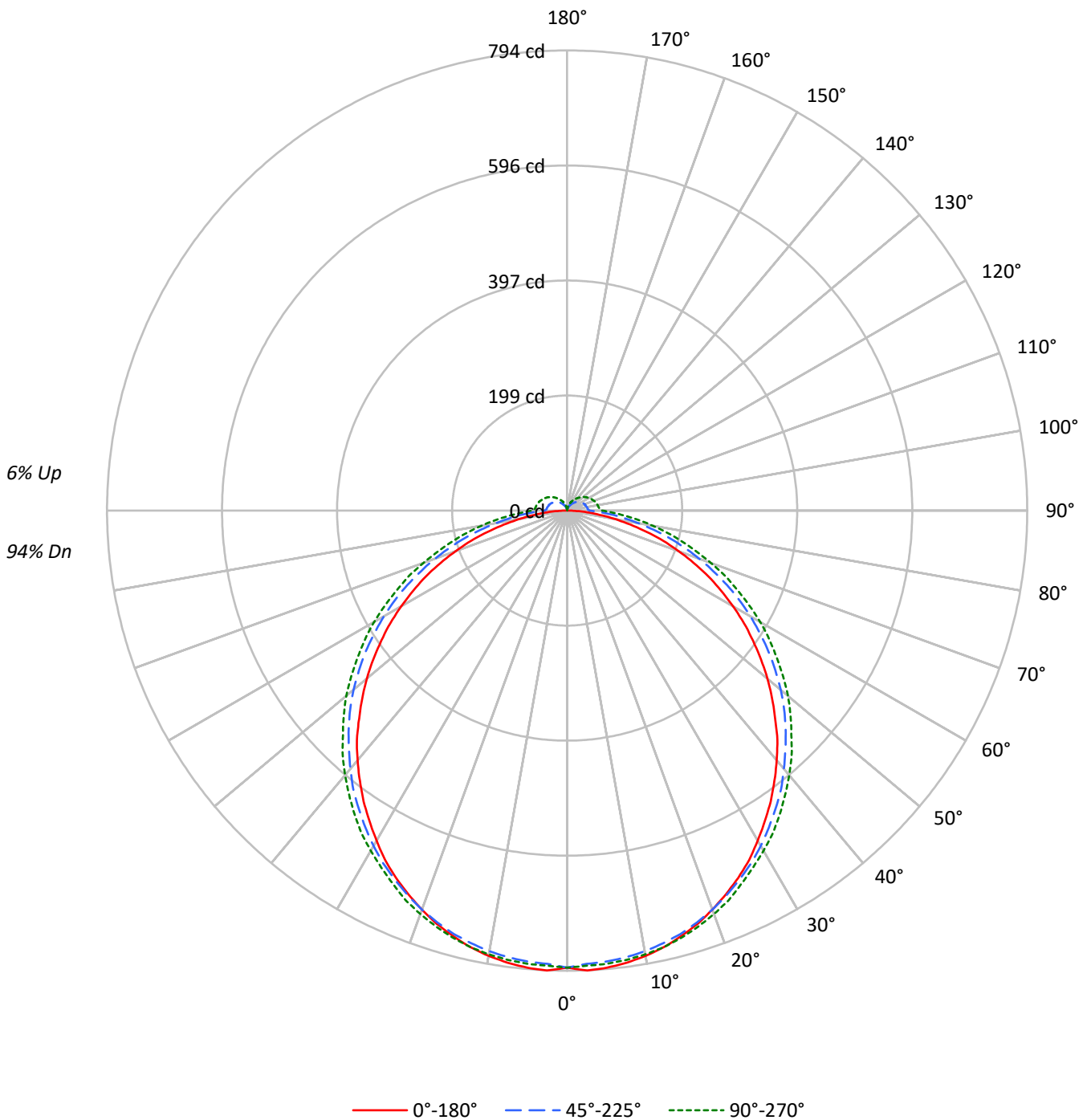
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2506.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

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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	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°	8488	8488	8488
5°	8547	8347	8360
10°	8512	8258	8255
15°	8448	8153	8138
20°	8361	8027	7999
25°	8260	7888	7834
30°	8126	7746	7683
35°	7989	7581	7525
40°	7838	7398	7347
45°	7649	7216	7140
50°	7465	7010	6950
55°	7237	6755	6686
60°	6983	6461	6428
65°	6712	6112	6070
70°	6245	5674	5699
75°	5685	5156	5256
80°	4858	4473	4767
85°	3819	3876	4188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.0
10°-20°	214.6	8.6
20°-30°	325.2	13.0
30°-40°	392.6	15.7
40°-50°	410.0	16.4
50°-60°	376.7	15.0
60°-70°	297.8	11.9
70°-80°	188.5	7.5
80°-90°	81.0	3.2
90°-100°	35.7	1.4
100°-110°	31.9	1.3
110°-120°	27.0	1.1
120°-130°	21.0	0.8
130°-140°	14.6	0.6
140°-150°	8.7	0.3
150°-160°	4.3	0.2
160°-170°	1.5	0.1
170°-180°	0.2	0.0
0°-30°	614.6	24.5
0°-40°	1007.2	40.2
0°-60°	1793.9	71.6
0°-90°	2361.2	94.2
90°-120°	94.5	3.8
90°-150°	138.8	5.5
90°-180°	145.0	5.8
0°-180°	2506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	792	790	781	788	785	75
15°	760	760	756	764	763	214
25°	699	702	703	712	711	322
35°	612	620	628	637	640	383
45°	508	520	533	544	547	392
55°	391	407	424	438	441	350
65°	269	284	304	319	324	265
75°	142	159	182	198	205	151
85°	35	53	76	93	98	38
90°	2	19	39	55	60	3
95°	0	16	36	50	55	0
105°	0	15	33	47	52	0
115°	0	13	30	42	47	0
125°	1	12	25	36	40	1
135°	1	9	20	29	32	1
145°	1	7	14	22	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.6	788.6	788.6	788.6	788.6
2.5°	794.4	791.7	782.8	789.0	785.9
5°	791.7	789.5	781.0	787.7	785.0
7.5°	786.8	785.0	777.5	784.6	781.9
10°	780.2	778.8	772.2	779.3	777.5
12.5°	771.7	771.3	764.6	772.6	771.3
15°	760.2	760.2	756.2	764.2	762.9
17.5°	747.8	748.2	745.1	753.5	752.6
20°	732.7	734.9	732.7	741.6	740.7
22.5°	716.3	719.4	718.5	727.3	727.8
25°	698.9	702.1	702.9	712.3	710.9
27.5°	679.9	684.7	686.5	695.0	694.5
30°	657.7	664.3	668.3	675.4	677.6
32.5°	635.0	643.0	647.9	657.7	660.3
35°	612.4	619.5	627.5	637.3	639.5
37.5°	587.6	595.5	606.2	615.5	618.2
40°	562.7	571.6	581.8	592.0	596.0
42.5°	537.0	546.3	557.4	569.4	573.4
45°	507.7	520.1	533.4	543.6	547.2
47.5°	479.7	493.5	507.7	518.8	522.8
50°	451.3	466.0	481.1	491.3	497.5
52.5°	421.6	437.6	452.7	465.5	469.5
55°	391.4	407.4	424.3	438.0	441.1
57.5°	362.1	377.7	394.5	407.4	413.6
60°	330.2	347.0	365.2	378.1	384.8
62.5°	299.1	315.5	335.1	348.8	354.1
65°	269.4	284.5	304.4	318.6	323.5
67.5°	236.5	253.8	272.9	289.3	295.6
70°	204.1	220.6	242.3	257.8	264.0
72.5°	174.0	189.9	211.7	227.2	233.0
75°	142.0	158.9	181.9	197.5	205.0
77.5°	111.4	130.0	152.2	169.1	177.5
80°	83.0	99.4	123.4	142.0	149.6
82.5°	56.4	74.1	99.0	116.3	124.7
85°	34.6	53.3	76.3	92.7	98.5
87.5°	16.4	34.2	55.5	71.4	78.5
90°	2.2	19.1	39.1	54.6	60.4
92.5°	0.4	16.4	35.9	50.6	55.9
95°	0.4	16.4	35.5	49.7	55.0
97.5°	0.4	16.0	35.1	49.3	54.1
100°	0.4	15.5	34.6	48.4	53.7
102.5°	0.4	15.5	33.7	47.5	52.4
105°	0.4	15.1	33.3	46.6	51.5
107.5°	0.4	14.6	32.4	45.7	50.6
110°	0.4	13.8	32.0	44.4	49.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	13.3	31.1	43.5	47.9
115°	0.4	12.9	30.2	42.2	46.6
117.5°	0.4	12.4	28.8	40.8	45.3
120°	0.9	12.4	28.0	39.5	43.5
122.5°	0.9	12.0	26.6	37.7	41.7
125°	0.9	11.5	25.3	36.4	40.4
127.5°	0.9	11.1	24.0	34.6	38.2
130°	0.9	10.2	23.1	32.8	36.4
132.5°	0.9	9.8	21.7	30.6	34.2
135°	0.9	8.9	20.4	28.8	32.4
137.5°	0.9	8.4	19.1	27.1	30.2
140°	0.9	8.0	17.3	25.3	28.4
142.5°	0.9	7.1	16.0	23.5	26.2
145°	0.9	6.7	14.2	21.7	24.0
147.5°	0.9	5.8	12.9	20.0	22.2
150°	0.9	5.3	11.5	18.2	20.4
152.5°	0.9	4.9	10.2	16.0	18.2
155°	0.9	4.4	9.3	13.8	16.4
157.5°	0.9	4.0	8.0	12.0	14.6
160°	1.3	3.6	7.1	10.2	12.4
162.5°	1.3	3.1	5.8	8.4	11.1
165°	1.3	3.1	4.9	6.7	9.3
167.5°	1.3	2.7	4.0	5.3	7.5
170°	1.3	2.2	3.6	4.0	5.8
172.5°	1.3	1.8	2.7	2.7	3.1
175°	1.3	1.8	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)