

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: P566092

Luminaire Tested: **4SNX-20SL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566092
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-20SL-FDL-UNV-L940-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

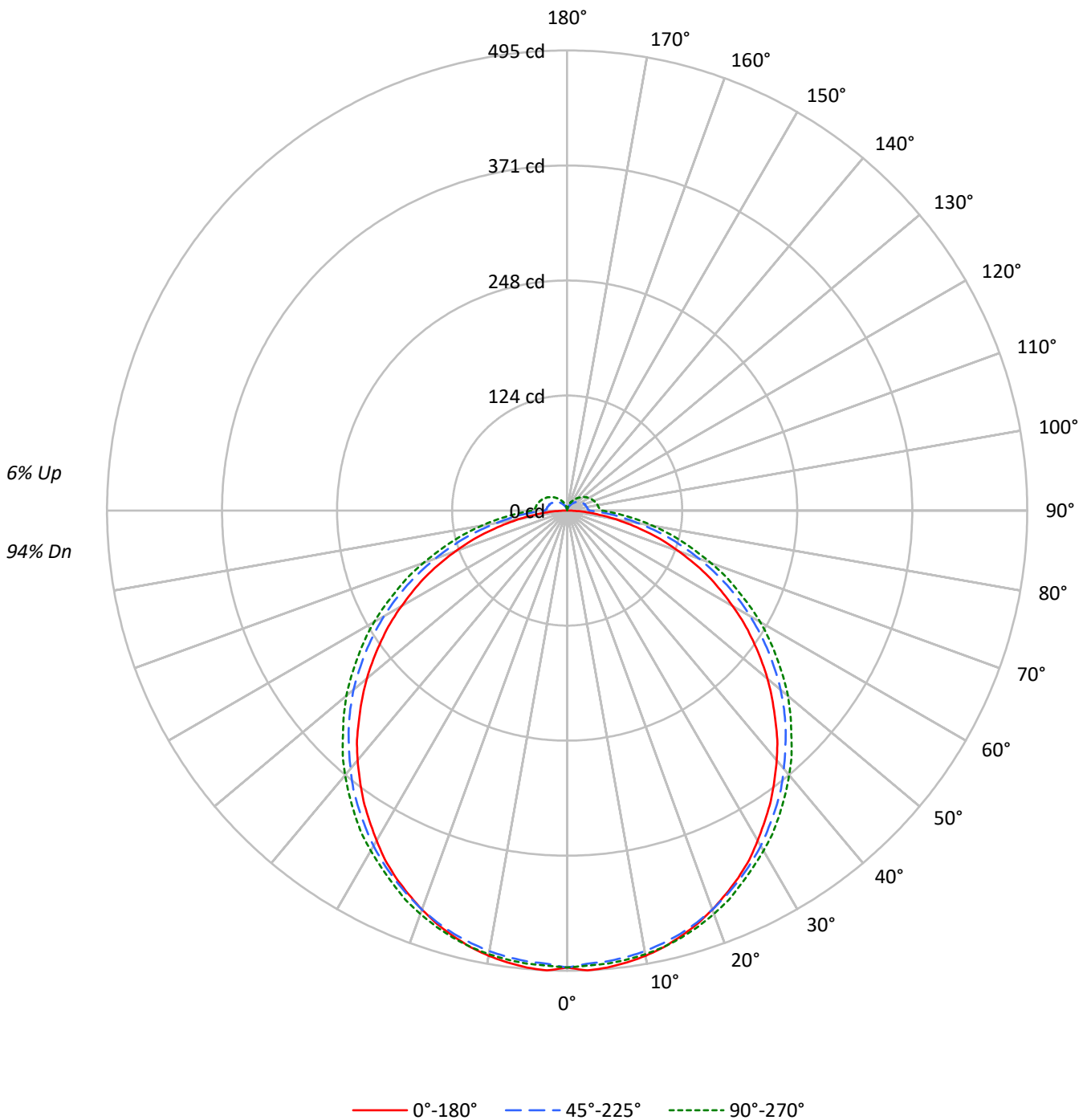
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1562.0 lumens
Efficiency: N/A
Efficacy: 129.1 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): 12.1
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	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°	5290	5290	5290
5°	5327	5203	5211
10°	5305	5147	5145
15°	5265	5081	5072
20°	5212	5003	4986
25°	5150	4916	4883
30°	5064	4829	4789
35°	4979	4725	4690
40°	4885	4611	4580
45°	4767	4498	4451
50°	4653	4368	4332
55°	4512	4209	4167
60°	4352	4026	4006
65°	4183	3811	3783
70°	3892	3536	3553
75°	3543	3214	3277
80°	3026	2787	2970
85°	2384	2418	2610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	3.0
10°-20°	133.8	8.6
20°-30°	202.7	13.0
30°-40°	244.7	15.7
40°-50°	255.5	16.4
50°-60°	234.8	15.0
60°-70°	185.6	11.9
70°-80°	117.5	7.5
80°-90°	50.5	3.2
90°-100°	22.2	1.4
100°-110°	19.9	1.3
110°-120°	16.8	1.1
120°-130°	13.1	0.8
130°-140°	9.1	0.6
140°-150°	5.4	0.3
150°-160°	2.7	0.2
160°-170°	0.9	0.1
170°-180°	0.1	0.0
0°-30°	383.1	24.5
0°-40°	627.8	40.2
0°-60°	1118.1	71.6
0°-90°	1471.7	94.2
90°-120°	58.9	3.8
90°-150°	86.6	5.5
90°-180°	90.0	5.8
0°-180°	1562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	494	492	487	491	489	47
15°	474	474	471	476	476	134
25°	436	438	438	444	443	201
35°	382	386	391	397	399	239
45°	316	324	332	339	341	244
55°	244	254	264	273	275	218
65°	168	177	190	199	202	165
75°	88	99	113	123	128	94
85°	22	33	48	58	61	24
90°	1	12	24	34	38	2
95°	0	10	22	31	34	0
105°	0	9	21	29	32	0
115°	0	8	19	26	29	0
125°	1	7	16	23	25	1
135°	1	6	13	18	20	0
145°	1	4	9	14	15	0
155°	1	3	6	9	10	0
165°	1	2	3	4	6	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	491.5	491.5	491.5	491.5	491.5
2.5°	495.1	493.5	487.9	491.8	489.9
5°	493.5	492.1	486.8	491.0	489.3
7.5°	490.4	489.3	484.6	489.0	487.4
10°	486.3	485.4	481.3	485.7	484.6
12.5°	481.0	480.7	476.6	481.6	480.7
15°	473.8	473.8	471.3	476.3	475.5
17.5°	466.1	466.4	464.4	469.7	469.1
20°	456.7	458.1	456.7	462.2	461.7
22.5°	446.4	448.4	447.8	453.4	453.6
25°	435.7	437.6	438.1	444.0	443.1
27.5°	423.8	426.8	427.9	433.2	432.9
30°	409.9	414.1	416.6	421.0	422.4
32.5°	395.8	400.8	403.8	409.9	411.6
35°	381.7	386.1	391.1	397.2	398.6
37.5°	366.2	371.2	377.8	383.7	385.3
40°	350.7	356.3	362.6	369.0	371.5
42.5°	334.7	340.5	347.4	354.9	357.4
45°	316.4	324.2	332.5	338.8	341.1
47.5°	299.0	307.6	316.4	323.4	325.8
50°	281.3	290.4	299.8	306.2	310.1
52.5°	262.8	272.7	282.1	290.2	292.7
55°	244.0	253.9	264.4	273.0	274.9
57.5°	225.7	235.4	245.9	253.9	257.8
60°	205.8	216.3	227.6	235.7	239.8
62.5°	186.4	196.7	208.8	217.4	220.7
65°	167.9	177.3	189.8	198.6	201.6
67.5°	147.4	158.2	170.1	180.3	184.2
70°	127.2	137.5	151.0	160.7	164.6
72.5°	108.4	118.4	131.9	141.6	145.2
75°	88.5	99.0	113.4	123.1	127.8
77.5°	69.4	81.0	94.9	105.4	110.6
80°	51.7	62.0	76.9	88.5	93.2
82.5°	35.1	46.2	61.7	72.5	77.7
85°	21.6	33.2	47.6	57.8	61.4
87.5°	10.2	21.3	34.6	44.5	49.0
90°	1.4	11.9	24.3	34.0	37.6
92.5°	0.3	10.2	22.4	31.5	34.9
95°	0.3	10.2	22.1	31.0	34.3
97.5°	0.3	10.0	21.9	30.7	33.7
100°	0.3	9.7	21.6	30.2	33.5
102.5°	0.3	9.7	21.0	29.6	32.6
105°	0.3	9.4	20.7	29.0	32.1
107.5°	0.3	9.1	20.2	28.5	31.5
110°	0.3	8.6	19.9	27.7	30.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	8.3	19.4	27.1	29.9
115°	0.3	8.0	18.8	26.3	29.0
117.5°	0.3	7.7	18.0	25.4	28.2
120°	0.6	7.7	17.4	24.6	27.1
122.5°	0.6	7.5	16.6	23.5	26.0
125°	0.6	7.2	15.8	22.7	25.2
127.5°	0.6	6.9	14.9	21.6	23.8
130°	0.6	6.4	14.4	20.5	22.7
132.5°	0.6	6.1	13.6	19.1	21.3
135°	0.6	5.5	12.7	18.0	20.2
137.5°	0.6	5.3	11.9	16.9	18.8
140°	0.6	5.0	10.8	15.8	17.7
142.5°	0.6	4.4	10.0	14.7	16.3
145°	0.6	4.1	8.9	13.6	14.9
147.5°	0.6	3.6	8.0	12.4	13.8
150°	0.6	3.3	7.2	11.3	12.7
152.5°	0.6	3.0	6.4	10.0	11.3
155°	0.6	2.8	5.8	8.6	10.2
157.5°	0.6	2.5	5.0	7.5	9.1
160°	0.8	2.2	4.4	6.4	7.7
162.5°	0.8	1.9	3.6	5.3	6.9
165°	0.8	1.9	3.0	4.1	5.8
167.5°	0.8	1.7	2.5	3.3	4.7
170°	0.8	1.4	2.2	2.5	3.6
172.5°	0.8	1.1	1.7	1.7	1.9
175°	0.8	1.1	1.4	1.4	0.8
177.5°	0.8	0.8	0.8	0.8	0.6
180°	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)