

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: P566093

Luminaire Tested: **4SNX-20SL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566093  
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-L950-CD  
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

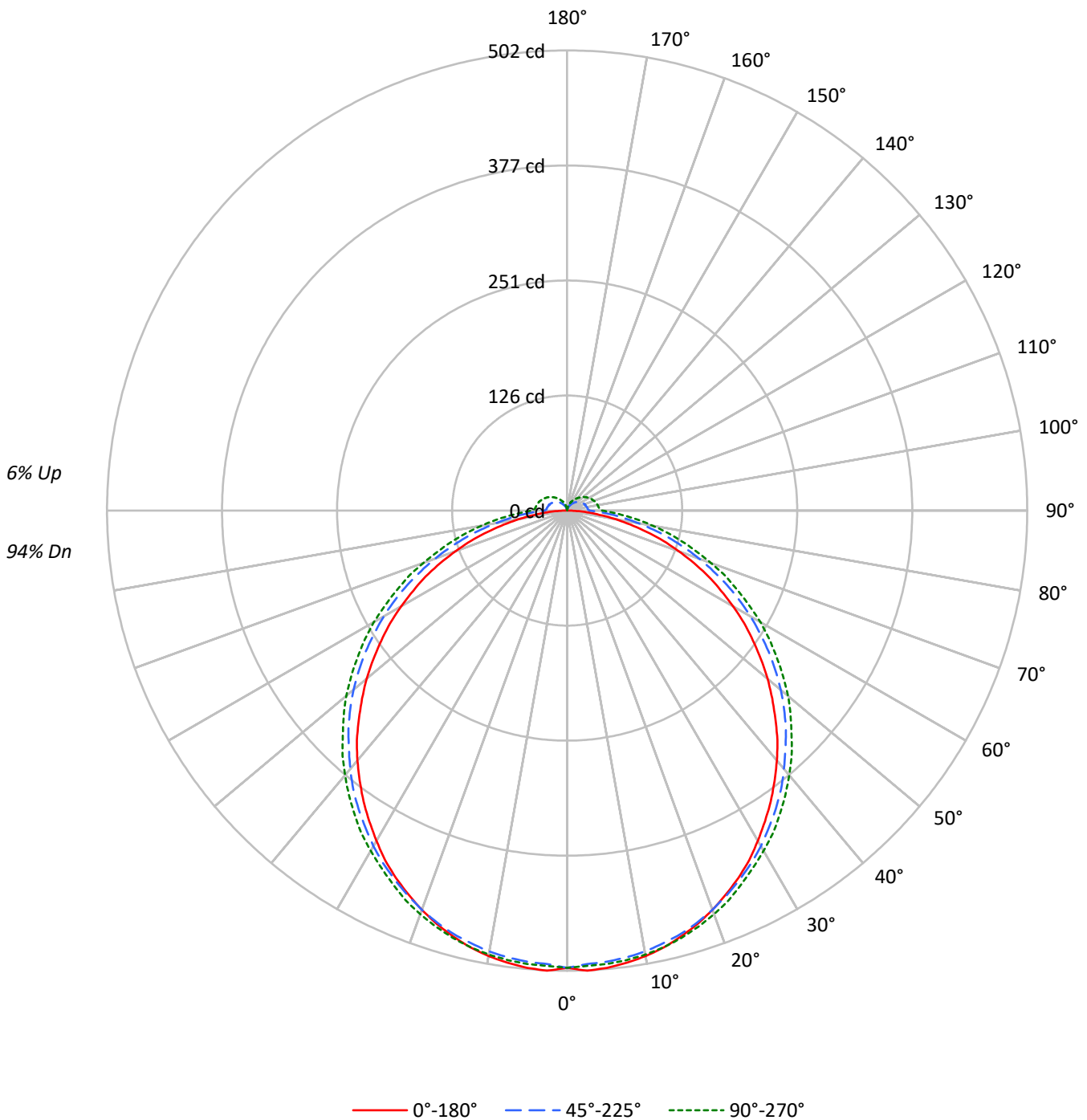
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1585.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 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<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

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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°	5369	5369	5369
5°	5405	5280	5288
10°	5383	5223	5222
15°	5343	5157	5147
20°	5288	5077	5060
25°	5225	4989	4956
30°	5140	4900	4860
35°	5052	4795	4760
40°	4958	4679	4647
45°	4838	4565	4516
50°	4722	4434	4395
55°	4578	4271	4229
60°	4415	4087	4066
65°	4245	3865	3839
70°	3950	3590	3605
75°	3595	3262	3326
80°	3073	2827	3015
85°	2417	2454	2649



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.3	3.0
10°-20°	135.7	8.6
20°-30°	205.7	13.0
30°-40°	248.3	15.7
40°-50°	259.3	16.4
50°-60°	238.2	15.0
60°-70°	188.4	11.9
70°-80°	119.2	7.5
80°-90°	51.3	3.2
90°-100°	22.6	1.4
100°-110°	20.2	1.3
110°-120°	17.1	1.1
120°-130°	13.3	0.8
130°-140°	9.2	0.6
140°-150°	5.5	0.3
150°-160°	2.7	0.2
160°-170°	0.9	0.1
170°-180°	0.1	0.0
0°-30°	388.7	24.5
0°-40°	637.1	40.2
0°-60°	1134.6	71.6
0°-90°	1493.4	94.2
90°-120°	59.8	3.8
90°-150°	87.8	5.5
90°-180°	92.0	5.8
0°-180°	1585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	499	499	499	499	499	
5°	501	499	494	498	496	48
15°	481	481	478	483	482	136
25°	442	444	445	450	450	204
35°	387	392	397	403	404	242
45°	321	329	337	344	346	248
55°	248	258	268	277	279	221
65°	170	180	192	202	205	168
75°	90	100	115	125	130	95
85°	22	34	48	59	62	24
90°	1	12	25	34	38	2
95°	0	10	22	31	35	0
105°	0	10	21	30	33	0
115°	0	8	19	27	30	0
125°	1	7	16	23	26	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°	498.8	498.8	498.8	498.8	498.8
2.5°	502.4	500.7	495.1	499.1	497.1
5°	500.7	499.3	494.0	498.2	496.5
7.5°	497.6	496.5	491.8	496.2	494.6
10°	493.4	492.6	488.4	492.9	491.8
12.5°	488.1	487.8	483.6	488.7	487.8
15°	480.8	480.8	478.3	483.3	482.5
17.5°	472.9	473.2	471.3	476.6	476.0
20°	463.4	464.8	463.4	469.0	468.5
22.5°	453.0	455.0	454.4	460.0	460.3
25°	442.1	444.0	444.6	450.5	449.7
27.5°	430.0	433.1	434.2	439.5	439.3
30°	416.0	420.2	422.7	427.2	428.6
32.5°	401.7	406.7	409.8	416.0	417.7
35°	387.3	391.8	396.9	403.1	404.5
37.5°	371.6	376.7	383.4	389.3	391.0
40°	355.9	361.5	368.0	374.4	377.0
42.5°	339.6	345.5	352.5	360.1	362.6
45°	321.1	329.0	337.4	343.8	346.1
47.5°	303.4	312.1	321.1	328.1	330.6
50°	285.5	294.7	304.3	310.7	314.6
52.5°	266.6	276.8	286.3	294.4	297.0
55°	247.6	257.7	268.3	277.0	279.0
57.5°	229.0	238.9	249.5	257.7	261.6
60°	208.8	219.5	231.0	239.1	243.4
62.5°	189.2	199.6	211.9	220.6	224.0
65°	170.4	179.9	192.5	201.5	204.6
67.5°	149.6	160.5	172.6	183.0	186.9
70°	129.1	139.5	153.3	163.1	167.0
72.5°	110.0	120.1	133.9	143.7	147.4
75°	89.8	100.5	115.1	124.9	129.7
77.5°	70.5	82.2	96.3	106.9	112.3
80°	52.5	62.9	78.0	89.8	94.6
82.5°	35.6	46.9	62.6	73.5	78.9
85°	21.9	33.7	48.3	58.7	62.3
87.5°	10.4	21.6	35.1	45.2	49.7
90°	1.4	12.1	24.7	34.5	38.2
92.5°	0.3	10.4	22.7	32.0	35.4
95°	0.3	10.4	22.5	31.4	34.8
97.5°	0.3	10.1	22.2	31.2	34.2
100°	0.3	9.8	21.9	30.6	34.0
102.5°	0.3	9.8	21.3	30.0	33.1
105°	0.3	9.5	21.1	29.5	32.6
107.5°	0.3	9.3	20.5	28.9	32.0
110°	0.3	8.7	20.2	28.1	31.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	8.4	19.6	27.5	30.3
115°	0.3	8.1	19.1	26.7	29.5
117.5°	0.3	7.9	18.2	25.8	28.6
120°	0.6	7.9	17.7	25.0	27.5
122.5°	0.6	7.6	16.8	23.9	26.4
125°	0.6	7.3	16.0	23.0	25.5
127.5°	0.6	7.0	15.2	21.9	24.1
130°	0.6	6.5	14.6	20.8	23.0
132.5°	0.6	6.2	13.8	19.4	21.6
135°	0.6	5.6	12.9	18.2	20.5
137.5°	0.6	5.3	12.1	17.1	19.1
140°	0.6	5.1	10.9	16.0	18.0
142.5°	0.6	4.5	10.1	14.9	16.6
145°	0.6	4.2	9.0	13.8	15.2
147.5°	0.6	3.6	8.1	12.6	14.0
150°	0.6	3.4	7.3	11.5	12.9
152.5°	0.6	3.1	6.5	10.1	11.5
155°	0.6	2.8	5.9	8.7	10.4
157.5°	0.6	2.5	5.1	7.6	9.3
160°	0.8	2.2	4.5	6.5	7.9
162.5°	0.8	2.0	3.6	5.3	7.0
165°	0.8	2.0	3.1	4.2	5.9
167.5°	0.8	1.7	2.5	3.4	4.8
170°	0.8	1.4	2.2	2.5	3.6
172.5°	0.8	1.1	1.7	1.7	2.0
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)