

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: P566089

Luminaire Tested: **4SNX-20SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566089
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-L850-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

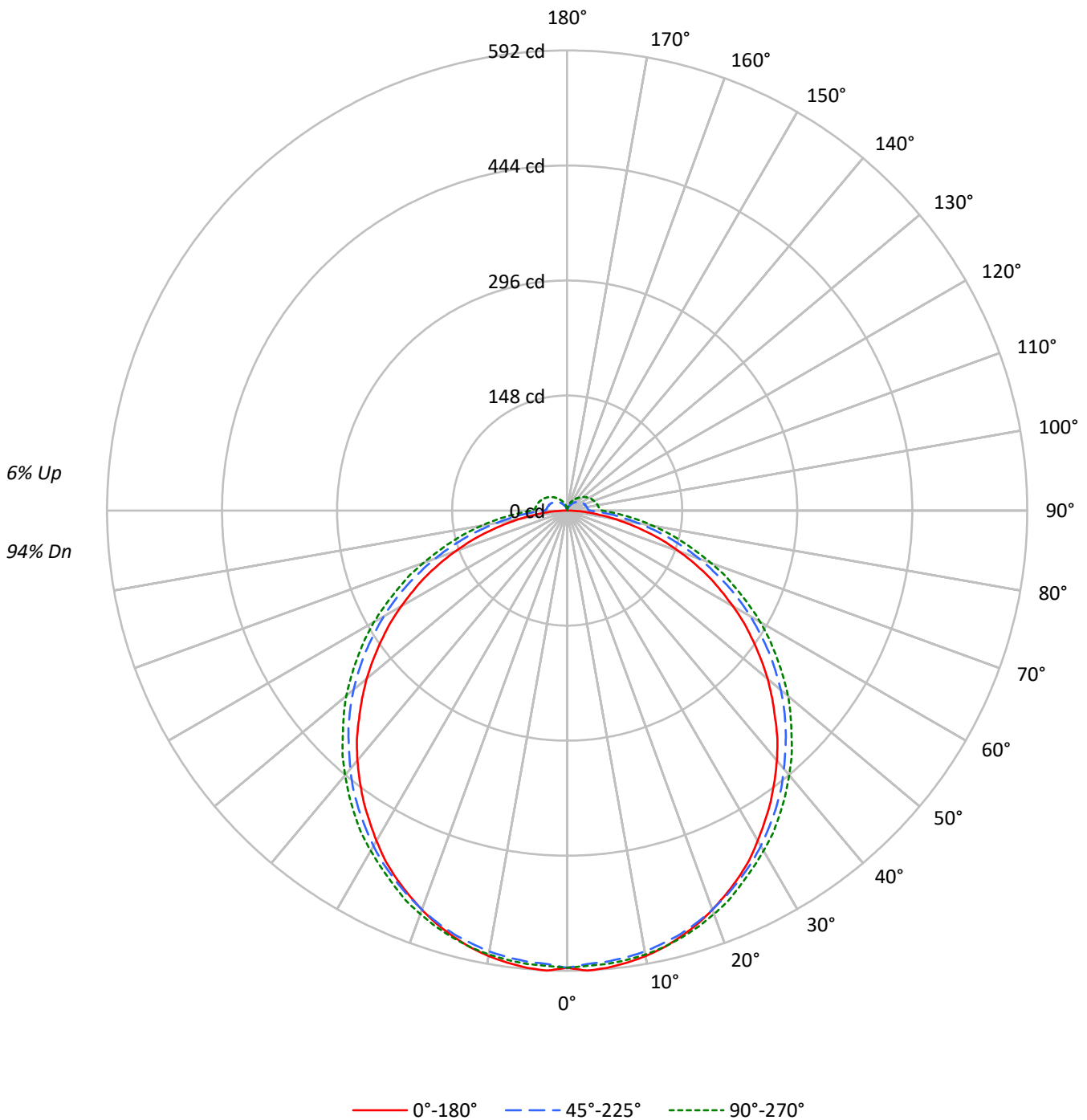
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1869.0 lumens
Efficiency: N/A
Efficacy: 154.5 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): 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°	6330	6330	6330
5°	6375	6226	6235
10°	6348	6159	6157
15°	6301	6081	6069
20°	6235	5986	5966
25°	6161	5883	5843
30°	6060	5777	5730
35°	5958	5654	5612
40°	5846	5517	5479
45°	5704	5382	5325
50°	5567	5228	5183
55°	5398	5037	4987
60°	5206	4819	4794
65°	5005	4558	4528
70°	4657	4231	4250
75°	4239	3846	3920
80°	3623	3335	3553
85°	2847	2890	3125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	3.0
10°-20°	160.1	8.6
20°-30°	242.6	13.0
30°-40°	292.8	15.7
40°-50°	305.8	16.4
50°-60°	280.9	15.0
60°-70°	222.1	11.9
70°-80°	140.6	7.5
80°-90°	60.4	3.2
90°-100°	26.6	1.4
100°-110°	23.8	1.3
110°-120°	20.1	1.1
120°-130°	15.7	0.8
130°-140°	10.9	0.6
140°-150°	6.5	0.3
150°-160°	3.2	0.2
160°-170°	1.1	0.1
170°-180°	0.2	0.0
0°-30°	458.4	24.5
0°-40°	751.2	40.2
0°-60°	1337.9	71.6
0°-90°	1761.0	94.2
90°-120°	70.5	3.8
90°-150°	103.5	5.5
90°-180°	108.0	5.8
0°-180°	1869.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	590	589	582	588	586	56
15°	567	567	564	570	569	160
25°	521	524	524	531	530	240
35°	457	462	468	475	477	286
45°	379	388	398	405	408	292
55°	292	304	316	327	329	261
65°	201	212	227	238	241	198
75°	106	118	136	147	153	112
85°	26	40	57	69	74	29
90°	2	14	29	41	45	2
95°	0	12	26	37	41	0
105°	0	11	25	35	38	0
115°	0	10	22	31	35	0
125°	1	9	19	27	30	1
135°	1	7	15	22	24	1
145°	1	5	11	16	18	0
155°	1	3	7	10	12	0
165°	1	2	4	5	7	0
175°	1	1	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°	588.1	588.1	588.1	588.1	588.1
2.5°	592.4	590.5	583.8	588.5	586.2
5°	590.5	588.8	582.5	587.5	585.5
7.5°	586.8	585.5	579.9	585.2	583.2
10°	581.9	580.9	575.9	581.2	579.9
12.5°	575.6	575.2	570.3	576.2	575.2
15°	567.0	567.0	564.0	569.9	568.9
17.5°	557.7	558.0	555.7	562.0	561.3
20°	546.4	548.1	546.4	553.1	552.4
22.5°	534.2	536.5	535.8	542.5	542.8
25°	521.3	523.6	524.3	531.2	530.2
27.5°	507.1	510.7	512.0	518.3	518.0
30°	490.5	495.5	498.4	503.7	505.4
32.5°	473.6	479.6	483.2	490.5	492.5
35°	456.7	462.0	468.0	475.3	476.9
37.5°	438.2	444.2	452.1	459.1	461.0
40°	419.7	426.3	433.9	441.5	444.5
42.5°	400.5	407.4	415.7	424.6	427.6
45°	378.6	387.9	397.8	405.4	408.1
47.5°	357.8	368.0	378.6	386.9	389.9
50°	336.6	347.5	358.8	366.4	371.0
52.5°	314.4	326.3	337.6	347.2	350.2
55°	291.9	303.8	316.4	326.7	329.0
57.5°	270.1	281.7	294.2	303.8	308.5
60°	246.2	258.8	272.4	282.0	287.0
62.5°	223.1	235.3	249.9	260.1	264.1
65°	200.9	212.2	227.0	237.6	241.3
67.5°	176.4	189.3	203.5	215.8	220.4
70°	152.2	164.5	180.7	192.3	196.9
72.5°	129.7	141.7	157.9	169.5	173.8
75°	105.9	118.5	135.7	147.3	152.9
77.5°	83.1	97.0	113.5	126.1	132.4
80°	61.9	74.1	92.0	105.9	111.5
82.5°	42.0	55.3	73.8	86.7	93.0
85°	25.8	39.7	56.9	69.2	73.5
87.5°	12.2	25.5	41.4	53.3	58.6
90°	1.7	14.2	29.1	40.7	45.0
92.5°	0.3	12.2	26.8	37.7	41.7
95°	0.3	12.2	26.5	37.1	41.0
97.5°	0.3	11.9	26.1	36.7	40.4
100°	0.3	11.6	25.8	36.1	40.0
102.5°	0.3	11.6	25.2	35.4	39.1
105°	0.3	11.3	24.8	34.8	38.4
107.5°	0.3	10.9	24.2	34.1	37.7
110°	0.3	10.3	23.8	33.1	36.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	9.9	23.2	32.4	35.7
115°	0.3	9.6	22.5	31.4	34.8
117.5°	0.3	9.3	21.5	30.4	33.8
120°	0.7	9.3	20.9	29.5	32.4
122.5°	0.7	8.9	19.9	28.1	31.1
125°	0.7	8.6	18.9	27.1	30.1
127.5°	0.7	8.3	17.9	25.8	28.5
130°	0.7	7.6	17.2	24.5	27.1
132.5°	0.7	7.3	16.2	22.8	25.5
135°	0.7	6.6	15.2	21.5	24.2
137.5°	0.7	6.3	14.2	20.2	22.5
140°	0.7	6.0	12.9	18.9	21.2
142.5°	0.7	5.3	11.9	17.5	19.5
145°	0.7	5.0	10.6	16.2	17.9
147.5°	0.7	4.3	9.6	14.9	16.5
150°	0.7	4.0	8.6	13.6	15.2
152.5°	0.7	3.6	7.6	11.9	13.6
155°	0.7	3.3	7.0	10.3	12.2
157.5°	0.7	3.0	6.0	8.9	10.9
160°	1.0	2.6	5.3	7.6	9.3
162.5°	1.0	2.3	4.3	6.3	8.3
165°	1.0	2.3	3.6	5.0	7.0
167.5°	1.0	2.0	3.0	4.0	5.6
170°	1.0	1.7	2.6	3.0	4.3
172.5°	1.0	1.3	2.0	2.0	2.3
175°	1.0	1.3	1.7	1.7	1.0
177.5°	1.0	1.0	1.0	1.0	0.7
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)