

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: P566096

Luminaire Tested: **4SNX-20SL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-20SL-LC-UNV-L840-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

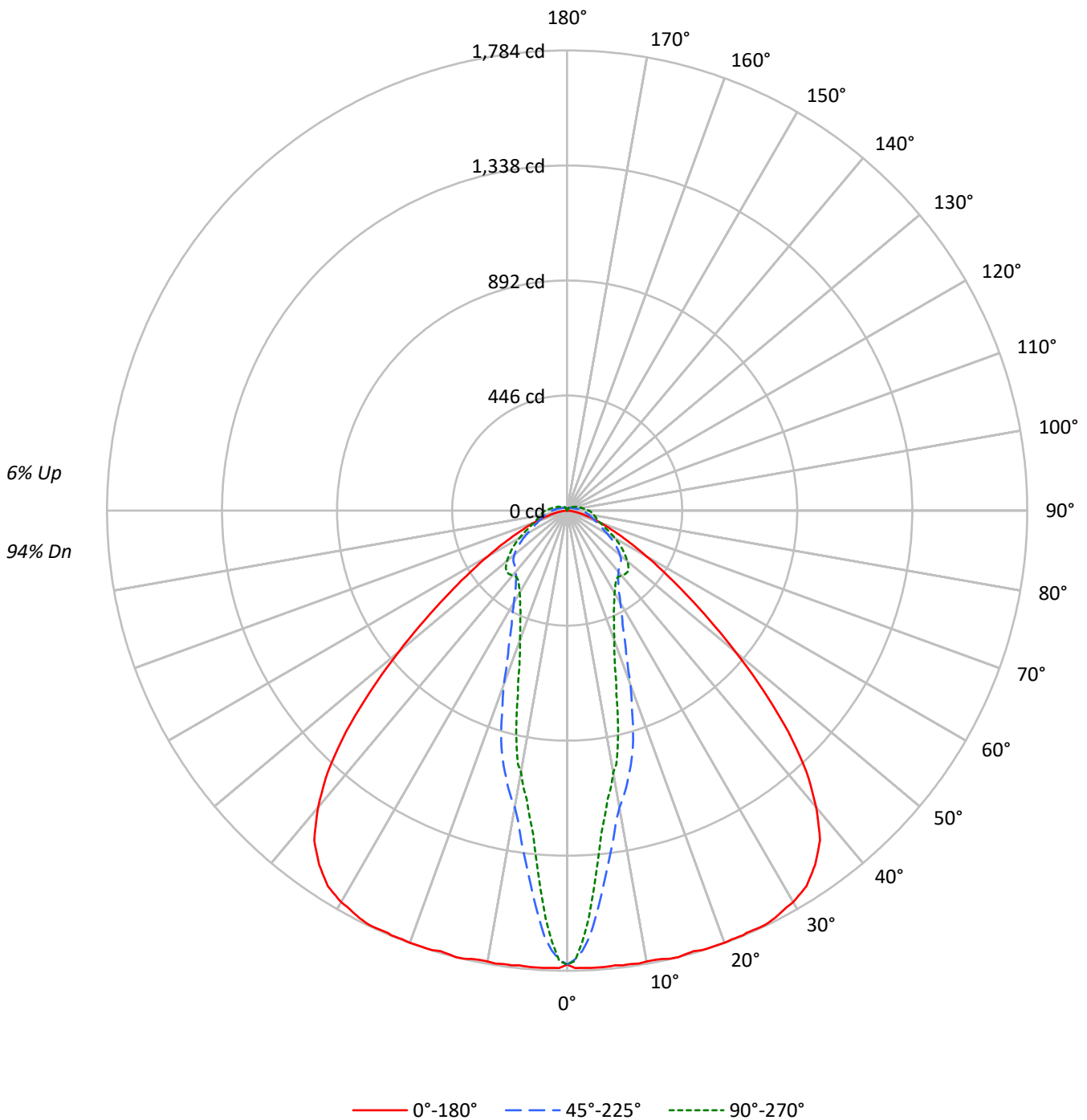
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2169.0 lumens
Efficiency: N/A
Efficacy: 179.3 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18940	18940	18940
5°	19111	15556	13925
10°	19261	11744	10078
15°	19612	9600	6978
20°	20118	6947	4929
25°	20746	4977	3878
30°	21275	3976	3302
35°	21401	3363	2957
40°	20403	3057	2965
45°	17706	2953	3046
50°	13584	2809	2842
55°	9844	2456	2522
60°	7142	2050	2132
65°	5197	1734	1747
70°	3829	1531	1507
75°	2721	1418	1405
80°	1785	1328	1383
85°	837	1265	1385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	6.4
10°-20°	300.5	13.9
20°-30°	344.0	15.9
30°-40°	344.6	15.9
40°-50°	326.2	15.0
50°-60°	250.2	11.5
60°-70°	161.2	7.4
70°-80°	102.8	4.7
80°-90°	68.3	3.1
90°-100°	45.9	2.1
100°-110°	30.2	1.4
110°-120°	21.0	1.0
120°-130°	14.7	0.7
130°-140°	10.2	0.5
140°-150°	6.2	0.3
150°-160°	3.2	0.1
160°-170°	1.2	0.1
170°-180°	0.2	0.0
0°-30°	782.8	36.1
0°-40°	1127.4	52.0
0°-60°	1703.7	78.6
0°-90°	2036.1	93.9
90°-120°	97.2	4.5
90°-150°	128.3	5.9
90°-180°	133.0	6.1
0°-180°	2169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1760	1760	1760	1760	1760	
5°	1775	1677	1503	1402	1364	169
15°	1780	1282	977	802	738	505
25°	1781	907	517	449	428	821
35°	1676	505	346	335	330	1040
45°	1212	319	291	322	334	921
55°	556	228	224	252	262	511
65°	222	143	141	161	167	229
75°	76	78	98	112	118	83
85°	10	36	69	90	97	14
90°	0	24	58	80	83	0
95°	0	18	48	66	69	0
105°	0	13	31	44	48	1
115°	1	11	23	32	34	1
125°	1	10	20	23	24	1
135°	1	8	16	19	20	1
145°	1	6	11	14	16	1
155°	1	3	7	10	11	1
165°	2	2	4	6	7	1
175°	2	2	2	2	1	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1759.6	1759.6	1759.6	1759.6	1759.6
1°	1774.0	1764.0	1740.7	1747.4	1746.3
2°	1774.0	1752.9	1707.4	1694.0	1674.0
3°	1775.2	1734.0	1656.2	1612.9	1585.1
4°	1775.2	1706.2	1580.6	1508.4	1472.8
5°	1775.2	1677.3	1502.8	1401.7	1363.9
6°	1772.9	1642.9	1423.9	1317.2	1260.5
7°	1776.3	1605.1	1352.8	1238.3	1193.8
8°	1775.2	1560.6	1287.2	1178.3	1129.3
9°	1778.5	1517.3	1216.0	1121.6	1084.9
10°	1775.2	1477.3	1169.4	1068.2	1030.4
11°	1775.2	1438.4	1136.0	1033.7	1001.5
12°	1777.4	1393.9	1099.3	984.8	940.4
13°	1782.9	1348.3	1057.1	931.5	879.2
14°	1784.1	1313.9	1018.2	863.7	809.2
15°	1779.6	1281.6	977.1	802.5	738.1
16°	1777.4	1248.3	928.2	744.7	686.9
17°	1781.8	1209.4	872.6	685.8	632.5
18°	1782.9	1173.8	813.7	641.4	594.7
19°	1782.9	1146.0	765.9	600.2	560.2
20°	1782.9	1119.3	717.0	569.1	534.7
21°	1780.7	1086.0	661.4	536.9	508.0
22.5°	1781.8	1023.7	598.0	499.1	475.7
23°	1778.5	1008.2	582.5	489.1	464.6
24°	1779.6	963.7	549.1	469.1	445.7
25°	1780.7	907.0	516.9	449.1	428.0
26°	1778.5	861.5	490.2	430.2	415.7
27°	1772.9	824.8	471.3	414.6	401.3
28°	1765.2	775.9	451.3	401.3	389.0
29°	1757.4	720.3	431.3	386.8	377.9
30°	1752.9	675.8	412.4	375.7	367.9
32.5°	1726.3	588.0	373.5	353.5	346.8
35°	1676.2	504.6	345.7	334.6	330.1
37.5°	1610.6	440.2	324.6	322.4	323.5
40°	1502.8	389.0	309.0	319.0	329.0
42.5°	1373.9	349.0	297.9	322.4	333.5
45°	1211.6	319.0	291.2	322.4	333.5
47.5°	1031.5	294.6	283.4	311.2	322.4
50°	851.5	272.3	267.9	294.6	304.6
52.5°	692.5	251.2	247.9	273.4	283.4
55°	555.8	227.9	224.5	252.3	262.3
57.5°	445.7	205.6	202.3	227.9	237.9
60°	355.7	183.4	177.8	203.4	213.4
62.5°	283.4	162.3	159.0	181.2	190.1
65°	222.3	143.4	141.2	161.2	166.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	175.6	125.6	126.7	143.4	150.1
70°	135.6	108.9	115.6	131.2	135.6
72.5°	102.3	92.3	106.7	120.0	125.6
75°	75.6	77.8	97.8	112.3	117.8
77.5°	52.2	64.5	90.0	105.6	111.2
80°	35.6	52.2	82.3	100.0	106.7
82.5°	21.1	43.4	75.6	94.5	102.3
85°	10.0	35.6	68.9	90.0	96.7
87.5°	3.3	28.9	62.2	85.6	91.1
90°	0.0	24.5	57.8	80.0	83.4
92.5°	0.0	21.1	52.2	73.4	75.6
95°	0.0	17.8	47.8	65.6	68.9
97.5°	0.0	16.7	44.5	58.9	63.4
100°	0.0	15.6	40.0	53.4	57.8
102.5°	0.0	13.3	35.6	47.8	52.2
105°	0.0	13.3	31.1	44.5	47.8
107.5°	1.1	12.2	28.9	40.0	44.5
110°	1.1	12.2	25.6	37.8	41.1
112.5°	1.1	12.2	24.5	34.5	38.9
115°	1.1	11.1	23.3	32.2	34.5
117.5°	1.1	11.1	22.2	28.9	31.1
120°	1.1	10.0	21.1	26.7	27.8
122.5°	1.1	10.0	20.0	24.5	25.6
125°	1.1	10.0	20.0	23.3	24.5
127.5°	1.1	8.9	18.9	22.2	22.2
130°	1.1	8.9	17.8	21.1	21.1
132.5°	1.1	7.8	16.7	20.0	21.1
135°	1.1	7.8	15.6	18.9	20.0
137.5°	1.1	6.7	14.5	17.8	18.9
140°	1.1	6.7	13.3	16.7	17.8
142.5°	1.1	5.6	12.2	15.6	16.7
145°	1.1	5.6	11.1	14.5	15.6
147.5°	1.1	5.6	10.0	13.3	14.5
150°	1.1	4.4	8.9	12.2	13.3
152.5°	1.1	4.4	7.8	11.1	12.2
155°	1.1	3.3	6.7	10.0	11.1
157.5°	1.1	3.3	6.7	8.9	10.0
160°	2.2	3.3	5.6	7.8	8.9
162.5°	1.1	2.2	5.6	6.7	7.8
165°	2.2	2.2	4.4	5.6	6.7
167.5°	2.2	2.2	3.3	4.4	5.6
170°	2.2	2.2	3.3	3.3	4.4
172.5°	2.2	2.2	2.2	3.3	2.2
175°	2.2	2.2	2.2	2.2	1.1
177.5°	2.2	2.2	2.2	2.2	1.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)