

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: P566094

Luminaire Tested: **4SNX-20SL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566094
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-L830-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

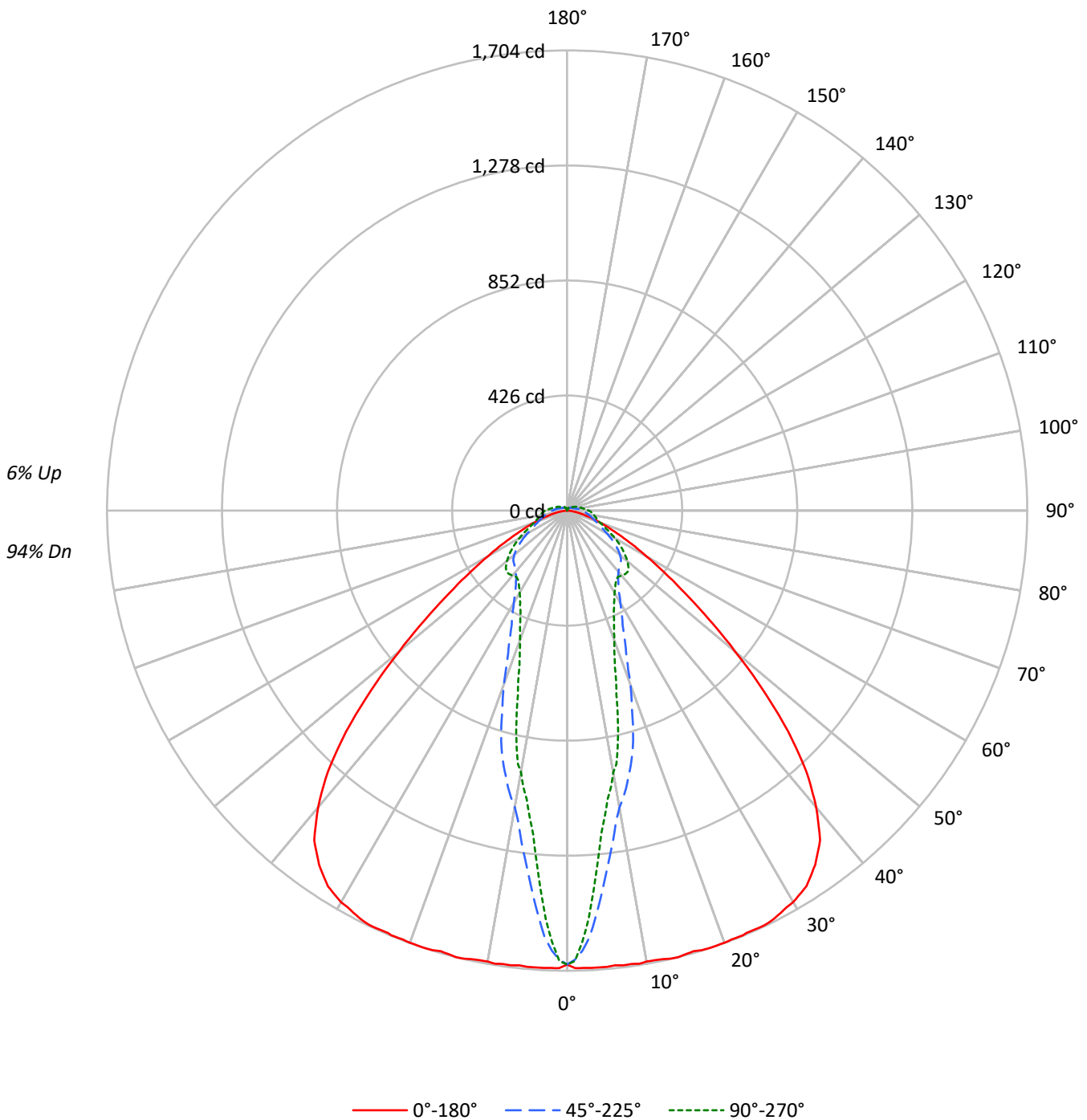
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2072.0 lumens
Efficiency: N/A
Efficacy: 171.2 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 (Ain): 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°	18093	18093	18093
5°	18257	14860	13302
10°	18400	11219	9627
15°	18735	9171	6666
20°	19218	6636	4708
25°	19818	4754	3704
30°	20324	3798	3155
35°	20445	3212	2825
40°	19491	2920	2832
45°	16914	2822	2910
50°	12977	2683	2715
55°	9403	2347	2409
60°	6823	1958	2037
65°	4966	1657	1670
70°	3657	1462	1439
75°	2599	1354	1343
80°	1705	1269	1321
85°	803	1208	1324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	6.4
10°-20°	287.1	13.9
20°-30°	328.6	15.9
30°-40°	329.2	15.9
40°-50°	311.6	15.0
50°-60°	239.0	11.5
60°-70°	154.0	7.4
70°-80°	98.2	4.7
80°-90°	65.2	3.1
90°-100°	43.9	2.1
100°-110°	28.9	1.4
110°-120°	20.1	1.0
120°-130°	14.0	0.7
130°-140°	9.7	0.5
140°-150°	6.0	0.3
150°-160°	3.0	0.1
160°-170°	1.2	0.1
170°-180°	0.2	0.0
0°-30°	747.8	36.1
0°-40°	1077.0	52.0
0°-60°	1627.6	78.5
0°-90°	1945.1	93.9
90°-120°	92.8	4.5
90°-150°	122.6	5.9
90°-180°	127.0	6.1
0°-180°	2072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1681	1681	1681	1681	1681	
5°	1696	1602	1436	1339	1303	162
15°	1700	1224	933	767	705	482
25°	1701	866	494	429	409	784
35°	1601	482	330	320	315	994
45°	1157	305	278	308	319	880
55°	531	218	214	241	251	488
65°	212	137	135	154	159	218
75°	72	74	93	107	113	79
85°	10	34	66	86	92	13
90°	0	23	55	76	80	0
95°	0	17	46	63	66	0
105°	0	13	30	42	46	1
115°	1	11	22	31	33	1
125°	1	10	19	22	23	1
135°	1	7	15	18	19	1
145°	1	5	11	14	15	1
155°	1	3	6	10	11	1
165°	2	2	4	5	6	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°	1680.9	1680.9	1680.9	1680.9	1680.9
1°	1694.7	1685.2	1662.9	1669.2	1668.2
2°	1694.7	1674.5	1631.0	1618.3	1599.1
3°	1695.8	1656.5	1582.2	1540.7	1514.2
4°	1695.8	1629.9	1509.9	1440.9	1406.9
5°	1695.8	1602.3	1435.6	1339.0	1302.9
6°	1693.6	1569.4	1360.2	1258.3	1204.1
7°	1696.8	1533.3	1292.3	1182.9	1140.4
8°	1695.8	1490.8	1229.6	1125.6	1078.8
9°	1699.0	1449.4	1161.7	1071.4	1036.4
10°	1695.8	1411.2	1117.1	1020.4	984.3
11°	1695.8	1374.0	1085.2	987.5	956.7
12°	1697.9	1331.6	1050.2	940.8	898.3
13°	1703.2	1288.0	1009.8	889.8	839.9
14°	1704.3	1255.1	972.7	825.1	773.0
15°	1700.0	1224.3	933.4	766.7	705.1
16°	1697.9	1192.5	886.6	711.4	656.2
17°	1702.1	1155.3	833.6	655.2	604.2
18°	1703.2	1121.3	777.3	612.7	568.1
19°	1703.2	1094.8	731.6	573.4	535.2
20°	1703.2	1069.3	684.9	543.7	510.7
21°	1701.1	1037.4	631.8	512.9	485.3
22.5°	1702.1	978.0	571.3	476.8	454.5
23°	1699.0	963.1	556.4	467.2	443.9
24°	1700.0	920.6	524.6	448.1	425.8
25°	1701.1	866.5	493.8	429.0	408.8
26°	1699.0	822.9	468.3	410.9	397.1
27°	1693.6	787.9	450.2	396.1	383.3
28°	1686.2	741.2	431.1	383.3	371.6
29°	1678.8	688.1	412.0	369.5	361.0
30°	1674.5	645.6	393.9	358.9	351.5
32.5°	1649.1	561.7	356.8	337.7	331.3
35°	1601.3	482.1	330.2	319.6	315.4
37.5°	1538.6	420.5	310.1	307.9	309.0
40°	1435.6	371.6	295.2	304.8	314.3
42.5°	1312.4	333.4	284.6	307.9	318.6
45°	1157.4	304.8	278.2	307.9	318.6
47.5°	985.4	281.4	270.8	297.3	307.9
50°	813.4	260.2	255.9	281.4	290.9
52.5°	661.5	240.0	236.8	261.2	270.8
55°	530.9	217.7	214.5	241.0	250.6
57.5°	425.8	196.4	193.3	217.7	227.2
60°	339.8	175.2	169.9	194.3	203.9
62.5°	270.8	155.0	151.8	173.1	181.6
65°	212.4	137.0	134.9	154.0	159.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	167.8	120.0	121.1	137.0	143.3
70°	129.5	104.1	110.4	125.3	129.5
72.5°	97.7	88.1	101.9	114.7	120.0
75°	72.2	74.3	93.4	107.2	112.6
77.5°	49.9	61.6	86.0	100.9	106.2
80°	34.0	49.9	78.6	95.6	101.9
82.5°	20.2	41.4	72.2	90.3	97.7
85°	9.6	34.0	65.8	86.0	92.4
87.5°	3.2	27.6	59.5	81.8	87.1
90°	0.0	23.4	55.2	76.5	79.6
92.5°	0.0	20.2	49.9	70.1	72.2
95°	0.0	17.0	45.7	62.6	65.8
97.5°	0.0	15.9	42.5	56.3	60.5
100°	0.0	14.9	38.2	51.0	55.2
102.5°	0.0	12.7	34.0	45.7	49.9
105°	0.0	12.7	29.7	42.5	45.7
107.5°	1.1	11.7	27.6	38.2	42.5
110°	1.1	11.7	24.4	36.1	39.3
112.5°	1.1	11.7	23.4	32.9	37.2
115°	1.1	10.6	22.3	30.8	32.9
117.5°	1.1	10.6	21.2	27.6	29.7
120°	1.1	9.6	20.2	25.5	26.5
122.5°	1.1	9.6	19.1	23.4	24.4
125°	1.1	9.6	19.1	22.3	23.4
127.5°	1.1	8.5	18.1	21.2	21.2
130°	1.1	8.5	17.0	20.2	20.2
132.5°	1.1	7.4	15.9	19.1	20.2
135°	1.1	7.4	14.9	18.1	19.1
137.5°	1.1	6.4	13.8	17.0	18.1
140°	1.1	6.4	12.7	15.9	17.0
142.5°	1.1	5.3	11.7	14.9	15.9
145°	1.1	5.3	10.6	13.8	14.9
147.5°	1.1	5.3	9.6	12.7	13.8
150°	1.1	4.2	8.5	11.7	12.7
152.5°	1.1	4.2	7.4	10.6	11.7
155°	1.1	3.2	6.4	9.6	10.6
157.5°	1.1	3.2	6.4	8.5	9.6
160°	2.1	3.2	5.3	7.4	8.5
162.5°	1.1	2.1	5.3	6.4	7.4
165°	2.1	2.1	4.2	5.3	6.4
167.5°	2.1	2.1	3.2	4.2	5.3
170°	2.1	2.1	3.2	3.2	4.2
172.5°	2.1	2.1	2.1	3.2	2.1
175°	2.1	2.1	2.1	2.1	1.1
177.5°	2.1	2.1	2.1	2.1	1.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)