

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: P566102

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-20SL-LN-UNV-L830-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

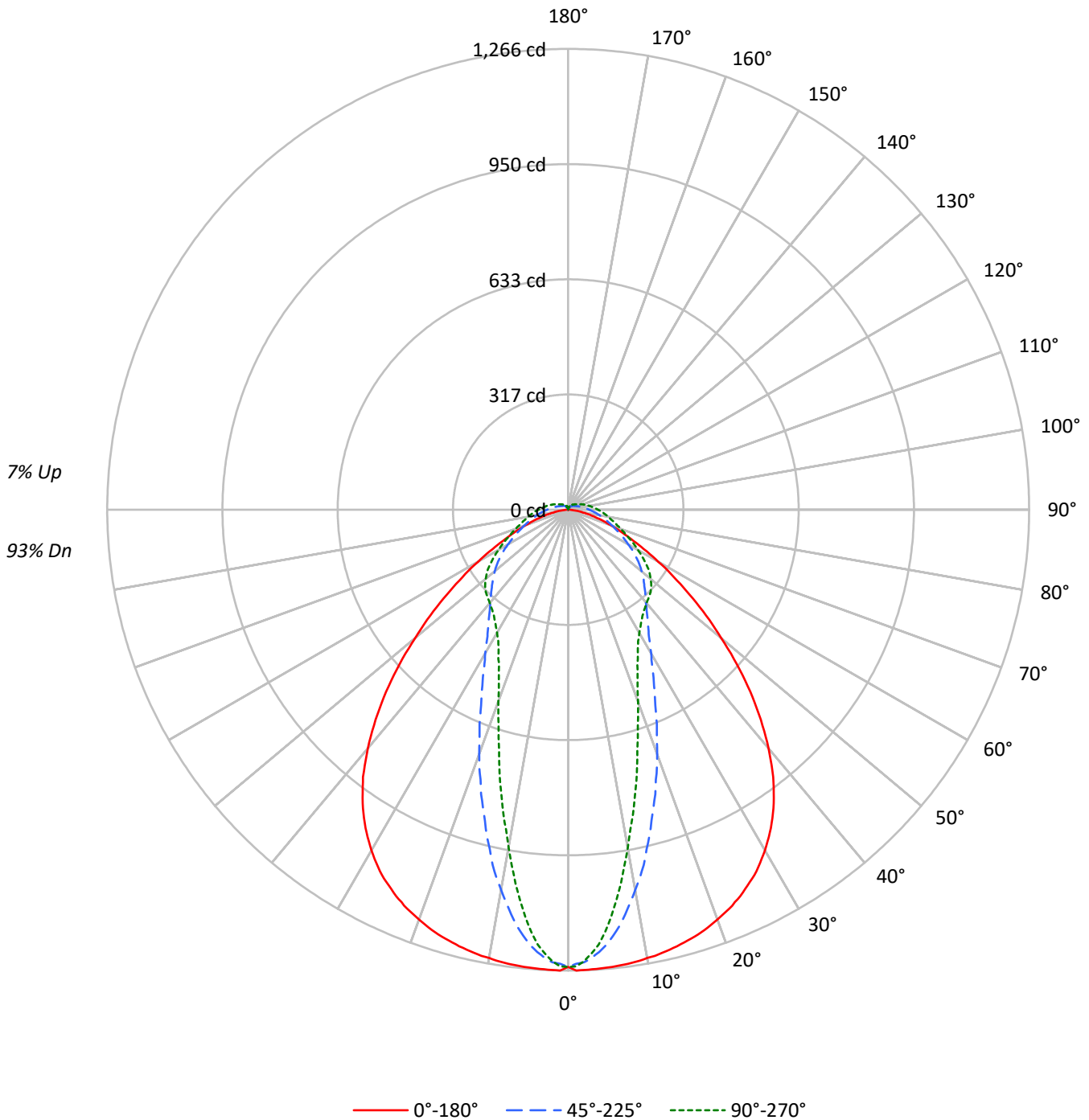
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2001.9 lumens
Efficiency: N/A
Efficacy: 165.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
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

TEST NUMBER: P566102
CATALOG NUMBER: 4SNX-20SL-LN-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566102

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13518	13518	13518
5°	13589	12425	11890
10°	13570	10654	9225
15°	13563	8690	6914
20°	13520	6922	5174
25°	13397	5424	4107
30°	13117	4391	3503
35°	12566	3715	3187
40°	11624	3281	3016
45°	10335	3001	2923
50°	8754	2762	2761
55°	7191	2502	2522
60°	5751	2202	2212
65°	4466	1933	1925
70°	3468	1710	1703
75°	2681	1536	1551
80°	1895	1406	1442
85°	1054	1309	1383



TEST NUMBER: P566102

CATALOG NUMBER: 4SNX-20SL-LN-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	5.6
10°-20°	260.7	13.0
20°-30°	309.5	15.5
30°-40°	311.3	15.6
40°-50°	289.4	14.5
50°-60°	238.3	11.9
60°-70°	167.9	8.4
70°-80°	109.7	5.5
80°-90°	70.0	3.5
90°-100°	45.9	2.3
100°-110°	31.2	1.6
110°-120°	21.4	1.1
120°-130°	14.8	0.7
130°-140°	9.9	0.5
140°-150°	6.1	0.3
150°-160°	3.2	0.2
160°-170°	1.1	0.1
170°-180°	0.2	0.0
0°-30°	681.4	34.0
0°-40°	992.7	49.6
0°-60°	1520.4	75.9
0°-90°	1868.1	93.3
90°-120°	98.5	4.9
90°-150°	129.3	6.5
90°-180°	134.0	6.7
0°-180°	2001.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1262	1245	1200	1177	1165	120
15°	1231	1100	884	773	731	348
25°	1150	850	563	473	453	529
35°	984	575	382	358	356	612
45°	707	379	296	312	320	543
55°	406	249	229	254	262	367
65°	191	150	157	177	184	194
75°	74	78	106	125	130	81
85°	13	36	71	92	96	16
90°	0	24	58	79	82	1
95°	0	18	48	66	69	0
105°	0	13	32	46	50	0
115°	1	10	23	34	36	1
125°	1	8	19	24	26	1
135°	1	7	15	19	20	1
145°	1	5	10	15	16	1
155°	1	4	7	10	12	0
165°	1	2	4	5	6	0
175°	2	2	2	2	1	0
180°	1	1	1	1	1	



TEST NUMBER: P566102

CATALOG NUMBER: 4SNX-20SL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.9	1255.9	1255.9	1255.9	1255.9
1°	1266.4	1261.2	1247.5	1257.0	1254.9
2°	1265.4	1260.1	1244.4	1248.6	1241.2
3°	1264.3	1257.0	1232.8	1231.8	1221.3
4°	1263.3	1251.7	1218.1	1205.6	1197.2
5°	1262.2	1245.4	1200.3	1177.2	1164.6
6°	1261.2	1238.1	1177.2	1142.6	1124.8
7°	1259.1	1226.5	1153.1	1105.9	1082.8
8°	1257.0	1216.0	1122.7	1066.0	1037.7
9°	1254.9	1202.4	1092.2	1023.0	989.4
10°	1250.7	1188.8	1060.8	978.9	943.2
11°	1248.6	1173.0	1030.3	937.0	895.0
12°	1244.4	1156.2	997.8	892.9	856.2
13°	1240.2	1138.4	957.9	855.1	811.0
14°	1236.0	1119.5	923.3	813.1	772.2
15°	1230.7	1099.6	884.5	773.3	731.3
16°	1225.5	1076.5	849.9	732.4	688.3
17°	1220.2	1054.5	817.3	694.6	654.7
18°	1213.9	1032.4	779.6	657.9	619.0
19°	1205.6	1007.2	749.1	624.3	588.6
20°	1198.2	984.2	714.5	592.8	561.3
21°	1189.8	955.8	679.9	563.4	532.0
22.5°	1177.2	916.0	635.8	526.7	497.3
23°	1170.9	904.4	618.0	513.1	487.9
24°	1162.5	874.0	588.6	492.1	466.9
25°	1149.9	849.9	563.4	473.2	453.3
26°	1138.4	820.5	538.2	456.4	436.5
27°	1126.9	792.2	516.2	438.6	421.8
28°	1112.2	762.8	492.1	423.9	409.2
29°	1096.4	735.5	472.1	411.3	399.8
30°	1080.7	705.1	455.4	399.8	390.3
32.5°	1036.6	637.9	412.3	377.7	371.4
35°	984.2	575.0	381.9	357.8	355.7
37.5°	925.4	517.3	354.6	342.0	344.1
40°	856.2	464.8	331.6	330.5	334.7
42.5°	782.7	419.7	313.7	321.1	327.4
45°	707.2	378.8	295.9	311.6	320.0
47.5°	628.5	343.1	280.1	300.1	309.5
50°	548.7	308.5	263.4	286.4	295.9
52.5°	477.4	278.0	246.6	270.7	281.2
55°	406.0	248.7	228.7	253.9	262.3
57.5°	344.1	221.4	209.8	235.0	241.3
60°	286.4	195.2	191.0	214.0	221.4
62.5°	234.0	172.1	173.1	195.2	202.5
65°	191.0	150.0	157.4	177.3	183.6



TEST NUMBER: P566102

CATALOG NUMBER: 4SNX-20SL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	155.3	129.1	141.6	162.6	167.9
70°	122.8	110.2	129.1	147.9	153.2
72.5°	97.6	93.4	116.5	136.4	140.6
75°	74.5	77.6	106.0	124.9	130.1
77.5°	53.5	65.1	95.5	115.4	119.6
80°	37.8	53.5	87.1	107.0	111.2
82.5°	24.1	44.1	78.7	99.7	103.9
85°	12.6	35.7	71.3	92.3	96.5
87.5°	5.2	29.4	64.0	85.0	89.2
90°	0.0	24.1	57.7	78.7	81.8
92.5°	0.0	21.0	52.5	72.4	75.5
95°	0.0	17.8	48.3	66.1	69.2
97.5°	0.0	16.8	43.0	60.9	64.0
100°	0.0	14.7	38.8	55.6	59.8
102.5°	0.0	13.6	35.7	50.4	54.6
105°	0.0	12.6	32.5	46.2	50.4
107.5°	0.0	11.5	30.4	43.0	46.2
110°	0.0	11.5	27.3	39.9	43.0
112.5°	1.0	10.5	25.2	35.7	38.8
115°	1.0	10.5	23.1	33.6	35.7
117.5°	1.0	10.5	22.0	30.4	32.5
120°	1.0	9.4	21.0	28.3	30.4
122.5°	1.0	9.4	19.9	26.2	27.3
125°	1.0	8.4	18.9	24.1	26.2
127.5°	1.0	8.4	17.8	23.1	24.1
130°	1.0	8.4	16.8	21.0	23.1
132.5°	1.0	7.3	15.7	19.9	21.0
135°	1.0	7.3	14.7	18.9	19.9
137.5°	1.0	6.3	13.6	17.8	18.9
140°	1.0	6.3	12.6	16.8	17.8
142.5°	1.0	5.2	11.5	15.7	16.8
145°	1.0	5.2	10.5	14.7	15.7
147.5°	1.0	5.2	9.4	13.6	14.7
150°	1.0	4.2	8.4	12.6	13.6
152.5°	1.0	4.2	7.3	11.5	12.6
155°	1.0	4.2	7.3	10.5	11.5
157.5°	1.0	3.1	6.3	8.4	10.5
160°	1.0	3.1	5.2	7.3	9.4
162.5°	1.0	3.1	5.2	6.3	7.3
165°	1.0	2.1	4.2	5.2	6.3
167.5°	1.0	2.1	3.1	4.2	5.2
170°	1.0	2.1	3.1	3.1	4.2
172.5°	1.0	2.1	2.1	2.1	2.1
175°	2.1	2.1	2.1	2.1	1.0
177.5°	2.1	2.1	2.1	1.0	1.0



TEST NUMBER: P566102

CATALOG NUMBER: 4SNX-20SL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)