

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: P566100

Luminaire Tested: **4SNX-20SL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566100
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-L940-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

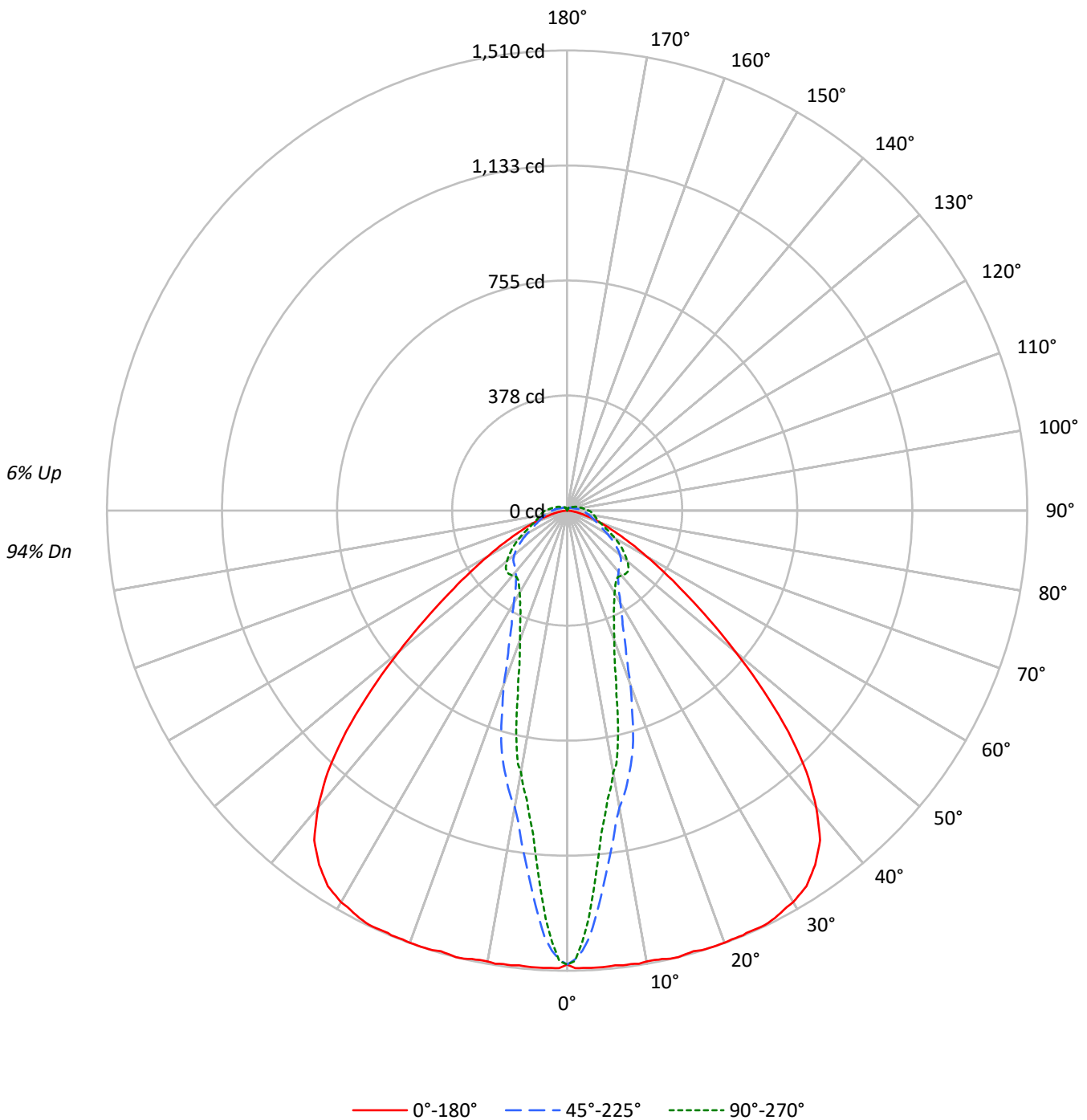
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1836.0 lumens
Efficiency: N/A
Efficacy: 151.7 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°	16033	16033	16033
5°	16177	13168	11787
10°	16304	9941	8530
15°	16601	8126	5907
20°	17029	5880	4172
25°	17561	4212	3282
30°	18009	3366	2795
35°	18116	2847	2503
40°	17271	2588	2509
45°	14988	2500	2578
50°	11498	2378	2406
55°	8334	2080	2135
60°	6046	1735	1805
65°	4400	1467	1479
70°	3242	1297	1276
75°	2303	1200	1189
80°	1509	1123	1171
85°	711	1071	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	6.4
10°-20°	254.4	13.9
20°-30°	291.2	15.9
30°-40°	291.7	15.9
40°-50°	276.1	15.0
50°-60°	211.8	11.5
60°-70°	136.5	7.4
70°-80°	87.0	4.7
80°-90°	57.8	3.1
90°-100°	38.9	2.1
100°-110°	25.6	1.4
110°-120°	17.8	1.0
120°-130°	12.4	0.7
130°-140°	8.6	0.5
140°-150°	5.3	0.3
150°-160°	2.7	0.1
160°-170°	1.0	0.1
170°-180°	0.2	0.0
0°-30°	662.7	36.1
0°-40°	954.3	52.0
0°-60°	1442.2	78.6
0°-90°	1723.5	93.9
90°-120°	82.3	4.5
90°-150°	108.6	5.9
90°-180°	112.0	6.1
0°-180°	1836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1503	1420	1272	1186	1154	143
15°	1506	1085	827	679	625	427
25°	1507	768	438	380	362	695
35°	1419	427	293	283	279	880
45°	1026	270	246	273	282	780
55°	470	193	190	214	222	433
65°	188	121	120	136	141	194
75°	64	66	83	95	100	70
85°	8	30	58	76	82	12
90°	0	21	49	68	71	0
95°	0	15	40	56	58	0
105°	0	11	26	38	40	1
115°	1	9	20	27	29	1
125°	1	8	17	20	21	1
135°	1	7	13	16	17	1
145°	1	5	9	12	13	1
155°	1	3	6	8	9	0
165°	2	2	4	5	6	0
175°	2	2	2	2	1	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 4SNX-20SL-LC-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.5	1489.5	1489.5	1489.5	1489.5
1°	1501.7	1493.2	1473.5	1479.1	1478.2
2°	1501.7	1483.8	1445.2	1433.9	1417.0
3°	1502.6	1467.8	1401.9	1365.3	1341.7
4°	1502.6	1444.3	1338.0	1276.8	1246.7
5°	1502.6	1419.8	1272.1	1186.5	1154.5
6°	1500.7	1390.7	1205.3	1115.0	1067.0
7°	1503.6	1358.7	1145.1	1048.2	1010.5
8°	1502.6	1321.0	1089.6	997.4	956.0
9°	1505.4	1284.3	1029.3	949.4	918.3
10°	1502.6	1250.5	989.8	904.2	872.2
11°	1502.6	1217.5	961.6	875.0	847.8
12°	1504.5	1179.9	930.6	833.6	796.0
13°	1509.2	1141.3	894.8	788.5	744.3
14°	1510.2	1112.1	861.9	731.1	685.0
15°	1506.4	1084.9	827.1	679.3	624.8
16°	1504.5	1056.6	785.7	630.4	581.5
17°	1508.3	1023.7	738.6	580.5	535.4
18°	1509.2	993.6	688.7	542.9	503.4
19°	1509.2	970.1	648.3	508.1	474.2
20°	1509.2	947.5	606.9	481.7	452.6
21°	1507.3	919.3	559.8	454.5	430.0
22.5°	1508.3	866.6	506.2	422.5	402.7
23°	1505.4	853.4	493.0	414.0	393.3
24°	1506.4	815.8	464.8	397.1	377.3
25°	1507.3	767.8	437.5	380.1	362.2
26°	1505.4	729.2	414.9	364.1	351.9
27°	1500.7	698.2	398.9	351.0	339.7
28°	1494.2	656.8	382.0	339.7	329.3
29°	1487.6	609.7	365.1	327.4	319.9
30°	1483.8	572.1	349.1	318.0	311.4
32.5°	1461.2	497.7	316.1	299.2	293.6
35°	1418.9	427.2	292.6	283.2	279.4
37.5°	1363.4	372.6	274.7	272.9	273.8
40°	1272.1	329.3	261.6	270.0	278.5
42.5°	1163.0	295.4	252.2	272.9	282.3
45°	1025.6	270.0	246.5	272.9	282.3
47.5°	873.2	249.3	239.9	263.5	272.9
50°	720.7	230.5	226.8	249.3	257.8
52.5°	586.2	212.6	209.8	231.5	239.9
55°	470.5	192.9	190.1	213.6	222.1
57.5°	377.3	174.1	171.2	192.9	201.4
60°	301.1	155.2	150.5	172.2	180.7
62.5°	239.9	137.4	134.5	153.4	160.9
65°	188.2	121.4	119.5	136.4	141.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	148.7	106.3	107.3	121.4	127.0
70°	114.8	92.2	97.9	111.0	114.8
72.5°	86.6	78.1	90.3	101.6	106.3
75°	64.0	65.9	82.8	95.0	99.7
77.5°	44.2	54.6	76.2	89.4	94.1
80°	30.1	44.2	69.6	84.7	90.3
82.5°	17.9	36.7	64.0	80.0	86.6
85°	8.5	30.1	58.3	76.2	81.9
87.5°	2.8	24.5	52.7	72.4	77.2
90°	0.0	20.7	48.9	67.7	70.6
92.5°	0.0	17.9	44.2	62.1	64.0
95°	0.0	15.1	40.5	55.5	58.3
97.5°	0.0	14.1	37.6	49.9	53.6
100°	0.0	13.2	33.9	45.2	48.9
102.5°	0.0	11.3	30.1	40.5	44.2
105°	0.0	11.3	26.3	37.6	40.5
107.5°	0.9	10.3	24.5	33.9	37.6
110°	0.9	10.3	21.6	32.0	34.8
112.5°	0.9	10.3	20.7	29.2	32.9
115°	0.9	9.4	19.8	27.3	29.2
117.5°	0.9	9.4	18.8	24.5	26.3
120°	0.9	8.5	17.9	22.6	23.5
122.5°	0.9	8.5	16.9	20.7	21.6
125°	0.9	8.5	16.9	19.8	20.7
127.5°	0.9	7.5	16.0	18.8	18.8
130°	0.9	7.5	15.1	17.9	17.9
132.5°	0.9	6.6	14.1	16.9	17.9
135°	0.9	6.6	13.2	16.0	16.9
137.5°	0.9	5.6	12.2	15.1	16.0
140°	0.9	5.6	11.3	14.1	15.1
142.5°	0.9	4.7	10.3	13.2	14.1
145°	0.9	4.7	9.4	12.2	13.2
147.5°	0.9	4.7	8.5	11.3	12.2
150°	0.9	3.8	7.5	10.3	11.3
152.5°	0.9	3.8	6.6	9.4	10.3
155°	0.9	2.8	5.6	8.5	9.4
157.5°	0.9	2.8	5.6	7.5	8.5
160°	1.9	2.8	4.7	6.6	7.5
162.5°	0.9	1.9	4.7	5.6	6.6
165°	1.9	1.9	3.8	4.7	5.6
167.5°	1.9	1.9	2.8	3.8	4.7
170°	1.9	1.9	2.8	2.8	3.8
172.5°	1.9	1.9	1.9	2.8	1.9
175°	1.9	1.9	1.9	1.9	0.9
177.5°	1.9	1.9	1.9	1.9	0.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)