

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: P567276

Luminaire Tested: **8SNX-120SL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-120SL-LW-UNV-L840-CD  
Description: 8FT 12000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

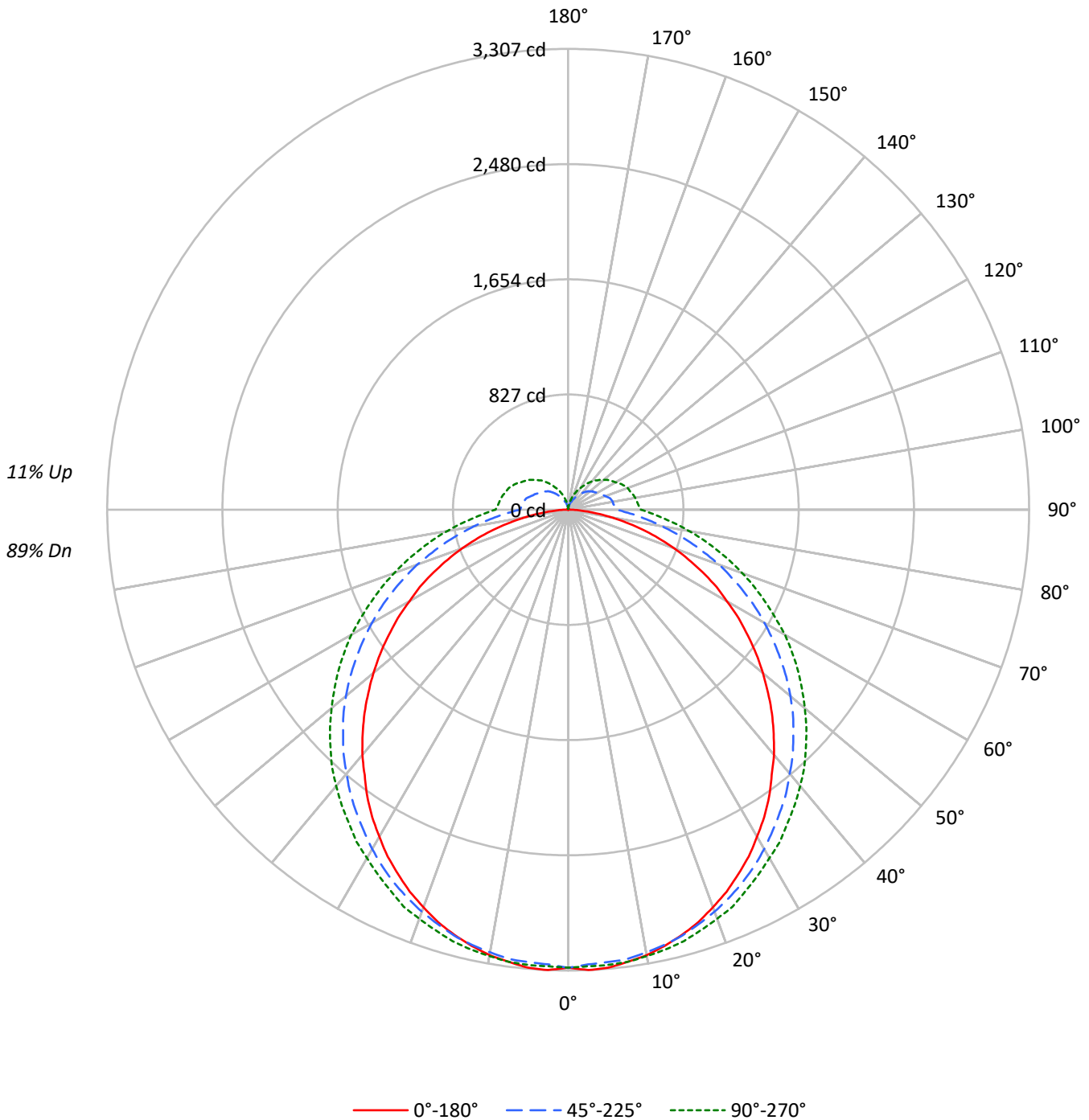
Lumens per Lamp: N/A  
Luminaire Lumens: 11699.0 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 84  
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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	76	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17687	17687	17687
5°	17795	16890	16741
10°	17672	16235	15905
15°	17495	15599	15151
20°	17255	14937	14397
25°	16976	14302	13659
30°	16643	13645	12953
35°	16279	12986	12292
40°	15861	12341	11662
45°	15408	11695	11016
50°	14891	11028	10338
55°	14324	10282	9673
60°	13656	9503	8970
65°	12968	8660	8168
70°	12001	7761	7380
75°	10720	6709	6544
80°	8640	5646	5711
85°	6085	4658	4854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.1	2.7
10°-20°	897.2	7.7
20°-30°	1364.2	11.7
30°-40°	1656.0	14.2
40°-50°	1749.9	15.0
50°-60°	1637.5	14.0
60°-70°	1343.6	11.5
70°-80°	924.1	7.9
80°-90°	506.1	4.3
90°-100°	325.9	2.8
100°-110°	292.4	2.5
110°-120°	242.0	2.1
120°-130°	186.4	1.6
130°-140°	131.0	1.1
140°-150°	78.9	0.7
150°-160°	37.8	0.3
160°-170°	12.4	0.1
170°-180°	1.5	0.0
0°-30°	2573.5	22.0
0°-40°	4229.5	36.2
0°-60°	7616.9	65.1
0°-90°	10390.7	88.8
90°-120°	860.4	7.4
90°-150°	1256.6	10.7
90°-180°	1308.0	11.2
0°-180°	11699.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3286	3286	3286	3286	3286	
5°	3300	3293	3259	3286	3280	313
15°	3158	3171	3164	3205	3205	890
25°	2886	2920	2954	3015	3015	1330
35°	2514	2575	2649	2724	2744	1570
45°	2067	2162	2284	2385	2412	1593
55°	1572	1701	1857	1972	2012	1407
65°	1064	1206	1389	1518	1558	1054
75°	556	705	908	1050	1098	585
85°	122	291	495	630	678	141
90°	0	163	346	474	522	8
95°	0	156	332	454	501	0
105°	0	129	312	427	468	4
115°	7	115	264	379	427	7
125°	7	95	224	325	366	6
135°	7	74	183	264	298	5
145°	7	54	129	203	224	4
155°	7	34	81	129	149	3
165°	7	20	41	61	74	2
175°	7	7	14	14	7	1
180°	7	7	7	7	7	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3286.3	3286.3	3286.3	3286.3	3286.3
2.5°	3306.6	3299.8	3265.9	3293.1	3279.5
5°	3299.8	3293.1	3259.2	3286.3	3279.5
7.5°	3272.7	3272.7	3252.4	3279.5	3272.7
10°	3245.6	3245.6	3225.3	3259.2	3252.4
12.5°	3205.0	3211.7	3198.2	3238.8	3232.1
15°	3157.5	3171.1	3164.3	3205.0	3205.0
17.5°	3103.3	3116.9	3116.9	3164.3	3164.3
20°	3035.6	3055.9	3069.4	3123.7	3123.7
22.5°	2967.8	2994.9	3015.2	3062.7	3083.0
25°	2886.5	2920.4	2954.3	3015.2	3015.2
27.5°	2805.2	2845.8	2886.5	2947.5	2954.3
30°	2710.3	2757.8	2812.0	2873.0	2886.5
32.5°	2615.5	2676.5	2730.7	2805.2	2825.5
35°	2513.8	2574.8	2649.3	2723.9	2744.2
37.5°	2398.6	2473.2	2568.0	2649.3	2669.7
40°	2297.0	2378.3	2473.2	2568.0	2588.4
42.5°	2181.8	2269.9	2385.1	2473.2	2507.1
45°	2066.6	2161.5	2283.5	2385.1	2412.2
47.5°	1944.7	2053.1	2188.6	2283.5	2317.3
50°	1822.7	1937.9	2080.2	2188.6	2215.7
52.5°	1700.7	1822.7	1971.8	2080.2	2114.1
55°	1572.0	1700.7	1856.6	1971.8	2012.4
57.5°	1450.0	1578.8	1741.4	1863.4	1904.0
60°	1314.5	1463.6	1626.2	1748.2	1795.6
62.5°	1199.3	1334.8	1511.0	1633.0	1673.6
65°	1063.8	1206.1	1389.0	1517.8	1558.4
67.5°	935.1	1084.1	1267.1	1402.6	1443.3
70°	806.3	955.4	1151.9	1280.6	1328.1
72.5°	677.6	833.4	1023.1	1165.4	1212.9
75°	555.6	704.7	908.0	1050.3	1097.7
77.5°	426.9	589.5	792.8	935.1	989.3
80°	311.7	481.1	684.4	826.7	880.9
82.5°	210.1	379.4	582.7	725.0	779.2
85°	122.0	291.4	494.6	630.2	677.6
87.5°	61.0	223.6	413.3	548.8	596.3
90°	0.0	162.6	345.6	474.3	521.7
92.5°	0.0	155.8	338.8	460.8	508.2
95°	0.0	155.8	332.0	454.0	501.4
97.5°	0.0	149.1	325.2	454.0	494.6
100°	0.0	142.3	325.2	447.2	487.9
102.5°	0.0	135.5	318.5	440.4	481.1
105°	0.0	128.7	311.7	426.9	467.5
107.5°	6.8	128.7	298.1	420.1	460.8
110°	6.8	122.0	284.6	413.3	454.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.8	115.2	271.0	399.8	440.4
115°	6.8	115.2	264.3	379.4	426.9
117.5°	6.8	108.4	250.7	365.9	413.3
120°	6.8	108.4	243.9	352.3	393.0
122.5°	6.8	101.6	230.4	338.8	379.4
125°	6.8	94.9	223.6	325.2	365.9
127.5°	6.8	88.1	216.8	311.7	352.3
130°	6.8	81.3	203.3	298.1	332.0
132.5°	6.8	81.3	196.5	277.8	318.5
135°	6.8	74.5	182.9	264.3	298.1
137.5°	6.8	67.8	169.4	250.7	284.6
140°	6.8	61.0	155.8	237.2	264.3
142.5°	6.8	61.0	142.3	216.8	243.9
145°	6.8	54.2	128.7	203.3	223.6
147.5°	6.8	47.4	115.2	182.9	203.3
150°	6.8	47.4	101.6	162.6	182.9
152.5°	6.8	40.7	88.1	149.1	169.4
155°	6.8	33.9	81.3	128.7	149.1
157.5°	6.8	33.9	67.8	108.4	128.7
160°	6.8	27.1	61.0	88.1	108.4
162.5°	6.8	27.1	54.2	74.5	94.9
165°	6.8	20.3	40.7	61.0	74.5
167.5°	6.8	20.3	33.9	47.4	61.0
170°	6.8	13.6	27.1	33.9	47.4
172.5°	6.8	13.6	20.3	20.3	20.3
175°	6.8	6.8	13.6	13.6	6.8
177.5°	6.8	6.8	6.8	6.8	6.8
180°	6.8	6.8	6.8	6.8	6.8

(END OF REPORT)