

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: P567250

Luminaire Tested: **8SNX-120SL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-120SL-FDL-UNV-L830-CD  
Description: 8FT 12000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

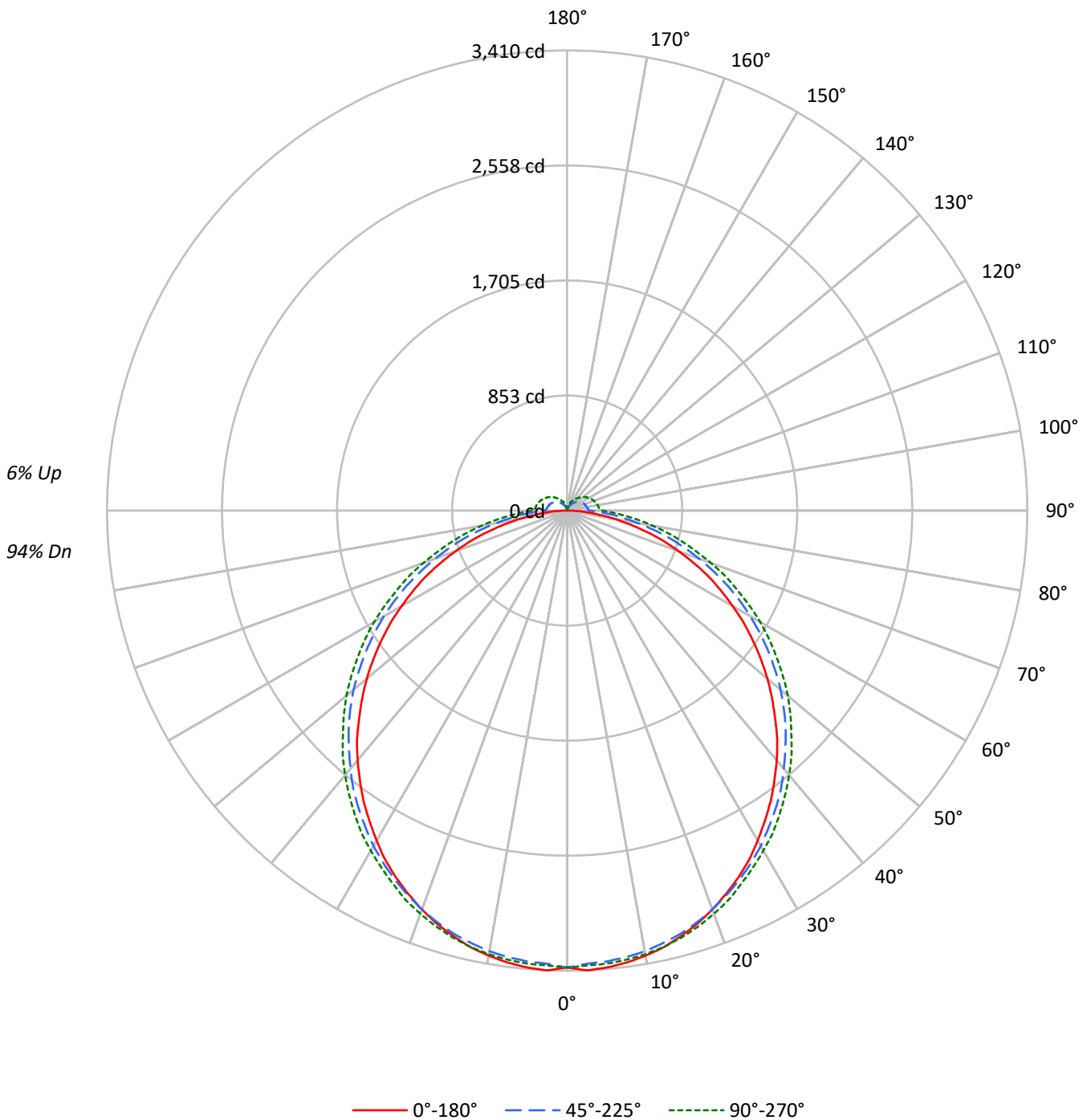
Lumens per Lamp: N/A  
Luminaire Lumens: 10759.0 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Direct

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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

	0°	45°	90°
0°	18222	18222	18222
5°	18355	17926	17947
10°	18288	17737	17721
15°	18159	17519	17468
20°	17982	17253	17171
25°	17777	16960	16818
30°	17495	16662	16493
35°	17212	16312	16153
40°	16899	15925	15772
45°	16503	15542	15326
50°	16124	15105	14919
55°	15651	14563	14353
60°	15121	13943	13798
65°	14565	13203	13030
70°	13596	12272	12235
75°	12437	11176	11284
80°	10726	9719	10231
85°	8661	8470	8992



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.1	3.0
10°-20°	921.4	8.6
20°-30°	1396.3	13.0
30°-40°	1685.6	15.7
40°-50°	1760.2	16.4
50°-60°	1617.0	15.0
60°-70°	1278.7	11.9
70°-80°	809.3	7.5
80°-90°	347.9	3.2
90°-100°	153.1	1.4
100°-110°	137.0	1.3
110°-120°	115.8	1.1
120°-130°	90.2	0.8
130°-140°	62.5	0.6
140°-150°	37.5	0.3
150°-160°	18.3	0.2
160°-170°	6.3	0.1
170°-180°	0.9	0.0
0°-30°	2638.7	24.5
0°-40°	4324.3	40.2
0°-60°	7701.5	71.6
0°-90°	10137.4	94.2
90°-120°	405.9	3.8
90°-150°	596.1	5.5
90°-180°	622.0	5.8
0°-180°	10759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3386	3386	3386	3386	3386	
5°	3399	3390	3353	3382	3370	323
15°	3264	3264	3247	3281	3275	921
25°	3001	3014	3018	3058	3052	1382
35°	2629	2660	2694	2736	2746	1644
45°	2180	2233	2290	2334	2349	1683
55°	1680	1749	1821	1880	1894	1503
65°	1156	1221	1307	1368	1389	1139
75°	610	682	781	848	880	646
85°	149	229	328	398	423	164
90°	10	82	168	234	259	13
95°	2	70	152	213	236	2
105°	2	65	143	200	221	2
115°	2	55	130	181	200	2
125°	4	50	109	156	173	3
135°	4	38	88	124	139	3
145°	4	29	61	93	103	2
155°	4	19	40	59	70	2
165°	6	13	21	29	40	2
175°	6	8	10	10	6	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3385.7	3385.7	3385.7	3385.7	3385.7
2.5°	3410.4	3399.0	3360.9	3387.6	3374.2
5°	3399.0	3389.5	3353.3	3381.8	3370.4
7.5°	3378.0	3370.4	3338.0	3368.5	3357.1
10°	3349.5	3343.7	3315.2	3345.6	3338.0
12.5°	3313.3	3311.3	3282.8	3317.1	3311.3
15°	3263.7	3263.7	3246.6	3280.9	3275.1
17.5°	3210.4	3212.3	3198.9	3235.1	3231.3
20°	3145.6	3155.1	3145.6	3183.7	3179.9
22.5°	3075.1	3088.4	3084.6	3122.7	3124.6
25°	3000.8	3014.1	3017.9	3057.9	3052.2
27.5°	2918.9	2939.8	2947.4	2983.6	2981.7
30°	2823.6	2852.2	2869.3	2899.8	2909.3
32.5°	2726.4	2760.7	2781.7	2823.6	2835.0
35°	2629.3	2659.7	2694.0	2736.0	2745.5
37.5°	2522.6	2556.9	2602.6	2642.6	2654.0
40°	2415.9	2454.0	2497.8	2541.6	2558.8
42.5°	2305.4	2345.4	2393.0	2444.5	2461.6
45°	2179.6	2233.0	2290.1	2333.9	2349.2
47.5°	2059.6	2118.7	2179.6	2227.3	2244.4
50°	1937.7	2000.5	2065.3	2109.1	2135.8
52.5°	1810.0	1878.6	1943.4	1998.6	2015.8
55°	1680.4	1749.0	1821.4	1880.5	1893.8
57.5°	1554.7	1621.4	1693.8	1749.0	1775.7
60°	1417.5	1489.9	1568.0	1623.3	1651.9
62.5°	1284.1	1354.6	1438.5	1497.5	1520.4
65°	1156.5	1221.3	1307.0	1368.0	1388.9
67.5°	1015.5	1089.8	1171.7	1242.2	1268.9
70°	876.4	946.9	1040.3	1107.0	1133.6
72.5°	746.9	815.5	908.8	975.5	1000.3
75°	609.7	682.1	781.2	847.8	880.2
77.5°	478.2	558.2	653.5	725.9	762.1
80°	356.3	426.8	529.7	609.7	642.1
82.5°	242.0	318.2	424.9	499.2	535.4
85°	148.6	228.6	327.7	398.2	423.0
87.5°	70.5	146.7	238.2	306.7	337.2
90°	9.5	81.9	167.7	234.3	259.1
92.5°	1.9	70.5	154.3	217.2	240.1
95°	1.9	70.5	152.4	213.4	236.3
97.5°	1.9	68.6	150.5	211.5	232.4
100°	1.9	66.7	148.6	207.7	230.5
102.5°	1.9	66.7	144.8	203.9	224.8
105°	1.9	64.8	142.9	200.1	221.0
107.5°	1.9	62.9	139.1	196.2	217.2
110°	1.9	59.1	137.2	190.5	211.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	57.2	133.4	186.7	205.8
115°	1.9	55.3	129.6	181.0	200.1
117.5°	1.9	53.3	123.8	175.3	194.3
120°	3.8	53.3	120.0	169.6	186.7
122.5°	3.8	51.4	114.3	161.9	179.1
125°	3.8	49.5	108.6	156.2	173.4
127.5°	3.8	47.6	102.9	148.6	163.9
130°	3.8	43.8	99.1	141.0	156.2
132.5°	3.8	41.9	93.4	131.5	146.7
135°	3.8	38.1	87.6	123.8	139.1
137.5°	3.8	36.2	81.9	116.2	129.6
140°	3.8	34.3	74.3	108.6	121.9
142.5°	3.8	30.5	68.6	101.0	112.4
145°	3.8	28.6	61.0	93.4	102.9
147.5°	3.8	24.8	55.3	85.7	95.3
150°	3.8	22.9	49.5	78.1	87.6
152.5°	3.8	21.0	43.8	68.6	78.1
155°	3.8	19.1	40.0	59.1	70.5
157.5°	3.8	17.1	34.3	51.4	62.9
160°	5.7	15.2	30.5	43.8	53.3
162.5°	5.7	13.3	24.8	36.2	47.6
165°	5.7	13.3	21.0	28.6	40.0
167.5°	5.7	11.4	17.1	22.9	32.4
170°	5.7	9.5	15.2	17.1	24.8
172.5°	5.7	7.6	11.4	11.4	13.3
175°	5.7	7.6	9.5	9.5	5.7
177.5°	5.7	5.7	5.7	5.7	3.8
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)