

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: P568162

Luminaire Tested: **8SNX-SL3-FDL-UNV-CC83-CD-3500K-HI**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568162  
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-SL3-FDL-UNV-CC83-CD-3500K-HI  
Description: 8FT 12000 LUMEN, CCT AND LUMEN SELECTABLE SNX FIXTURE WITH, 3500K, 80CRI, HI LUMEN SETTING, AND FDL LENS  
Light Source: -  
Ballast/Driver: -

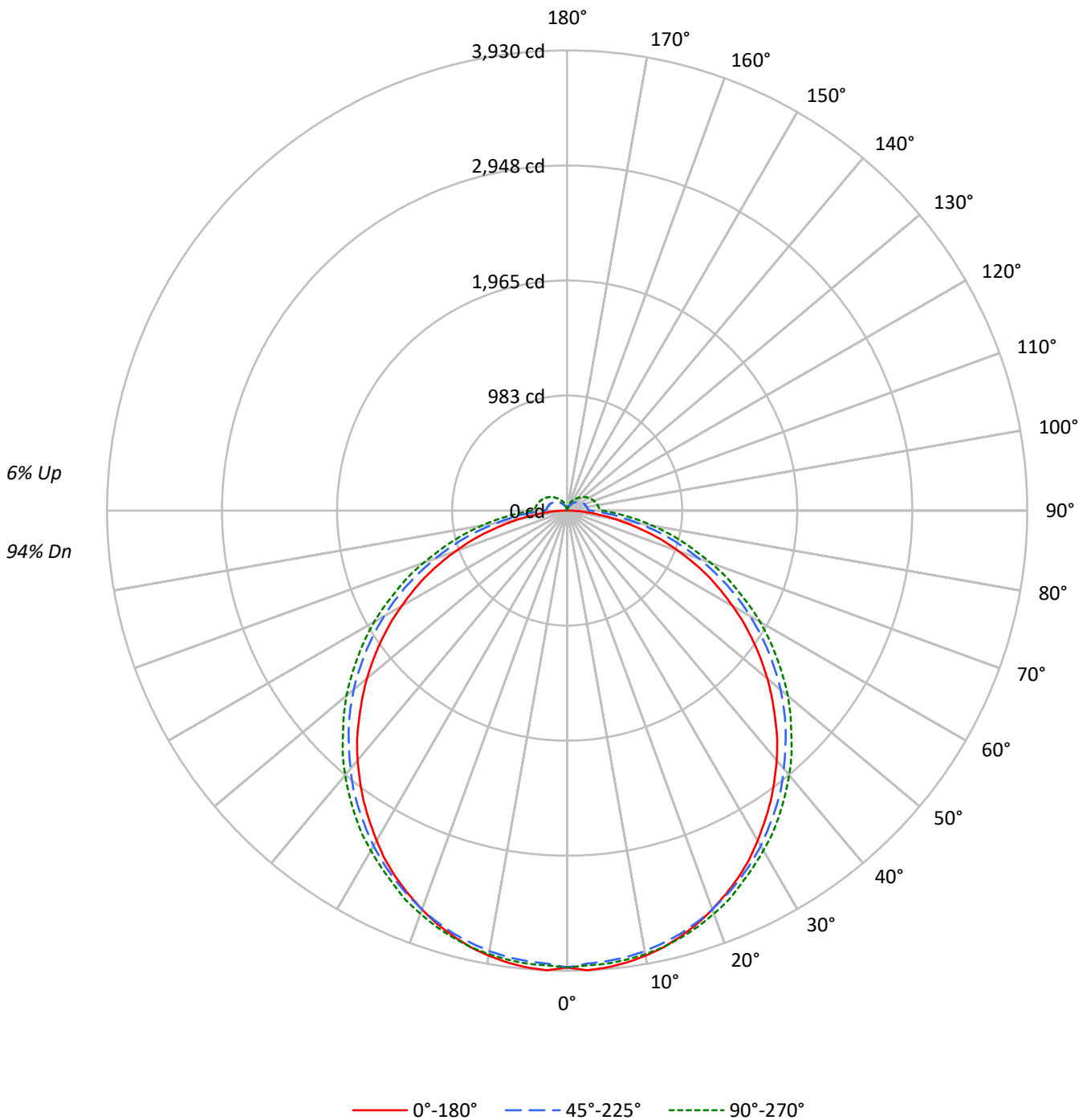
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12399.0 lumens  
Efficiency: N/A  
Efficacy: 122.3 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): 101.4  
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°	20999	20999	20999
5°	21153	20658	20683
10°	21075	20441	20423
15°	20927	20189	20131
20°	20723	19883	19788
25°	20486	19546	19382
30°	20162	19202	19007
35°	19835	18799	18616
40°	19475	18352	18175
45°	19020	17911	17662
50°	18581	17407	17194
55°	18037	16783	16541
60°	17427	16068	15901
65°	16785	15215	15017
70°	15669	14142	14100
75°	14331	12878	13005
80°	12361	11199	11789
85°	9984	9762	10360



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.0	3.0
10°-20°	1061.8	8.6
20°-30°	1609.1	13.0
30°-40°	1942.5	15.7
40°-50°	2028.5	16.4
50°-60°	1863.5	15.0
60°-70°	1473.6	11.9
70°-80°	932.6	7.5
80°-90°	400.9	3.2
90°-100°	176.4	1.4
100°-110°	157.9	1.3
110°-120°	133.4	1.1
120°-130°	104.0	0.8
130°-140°	72.0	0.6
140°-150°	43.2	0.3
150°-160°	21.1	0.2
160°-170°	7.3	0.1
170°-180°	1.1	0.0
0°-30°	3040.9	24.5
0°-40°	4983.4	40.2
0°-60°	8875.4	71.6
0°-90°	11682.6	94.2
90°-120°	467.8	3.8
90°-150°	686.9	5.5
90°-180°	716.0	5.8
0°-180°	12399.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3902	3902	3902	3902	3902	
5°	3917	3906	3864	3897	3884	372
15°	3761	3761	3741	3781	3774	1061
25°	3458	3474	3478	3524	3518	1593
35°	3030	3065	3105	3153	3164	1894
45°	2512	2573	2639	2690	2707	1940
55°	1937	2016	2099	2167	2182	1733
65°	1333	1407	1506	1576	1601	1312
75°	703	786	900	977	1014	745
85°	171	264	378	459	487	189
90°	11	94	193	270	299	14
95°	2	81	176	246	272	2
105°	2	75	165	230	255	2
115°	2	64	149	209	230	2
125°	4	57	125	180	200	4
135°	4	44	101	143	160	3
145°	4	33	70	108	119	3
155°	4	22	46	68	81	2
165°	7	15	24	33	46	2
175°	7	9	11	11	7	1
180°	7	7	7	7	7	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3901.7	3901.7	3901.7	3901.7	3901.7
2.5°	3930.3	3917.1	3873.2	3903.9	3888.6
5°	3917.1	3906.1	3864.4	3897.3	3884.2
7.5°	3892.9	3884.2	3846.8	3882.0	3868.8
10°	3860.0	3853.4	3820.5	3855.6	3846.8
12.5°	3818.3	3816.1	3783.2	3822.7	3816.1
15°	3761.2	3761.2	3741.4	3781.0	3774.4
17.5°	3699.7	3701.9	3686.6	3728.3	3723.9
20°	3625.1	3636.1	3625.1	3669.0	3664.6
22.5°	3543.8	3559.2	3554.8	3598.7	3600.9
25°	3458.2	3473.6	3478.0	3524.1	3517.5
27.5°	3363.8	3387.9	3396.7	3438.4	3436.2
30°	3254.0	3286.9	3306.7	3341.8	3352.8
32.5°	3142.0	3181.5	3205.7	3254.0	3267.2
35°	3030.0	3065.2	3104.7	3153.0	3164.0
37.5°	2907.1	2946.6	2999.3	3045.4	3058.6
40°	2784.1	2828.0	2878.5	2929.0	2948.8
42.5°	2656.8	2702.9	2757.8	2817.1	2836.8
45°	2511.9	2573.3	2639.2	2689.7	2707.3
47.5°	2373.5	2441.6	2511.9	2566.8	2586.5
50°	2233.0	2305.5	2380.1	2430.6	2461.4
52.5°	2085.9	2164.9	2239.6	2303.3	2323.0
55°	1936.6	2015.6	2099.1	2167.1	2182.5
57.5°	1791.7	1868.5	1952.0	2015.6	2046.4
60°	1633.6	1717.0	1807.0	1870.7	1903.7
62.5°	1479.9	1561.1	1657.7	1725.8	1752.2
65°	1332.8	1407.4	1506.2	1576.5	1600.7
67.5°	1170.3	1255.9	1350.3	1431.6	1462.3
70°	1010.0	1091.3	1198.8	1275.7	1306.4
72.5°	860.7	939.8	1047.3	1124.2	1152.7
75°	702.6	786.1	900.2	977.1	1014.4
77.5°	551.1	643.3	753.1	836.6	878.3
80°	410.6	491.8	610.4	702.6	739.9
82.5°	278.9	366.7	489.6	575.3	617.0
85°	171.3	263.5	377.7	458.9	487.4
87.5°	81.2	169.1	274.5	353.5	388.6
90°	11.0	94.4	193.2	270.1	298.6
92.5°	2.2	81.2	177.9	250.3	276.7
95°	2.2	81.2	175.7	245.9	272.3
97.5°	2.2	79.0	173.5	243.7	267.9
100°	2.2	76.8	171.3	239.3	265.7
102.5°	2.2	76.8	166.9	234.9	259.1
105°	2.2	74.7	164.7	230.5	254.7
107.5°	2.2	72.5	160.3	226.2	250.3
110°	2.2	68.1	158.1	219.6	243.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	65.9	153.7	215.2	237.1
115°	2.2	63.7	149.3	208.6	230.5
117.5°	2.2	61.5	142.7	202.0	224.0
120°	4.4	61.5	138.3	195.4	215.2
122.5°	4.4	59.3	131.7	186.6	206.4
125°	4.4	57.1	125.2	180.0	199.8
127.5°	4.4	54.9	118.6	171.3	188.8
130°	4.4	50.5	114.2	162.5	180.0
132.5°	4.4	48.3	107.6	151.5	169.1
135°	4.4	43.9	101.0	142.7	160.3
137.5°	4.4	41.7	94.4	133.9	149.3
140°	4.4	39.5	85.6	125.2	140.5
142.5°	4.4	35.1	79.0	116.4	129.5
145°	4.4	32.9	70.3	107.6	118.6
147.5°	4.4	28.5	63.7	98.8	109.8
150°	4.4	26.3	57.1	90.0	101.0
152.5°	4.4	24.2	50.5	79.0	90.0
155°	4.4	22.0	46.1	68.1	81.2
157.5°	4.4	19.8	39.5	59.3	72.5
160°	6.6	17.6	35.1	50.5	61.5
162.5°	6.6	15.4	28.5	41.7	54.9
165°	6.6	15.4	24.2	32.9	46.1
167.5°	6.6	13.2	19.8	26.3	37.3
170°	6.6	11.0	17.6	19.8	28.5
172.5°	6.6	8.8	13.2	13.2	15.4
175°	6.6	8.8	11.0	11.0	6.6
177.5°	6.6	6.6	6.6	6.6	4.4
180°	6.6	6.6	6.6	6.6	6.6

(END OF REPORT)