

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: P568198

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568198  
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: 8SNX-SL3-LN-UNV-CC83-CD-3500K-HI  
Description: 8FT 12000 LUMEN, CCT AND LUMEN SELECTABLE SNX FIXTURE WITH, 3500K, 80CRI, HI LUMEN SETTING, AND LN LENS  
Light Source: -  
Ballast/Driver: -

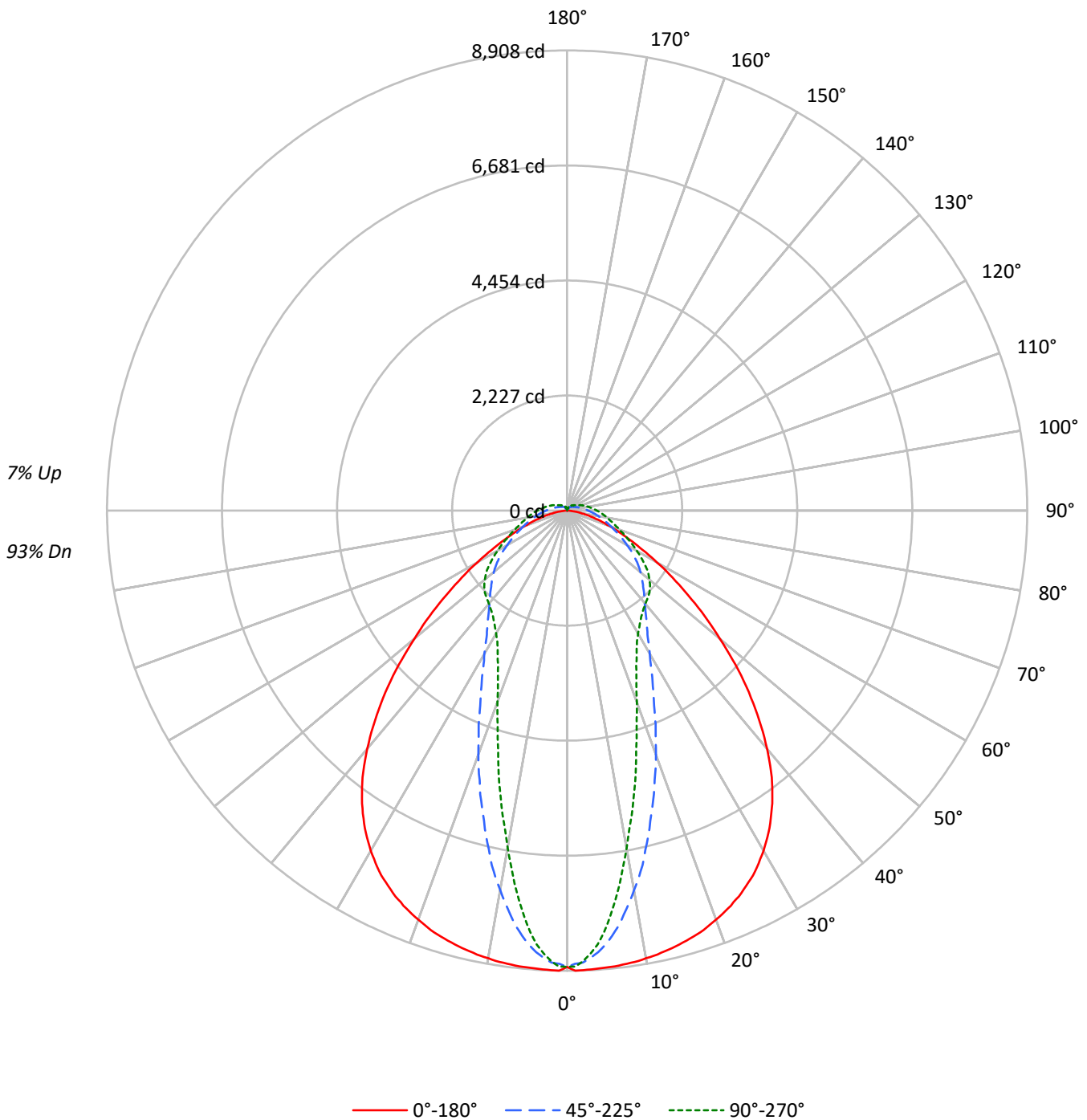
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14083.0 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
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

TEST NUMBER: P568198

CATALOG NUMBER: 8SNX-SL3-LN-UNV-CC83-CD-3500K-HI

### Luminous Intensity Polar Plot





TEST NUMBER: P568198

CATALOG NUMBER: 8SNX-SL3-LN-UNV-CC83-CD-3500K-HI

**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	67	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°	47548	47548	47548
5°	47882	43755	41821
10°	47904	37560	32447
15°	47971	30672	24319
20°	47911	24460	18199
25°	47574	19187	14444
30°	46682	15544	12320
35°	44832	13169	11207
40°	41586	11638	10607
45°	37090	10660	10280
50°	31537	9821	9711
55°	26027	8911	8869
60°	20933	7850	7779
65°	16375	6903	6770
70°	12852	6116	5988
75°	10110	5508	5456
80°	7365	5054	5072
85°	4419	4727	4864



TEST NUMBER: P568198

CATALOG NUMBER: 8SNX-SL3-LN-UNV-CC83-CD-3500K-HI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	782.4	5.6
10°-20°	1833.9	13.0
20°-30°	2176.8	15.5
30°-40°	2190.1	15.6
40°-50°	2035.8	14.5
50°-60°	1676.4	11.9
60°-70°	1181.2	8.4
70°-80°	771.7	5.5
80°-90°	492.7	3.5
90°-100°	323.1	2.3
100°-110°	219.4	1.6
110°-120°	150.3	1.1
120°-130°	104.0	0.7
130°-140°	70.0	0.5
140°-150°	43.1	0.3
150°-160°	22.4	0.2
160°-170°	8.1	0.1
170°-180°	1.4	0.0
0°-30°	4793.1	34.0
0°-40°	6983.2	49.6
0°-60°	10695.4	75.9
0°-90°	13141.1	93.3
90°-120°	692.9	4.9
90°-150°	910.0	6.5
90°-180°	942.0	6.7
0°-180°	14083.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8835	8835	8835	8835	8835	
5°	8879	8761	8444	8281	8193	845
15°	8658	7735	6222	5440	5144	2445
25°	8089	5978	3963	3329	3188	3722
35°	6923	4045	2687	2517	2502	4305
45°	4975	2664	2081	2192	2251	3819
55°	2856	1749	1609	1786	1845	2580
65°	1343	1055	1107	1247	1292	1363
75°	524	546	745	878	915	567
85°	89	251	502	650	679	111
90°	0	170	406	554	576	5
95°	0	126	340	465	487	0
105°	0	89	229	325	354	0
115°	7	74	162	236	251	6
125°	7	59	133	170	184	7
135°	7	52	103	133	140	6
145°	7	37	74	103	111	5
155°	7	30	52	74	81	3
165°	7	15	30	37	44	2
175°	15	15	15	15	7	1
180°	7	7	7	7	7	



TEST NUMBER: P568198

CATALOG NUMBER: 8SNX-SL3-LN-UNV-CC83-CD-3500K-HI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8834.7	8834.7	8834.7	8834.7	8834.7
1°	8908.5	8871.6	8775.6	8842.1	8827.3
2°	8901.1	8864.2	8753.5	8783.0	8731.4
3°	8893.7	8842.1	8672.3	8664.9	8591.1
4°	8886.4	8805.2	8569.0	8480.4	8421.4
5°	8879.0	8760.9	8443.5	8281.1	8192.6
6°	8871.6	8709.2	8281.1	8037.6	7912.1
7°	8856.8	8628.0	8111.4	7779.2	7616.9
8°	8842.1	8554.2	7897.3	7498.8	7299.5
9°	8827.3	8458.3	7683.3	7196.2	6960.0
10°	8797.8	8362.3	7461.9	6886.2	6635.2
11°	8783.0	8251.6	7247.8	6591.0	6295.7
12°	8753.5	8133.5	7019.0	6281.0	6022.6
13°	8724.0	8008.1	6738.6	6015.3	5705.3
14°	8694.5	7875.2	6495.0	5720.0	5432.2
15°	8657.6	7735.0	6221.9	5439.6	5144.3
16°	8620.6	7572.6	5978.4	5151.7	4841.7
17°	8583.7	7417.6	5749.6	4886.0	4605.6
18°	8539.5	7262.6	5483.9	4627.7	4354.6
19°	8480.4	7085.5	5269.8	4391.5	4140.6
20°	8428.7	6923.1	5026.3	4170.1	3948.7
21°	8369.7	6723.8	4782.7	3963.4	3742.0
22.5°	8281.1	6443.3	4472.7	3705.1	3498.4
23°	8236.9	6362.2	4347.2	3609.2	3432.0
24°	8177.8	6148.1	4140.6	3461.5	3284.4
25°	8089.2	5978.4	3963.4	3328.7	3188.5
26°	8008.1	5771.7	3786.3	3210.6	3070.4
27°	7926.9	5572.4	3631.3	3085.1	2967.0
28°	7823.5	5365.8	3461.5	2981.8	2878.5
29°	7712.8	5173.9	3321.3	2893.2	2812.0
30°	7602.1	4959.8	3203.2	2812.0	2745.6
32.5°	7292.1	4487.5	2900.6	2657.0	2612.8
35°	6923.1	4044.6	2686.6	2516.8	2502.1
37.5°	6509.8	3638.7	2494.7	2406.1	2420.9
40°	6022.6	3269.6	2332.3	2324.9	2354.4
42.5°	5506.0	2952.3	2206.8	2258.5	2302.8
45°	4974.6	2664.4	2081.4	2192.1	2251.1
47.5°	4421.0	2413.5	1970.6	2110.9	2177.3
50°	3860.1	2169.9	1852.6	2014.9	2081.4
52.5°	3358.2	1955.9	1734.5	1904.2	1978.0
55°	2856.3	1749.2	1609.0	1786.1	1845.2
57.5°	2420.9	1557.3	1476.1	1653.3	1697.6
60°	2014.9	1372.8	1343.3	1505.7	1557.3
62.5°	1645.9	1210.4	1217.8	1372.8	1424.5
65°	1343.3	1055.4	1107.1	1247.3	1291.6



TEST NUMBER: P568198

CATALOG NUMBER: 8SNX-SL3-LN-UNV-CC83-CD-3500K-HI

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1092.3	907.8	996.4	1144.0	1180.9
70°	863.5	775.0	907.8	1040.7	1077.6
72.5°	686.4	656.9	819.3	959.5	989.0
75°	524.0	546.2	745.4	878.3	915.2
77.5°	376.4	457.6	671.6	811.9	841.4
80°	265.7	376.4	612.6	752.8	782.4
82.5°	169.8	310.0	553.6	701.2	730.7
85°	88.6	250.9	501.9	649.5	679.0
87.5°	36.9	206.7	450.2	597.8	627.4
90°	0.0	169.8	405.9	553.6	575.7
92.5°	0.0	147.6	369.0	509.3	531.4
95°	0.0	125.5	339.5	465.0	487.1
97.5°	0.0	118.1	302.6	428.1	450.2
100°	0.0	103.3	273.1	391.2	420.7
102.5°	0.0	95.9	250.9	354.3	383.8
105°	0.0	88.6	228.8	324.8	354.3
107.5°	0.0	81.2	214.0	302.6	324.8
110°	0.0	81.2	191.9	280.5	302.6
112.5°	7.4	73.8	177.1	250.9	273.1
115°	7.4	73.8	162.4	236.2	250.9
117.5°	7.4	73.8	155.0	214.0	228.8
120°	7.4	66.4	147.6	199.3	214.0
122.5°	7.4	66.4	140.2	184.5	191.9
125°	7.4	59.0	132.9	169.8	184.5
127.5°	7.4	59.0	125.5	162.4	169.8
130°	7.4	59.0	118.1	147.6	162.4
132.5°	7.4	51.7	110.7	140.2	147.6
135°	7.4	51.7	103.3	132.9	140.2
137.5°	7.4	44.3	95.9	125.5	132.9
140°	7.4	44.3	88.6	118.1	125.5
142.5°	7.4	36.9	81.2	110.7	118.1
145°	7.4	36.9	73.8	103.3	110.7
147.5°	7.4	36.9	66.4	95.9	103.3
150°	7.4	29.5	59.0	88.6	95.9
152.5°	7.4	29.5	51.7	81.2	88.6
155°	7.4	29.5	51.7	73.8	81.2
157.5°	7.4	22.1	44.3	59.0	73.8
160°	7.4	22.1	36.9	51.7	66.4
162.5°	7.4	22.1	36.9	44.3	51.7
165°	7.4	14.8	29.5	36.9	44.3
167.5°	7.4	14.8	22.1	29.5	36.9
170°	7.4	14.8	22.1	22.1	29.5
172.5°	7.4	14.8	14.8	14.8	14.8
175°	14.8	14.8	14.8	14.8	7.4
177.5°	14.8	14.8	14.8	7.4	7.4



TEST NUMBER: P568198

CATALOG NUMBER: 8SNX-SL3-LN-UNV-CC83-CD-3500K-HI

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	7.4	7.4	7.4	7.4	7.4

(END OF REPORT)