

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: P568163

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568163  
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-LOW  
Description: 8FT 12000 LUMEN, CCT AND LUMEN SELECTABLE SNX FIXTURE WITH, 3500K, 80CRI, LOW LUMEN SETTING, AND FDL LENS  
Light Source: -  
Ballast/Driver: -

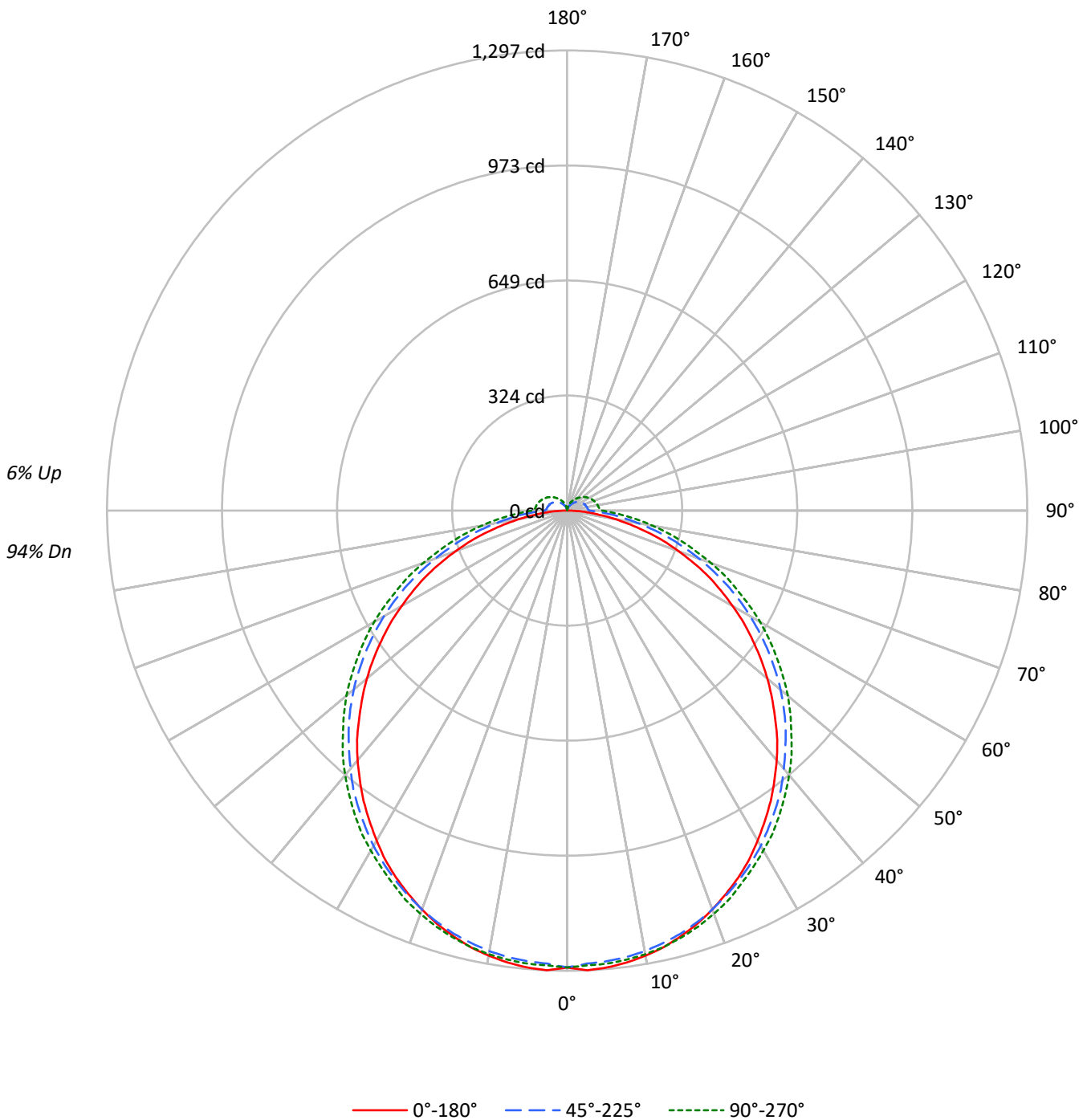
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4092.0 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): 33.462  
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°	6930	6930	6930
5°	6981	6818	6826
10°	6955	6746	6740
15°	6907	6663	6644
20°	6839	6562	6531
25°	6761	6450	6397
30°	6654	6337	6273
35°	6546	6204	6144
40°	6427	6057	5998
45°	6277	5911	5829
50°	6133	5745	5674
55°	5952	5539	5459
60°	5751	5303	5248
65°	5540	5022	4956
70°	5171	4668	4654
75°	4730	4250	4292
80°	4079	3695	3891
85°	3293	3220	3420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.1	3.0
10°-20°	350.4	8.6
20°-30°	531.1	13.0
30°-40°	641.1	15.7
40°-50°	669.4	16.4
50°-60°	615.0	15.0
60°-70°	486.4	11.9
70°-80°	307.8	7.5
80°-90°	132.3	3.2
90°-100°	58.2	1.4
100°-110°	52.1	1.3
110°-120°	44.0	1.1
120°-130°	34.3	0.8
130°-140°	23.8	0.6
140°-150°	14.2	0.3
150°-160°	7.0	0.2
160°-170°	2.4	0.1
170°-180°	0.4	0.0
0°-30°	1003.6	24.5
0°-40°	1644.7	40.2
0°-60°	2929.1	71.6
0°-90°	3855.6	94.2
90°-120°	154.4	3.8
90°-150°	226.7	5.5
90°-180°	236.0	5.8
0°-180°	4092.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1293	1289	1275	1286	1282	123
15°	1241	1241	1235	1248	1246	350
25°	1141	1146	1148	1163	1161	526
35°	1000	1012	1025	1041	1044	625
45°	829	849	871	888	894	640
55°	639	665	693	715	720	572
65°	440	464	497	520	528	433
75°	232	259	297	322	335	246
85°	56	87	125	151	161	62
90°	4	31	64	89	99	5
95°	1	27	58	81	90	1
105°	1	25	54	76	84	1
115°	1	21	49	69	76	1
125°	1	19	41	59	66	1
135°	1	14	33	47	53	1
145°	1	11	23	36	39	1
155°	1	7	15	22	27	1
165°	2	5	8	11	15	1
175°	2	3	4	4	2	0
180°	2	2	2	2	2	



TEST NUMBER: P568163

CATALOG NUMBER: 8SNX-SL3-FDL-UNV-CC83-CD-3500K-LOW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1287.7	1287.7	1287.7	1287.7	1287.7
2.5°	1297.1	1292.7	1278.3	1288.4	1283.3
5°	1292.7	1289.1	1275.4	1286.2	1281.9
7.5°	1284.8	1281.9	1269.6	1281.2	1276.8
10°	1273.9	1271.7	1260.9	1272.5	1269.6
12.5°	1260.1	1259.4	1248.5	1261.6	1259.4
15°	1241.3	1241.3	1234.8	1247.8	1245.6
17.5°	1221.0	1221.7	1216.7	1230.4	1229.0
20°	1196.4	1200.0	1196.4	1210.9	1209.4
22.5°	1169.6	1174.6	1173.2	1187.7	1188.4
25°	1141.3	1146.4	1147.8	1163.0	1160.9
27.5°	1110.1	1118.1	1121.0	1134.8	1134.1
30°	1073.9	1084.8	1091.3	1102.9	1106.5
32.5°	1037.0	1050.0	1058.0	1073.9	1078.3
35°	1000.0	1011.6	1024.6	1040.6	1044.2
37.5°	959.4	972.5	989.9	1005.1	1009.4
40°	918.8	933.3	950.0	966.7	973.2
42.5°	876.8	892.0	910.1	929.7	936.2
45°	829.0	849.3	871.0	887.7	893.5
47.5°	783.3	805.8	829.0	847.1	853.6
50°	737.0	760.9	785.5	802.2	812.3
52.5°	688.4	714.5	739.1	760.1	766.7
55°	639.1	665.2	692.8	715.2	720.3
57.5°	591.3	616.7	644.2	665.2	675.4
60°	539.1	566.7	596.4	617.4	628.3
62.5°	488.4	515.2	547.1	569.6	578.3
65°	439.9	464.5	497.1	520.3	528.3
67.5°	386.2	414.5	445.7	472.5	482.6
70°	333.3	360.1	395.7	421.0	431.2
72.5°	284.1	310.1	345.7	371.0	380.4
75°	231.9	259.4	297.1	322.5	334.8
77.5°	181.9	212.3	248.5	276.1	289.9
80°	135.5	162.3	201.4	231.9	244.2
82.5°	92.0	121.0	161.6	189.9	203.6
85°	56.5	87.0	124.6	151.4	160.9
87.5°	26.8	55.8	90.6	116.7	128.3
90°	3.6	31.2	63.8	89.1	98.6
92.5°	0.7	26.8	58.7	82.6	91.3
95°	0.7	26.8	58.0	81.2	89.9
97.5°	0.7	26.1	57.2	80.4	88.4
100°	0.7	25.4	56.5	79.0	87.7
102.5°	0.7	25.4	55.1	77.5	85.5
105°	0.7	24.6	54.3	76.1	84.1
107.5°	0.7	23.9	52.9	74.6	82.6
110°	0.7	22.5	52.2	72.5	80.4



TEST NUMBER: P568163

CATALOG NUMBER: 8SNX-SL3-FDL-UNV-CC83-CD-3500K-LOW

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	21.7	50.7	71.0	78.3
115°	0.7	21.0	49.3	68.8	76.1
117.5°	0.7	20.3	47.1	66.7	73.9
120°	1.4	20.3	45.7	64.5	71.0
122.5°	1.4	19.6	43.5	61.6	68.1
125°	1.4	18.8	41.3	59.4	65.9
127.5°	1.4	18.1	39.1	56.5	62.3
130°	1.4	16.7	37.7	53.6	59.4
132.5°	1.4	15.9	35.5	50.0	55.8
135°	1.4	14.5	33.3	47.1	52.9
137.5°	1.4	13.8	31.2	44.2	49.3
140°	1.4	13.0	28.3	41.3	46.4
142.5°	1.4	11.6	26.1	38.4	42.8
145°	1.4	10.9	23.2	35.5	39.1
147.5°	1.4	9.4	21.0	32.6	36.2
150°	1.4	8.7	18.8	29.7	33.3
152.5°	1.4	8.0	16.7	26.1	29.7
155°	1.4	7.2	15.2	22.5	26.8
157.5°	1.4	6.5	13.0	19.6	23.9
160°	2.2	5.8	11.6	16.7	20.3
162.5°	2.2	5.1	9.4	13.8	18.1
165°	2.2	5.1	8.0	10.9	15.2
167.5°	2.2	4.3	6.5	8.7	12.3
170°	2.2	3.6	5.8	6.5	9.4
172.5°	2.2	2.9	4.3	4.3	5.1
175°	2.2	2.9	3.6	3.6	2.2
177.5°	2.2	2.2	2.2	2.2	1.4
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)