

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: P568164

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568164  
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-MED  
Description: 8FT 12000 LUMEN, CCT AND LUMEN SELECTABLE SNX FIXTURE WITH, 3500K, 80CRI, MED LUMEN SETTING, AND FDL LENS  
Light Source: -  
Ballast/Driver: -

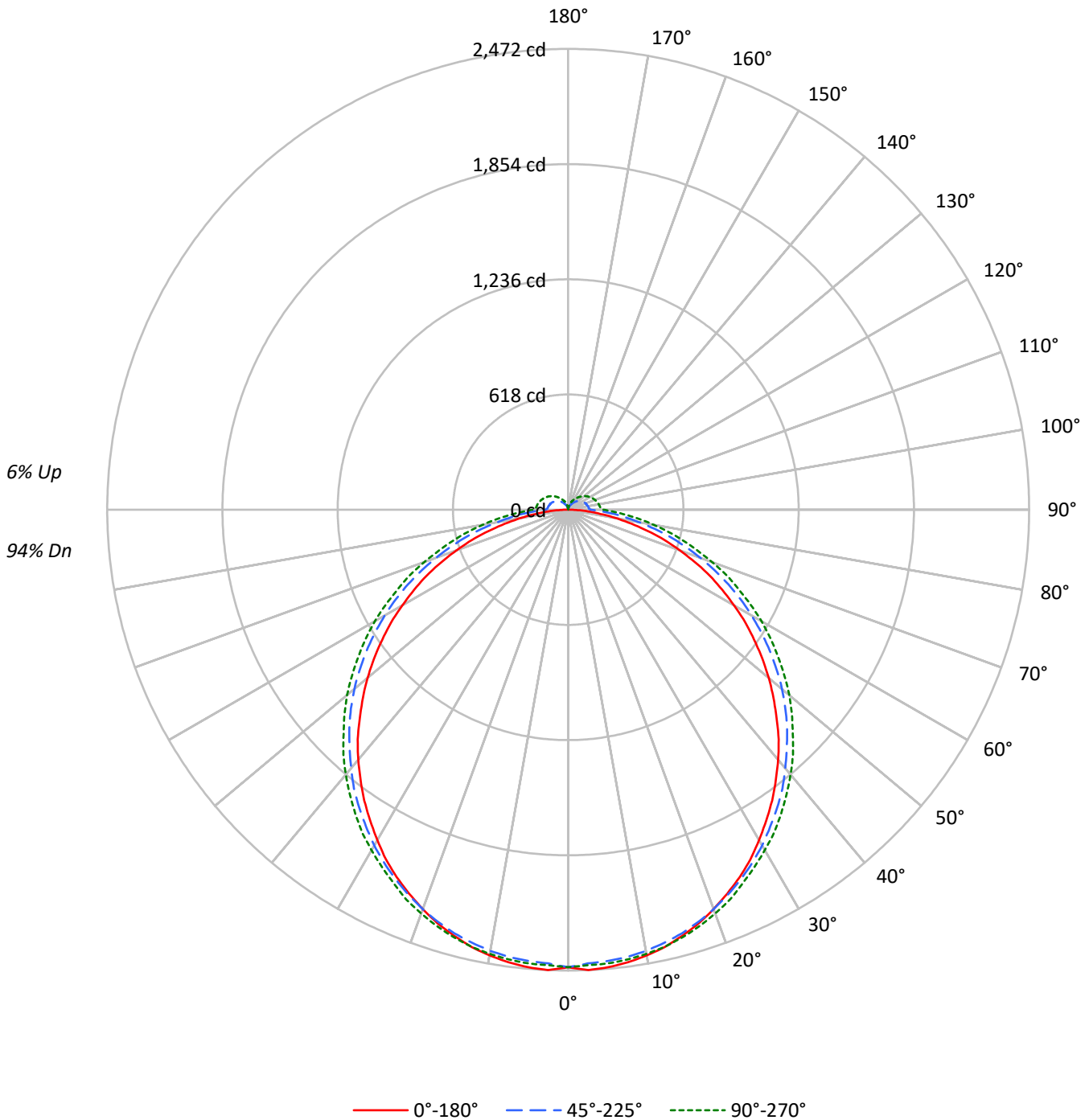
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7799.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 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): 66.924  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	13208	13208	13208
5°	13305	12994	13009
10°	13257	12857	12846
15°	13163	12699	12663
20°	13035	12506	12447
25°	12886	12294	12191
30°	12682	12078	11955
35°	12477	11825	11709
40°	12250	11543	11432
45°	11963	11266	11110
50°	11688	10949	10815
55°	11345	10556	10405
60°	10961	10107	10002
65°	10558	9571	9445
70°	9856	8896	8869
75°	9014	8100	8180
80°	7776	7044	7415
85°	6277	6139	6517



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.7	3.0
10°-20°	667.9	8.6
20°-30°	1012.1	13.0
30°-40°	1221.8	15.7
40°-50°	1275.9	16.4
50°-60°	1172.2	15.0
60°-70°	926.9	11.9
70°-80°	586.6	7.5
80°-90°	252.2	3.2
90°-100°	111.0	1.4
100°-110°	99.3	1.3
110°-120°	83.9	1.1
120°-130°	65.4	0.8
130°-140°	45.3	0.6
140°-150°	27.2	0.3
150°-160°	13.3	0.2
160°-170°	4.6	0.1
170°-180°	0.7	0.0
0°-30°	1912.8	24.5
0°-40°	3134.6	40.2
0°-60°	5582.7	71.6
0°-90°	7348.4	94.2
90°-120°	294.2	3.8
90°-150°	432.1	5.5
90°-180°	451.0	5.8
0°-180°	7799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2454	2454	2454	2454	2454	
5°	2464	2457	2431	2451	2443	234
15°	2366	2366	2353	2378	2374	667
25°	2175	2185	2188	2217	2212	1002
35°	1906	1928	1953	1983	1990	1192
45°	1580	1619	1660	1692	1703	1220
55°	1218	1268	1320	1363	1373	1090
65°	838	885	947	992	1007	826
75°	442	494	566	615	638	468
85°	108	166	238	289	307	119
90°	7	59	122	170	188	9
95°	1	51	110	155	171	1
105°	1	47	104	145	160	1
115°	1	40	94	131	145	2
125°	3	36	79	113	126	3
135°	3	28	64	90	101	2
145°	3	21	44	68	75	2
155°	3	14	29	43	51	1
165°	4	10	15	21	29	1
175°	4	6	7	7	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2454.2	2454.2	2454.2	2454.2	2454.2
2.5°	2472.2	2463.9	2436.2	2455.6	2445.9
5°	2463.9	2457.0	2430.7	2451.4	2443.1
7.5°	2448.7	2443.1	2419.7	2441.8	2433.5
10°	2428.0	2423.8	2403.1	2425.2	2419.7
12.5°	2401.7	2400.3	2379.6	2404.5	2400.3
15°	2365.8	2365.8	2353.4	2378.2	2374.1
17.5°	2327.1	2328.5	2318.9	2345.1	2342.3
20°	2280.2	2287.1	2280.2	2307.8	2305.0
22.5°	2229.1	2238.7	2236.0	2263.6	2265.0
25°	2175.2	2184.9	2187.6	2216.7	2212.5
27.5°	2115.8	2131.0	2136.5	2162.8	2161.4
30°	2046.8	2067.5	2079.9	2102.0	2108.9
32.5°	1976.3	2001.2	2016.4	2046.8	2055.1
35°	1905.9	1928.0	1952.9	1983.2	1990.2
37.5°	1828.6	1853.4	1886.6	1915.6	1923.9
40°	1751.2	1778.8	1810.6	1842.4	1854.8
42.5°	1671.1	1700.1	1734.7	1771.9	1784.4
45°	1580.0	1618.6	1660.1	1691.8	1702.9
47.5°	1493.0	1535.8	1580.0	1614.5	1626.9
50°	1404.6	1450.1	1497.1	1528.9	1548.2
52.5°	1312.0	1361.8	1408.7	1448.8	1461.2
55°	1218.1	1267.8	1320.3	1363.1	1372.8
57.5°	1127.0	1175.3	1227.8	1267.8	1287.2
60°	1027.5	1080.0	1136.6	1176.7	1197.4
62.5°	930.9	982.0	1042.7	1085.5	1102.1
65°	838.3	885.3	947.4	991.6	1006.8
67.5°	736.1	790.0	849.4	900.5	919.8
70°	635.3	686.4	754.1	802.4	821.7
72.5°	541.4	591.1	658.8	707.1	725.1
75°	441.9	494.4	566.2	614.6	638.1
77.5°	346.7	404.7	473.7	526.2	552.4
80°	258.3	309.4	383.9	441.9	465.4
82.5°	175.4	230.6	308.0	361.8	388.1
85°	107.7	165.7	237.5	288.6	306.6
87.5°	51.1	106.3	172.6	222.4	244.5
90°	6.9	59.4	121.5	169.9	187.8
92.5°	1.4	51.1	111.9	157.4	174.0
95°	1.4	51.1	110.5	154.7	171.3
97.5°	1.4	49.7	109.1	153.3	168.5
100°	1.4	48.3	107.7	150.5	167.1
102.5°	1.4	48.3	105.0	147.8	163.0
105°	1.4	47.0	103.6	145.0	160.2
107.5°	1.4	45.6	100.8	142.3	157.4
110°	1.4	42.8	99.4	138.1	153.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	41.4	96.7	135.3	149.2
115°	1.4	40.1	93.9	131.2	145.0
117.5°	1.4	38.7	89.8	127.1	140.9
120°	2.8	38.7	87.0	122.9	135.3
122.5°	2.8	37.3	82.9	117.4	129.8
125°	2.8	35.9	78.7	113.2	125.7
127.5°	2.8	34.5	74.6	107.7	118.8
130°	2.8	31.8	71.8	102.2	113.2
132.5°	2.8	30.4	67.7	95.3	106.3
135°	2.8	27.6	63.5	89.8	100.8
137.5°	2.8	26.2	59.4	84.2	93.9
140°	2.8	24.9	53.9	78.7	88.4
142.5°	2.8	22.1	49.7	73.2	81.5
145°	2.8	20.7	44.2	67.7	74.6
147.5°	2.8	18.0	40.1	62.1	69.1
150°	2.8	16.6	35.9	56.6	63.5
152.5°	2.8	15.2	31.8	49.7	56.6
155°	2.8	13.8	29.0	42.8	51.1
157.5°	2.8	12.4	24.9	37.3	45.6
160°	4.1	11.0	22.1	31.8	38.7
162.5°	4.1	9.7	18.0	26.2	34.5
165°	4.1	9.7	15.2	20.7	29.0
167.5°	4.1	8.3	12.4	16.6	23.5
170°	4.1	6.9	11.0	12.4	18.0
172.5°	4.1	5.5	8.3	8.3	9.7
175°	4.1	5.5	6.9	6.9	4.1
177.5°	4.1	4.1	4.1	4.1	2.8
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)