

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: P567973

Luminaire Tested: **8SNX-74SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567973  
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-74SL-FDL-UNV-L850-CD  
Description: 8FT 7400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

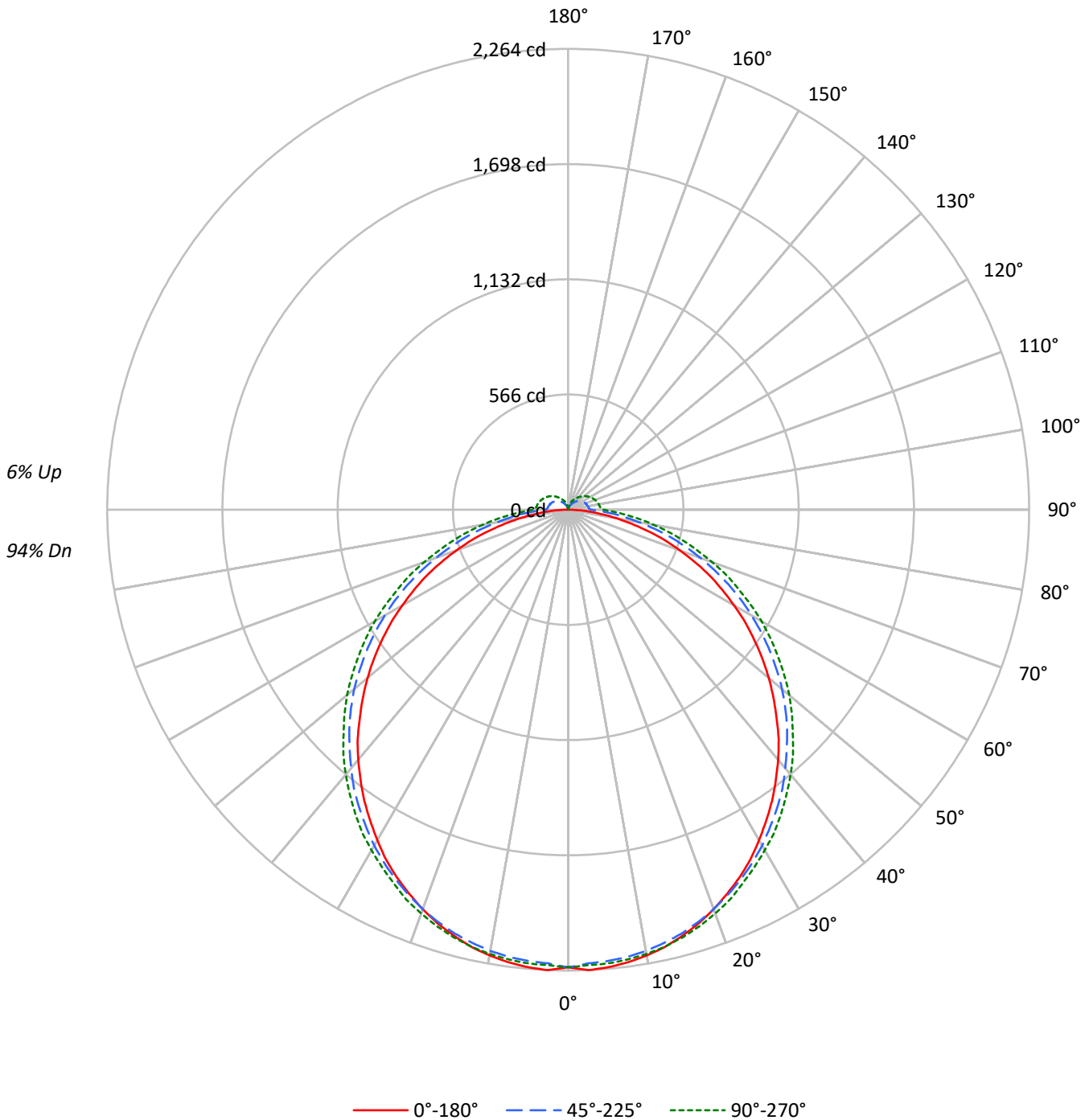
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7143.0 lumens  
Efficiency: N/A  
Efficacy: 148.8 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): 48  
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: P567973  
CATALOG NUMBER: 8SNX-74SL-FDL-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P567973

CATALOG NUMBER: 8SNX-74SL-FDL-UNV-L850-CD

**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°	12098	12098	12098
5°	12186	11901	11915
10°	12141	11776	11765
15°	12056	11631	11597
20°	11938	11454	11400
25°	11802	11260	11166
30°	11615	11062	10950
35°	11427	10830	10725
40°	11219	10572	10471
45°	10957	10318	10175
50°	10704	10028	9905
55°	10391	9669	9529
60°	10039	9257	9160
65°	9670	8765	8651
70°	9027	8147	8123
75°	8257	7419	7492
80°	7120	6451	6792
85°	5752	5624	5969



TEST NUMBER: P567973

CATALOG NUMBER: 8SNX-74SL-FDL-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.2	3.0
10°-20°	611.7	8.6
20°-30°	927.0	13.0
30°-40°	1119.1	15.7
40°-50°	1168.6	16.4
50°-60°	1073.6	15.0
60°-70°	848.9	11.9
70°-80°	537.3	7.5
80°-90°	231.0	3.2
90°-100°	101.7	1.4
100°-110°	91.0	1.3
110°-120°	76.8	1.1
120°-130°	59.9	0.8
130°-140°	41.5	0.6
140°-150°	24.9	0.3
150°-160°	12.1	0.2
160°-170°	4.2	0.1
170°-180°	0.6	0.0
0°-30°	1751.9	24.5
0°-40°	2870.9	40.2
0°-60°	5113.1	71.6
0°-90°	6730.3	94.2
90°-120°	269.5	3.8
90°-150°	395.7	5.5
90°-180°	413.0	5.8
0°-180°	7143.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2257	2250	2226	2245	2238	214
15°	2167	2167	2155	2178	2174	611
25°	1992	2001	2004	2030	2026	917
35°	1746	1766	1789	1816	1823	1091
45°	1447	1482	1520	1550	1560	1118
55°	1116	1161	1209	1248	1257	998
65°	768	811	868	908	922	756
75°	405	453	519	563	584	429
85°	99	152	218	264	281	109
90°	6	54	111	156	172	8
95°	1	47	101	142	157	1
105°	1	43	95	133	147	1
115°	1	37	86	120	133	1
125°	2	33	72	104	115	2
135°	2	25	58	82	92	2
145°	2	19	40	62	68	2
155°	2	13	27	39	47	1
165°	4	9	14	19	27	1
175°	4	5	6	6	4	0
180°	4	4	4	4	4	



TEST NUMBER: P567973

CATALOG NUMBER: 8SNX-74SL-FDL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2247.8	2247.8	2247.8	2247.8	2247.8
2.5°	2264.2	2256.6	2231.3	2249.0	2240.2
5°	2256.6	2250.3	2226.3	2245.2	2237.6
7.5°	2242.7	2237.6	2216.1	2236.4	2228.8
10°	2223.7	2219.9	2201.0	2221.2	2216.1
12.5°	2199.7	2198.4	2179.5	2202.2	2198.4
15°	2166.8	2166.8	2155.4	2178.2	2174.4
17.5°	2131.4	2132.7	2123.8	2147.8	2145.3
20°	2088.4	2094.7	2088.4	2113.7	2111.2
22.5°	2041.6	2050.4	2047.9	2073.2	2074.5
25°	1992.3	2001.1	2003.6	2030.2	2026.4
27.5°	1937.9	1951.8	1956.8	1980.9	1979.6
30°	1874.6	1893.6	1905.0	1925.2	1931.5
32.5°	1810.1	1832.9	1846.8	1874.6	1882.2
35°	1745.6	1765.8	1788.6	1816.4	1822.8
37.5°	1674.8	1697.5	1727.9	1754.4	1762.0
40°	1603.9	1629.2	1658.3	1687.4	1698.8
42.5°	1530.6	1557.1	1588.7	1622.9	1634.3
45°	1447.1	1482.5	1520.4	1549.5	1559.6
47.5°	1367.4	1406.6	1447.1	1478.7	1490.1
50°	1286.4	1328.2	1371.2	1400.3	1418.0
52.5°	1201.7	1247.2	1290.2	1326.9	1338.3
55°	1115.7	1161.2	1209.3	1248.5	1257.3
57.5°	1032.2	1076.4	1124.5	1161.2	1178.9
60°	941.1	989.2	1041.0	1077.7	1096.7
62.5°	852.6	899.4	955.0	994.2	1009.4
65°	767.8	810.8	867.7	908.2	922.1
67.5°	674.2	723.5	777.9	824.7	842.4
70°	581.9	628.7	690.6	734.9	752.6
72.5°	495.8	541.4	603.4	647.6	664.1
75°	404.8	452.8	518.6	562.9	584.4
77.5°	317.5	370.6	433.9	481.9	506.0
80°	236.5	283.3	351.6	404.8	426.3
82.5°	160.6	211.2	282.1	331.4	355.4
85°	98.7	151.8	217.6	264.4	280.8
87.5°	46.8	97.4	158.1	203.7	223.9
90°	6.3	54.4	111.3	155.6	172.0
92.5°	1.3	46.8	102.5	144.2	159.4
95°	1.3	46.8	101.2	141.7	156.9
97.5°	1.3	45.5	99.9	140.4	154.3
100°	1.3	44.3	98.7	137.9	153.1
102.5°	1.3	44.3	96.1	135.3	149.3
105°	1.3	43.0	94.9	132.8	146.7
107.5°	1.3	41.7	92.3	130.3	144.2
110°	1.3	39.2	91.1	126.5	140.4



TEST NUMBER: P567973

CATALOG NUMBER: 8SNX-74SL-FDL-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	37.9	88.5	124.0	136.6
115°	1.3	36.7	86.0	120.2	132.8
117.5°	1.3	35.4	82.2	116.4	129.0
120°	2.5	35.4	79.7	112.6	124.0
122.5°	2.5	34.2	75.9	107.5	118.9
125°	2.5	32.9	72.1	103.7	115.1
127.5°	2.5	31.6	68.3	98.7	108.8
130°	2.5	29.1	65.8	93.6	103.7
132.5°	2.5	27.8	62.0	87.3	97.4
135°	2.5	25.3	58.2	82.2	92.3
137.5°	2.5	24.0	54.4	77.2	86.0
140°	2.5	22.8	49.3	72.1	81.0
142.5°	2.5	20.2	45.5	67.0	74.6
145°	2.5	19.0	40.5	62.0	68.3
147.5°	2.5	16.4	36.7	56.9	63.2
150°	2.5	15.2	32.9	51.9	58.2
152.5°	2.5	13.9	29.1	45.5	51.9
155°	2.5	12.6	26.6	39.2	46.8
157.5°	2.5	11.4	22.8	34.2	41.7
160°	3.8	10.1	20.2	29.1	35.4
162.5°	3.8	8.9	16.4	24.0	31.6
165°	3.8	8.9	13.9	19.0	26.6
167.5°	3.8	7.6	11.4	15.2	21.5
170°	3.8	6.3	10.1	11.4	16.4
172.5°	3.8	5.1	7.6	7.6	8.9
175°	3.8	5.1	6.3	6.3	3.8
177.5°	3.8	3.8	3.8	3.8	2.5
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)