

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: P566780

Luminaire Tested: **4SNX-74HL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-74HL-LN-UNV-L940-CD  
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

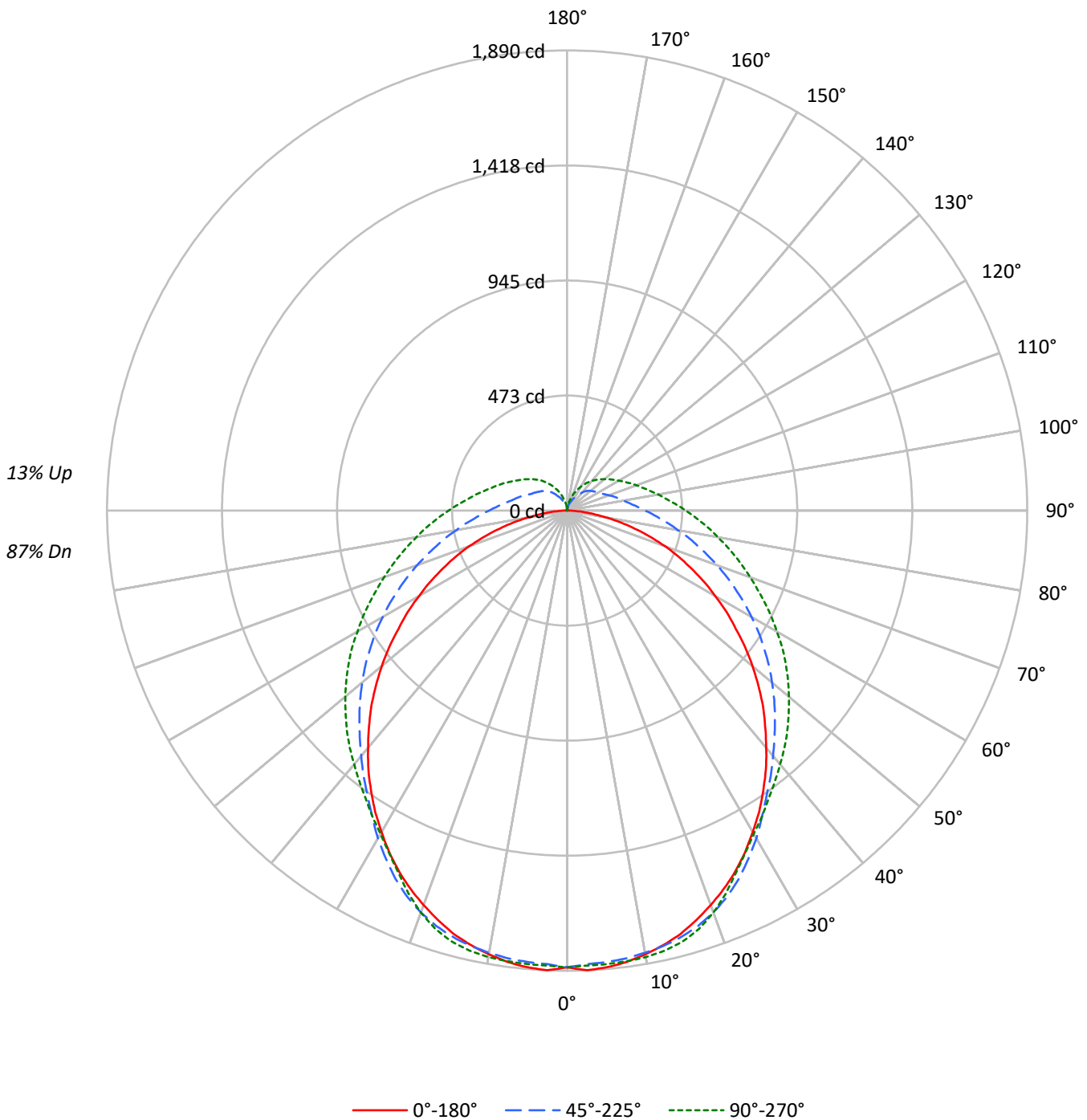
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6772.0 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 51.8  
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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	20193	20193	20193
5°	20271	19264	19094
10°	20081	18517	18213
15°	19839	17811	17324
20°	19457	17019	16192
25°	19047	16061	14864
30°	18505	14987	13755
35°	17927	13894	12928
40°	17271	13017	12259
45°	16627	12238	11682
50°	15861	11521	11099
55°	14967	10803	10529
60°	14107	10084	9933
65°	13154	9361	9387
70°	12061	8683	8893
75°	10373	8021	8487
80°	8173	7449	8142
85°	5471	7043	7944



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.2	2.6
10°-20°	512.4	7.6
20°-30°	763.0	11.3
30°-40°	900.3	13.3
40°-50°	938.9	13.9
50°-60°	882.3	13.0
60°-70°	745.1	11.0
70°-80°	563.0	8.3
80°-90°	388.1	5.7
90°-100°	271.6	4.0
100°-110°	202.7	3.0
110°-120°	152.8	2.3
120°-130°	113.9	1.7
130°-140°	80.0	1.2
140°-150°	48.4	0.7
150°-160°	23.1	0.3
160°-170°	7.4	0.1
170°-180°	0.9	0.0
0°-30°	1453.6	21.5
0°-40°	2353.9	34.8
0°-60°	4175.1	61.7
0°-90°	5871.3	86.7
90°-120°	627.0	9.3
90°-150°	869.3	12.8
90°-180°	901.0	13.3
0°-180°	6772.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1883	1879	1861	1875	1870	179
15°	1800	1808	1813	1836	1832	507
25°	1635	1668	1668	1653	1641	752
35°	1404	1456	1428	1440	1443	878
45°	1138	1194	1207	1256	1279	876
55°	845	917	987	1067	1095	758
65°	563	652	762	862	896	559
75°	288	400	553	669	712	307
85°	65	206	384	510	554	73
90°	1	146	320	443	487	5
95°	1	114	271	388	428	1
105°	2	82	209	303	338	2
115°	2	70	162	241	272	2
125°	3	60	137	198	223	3
135°	3	46	114	161	180	3
145°	5	33	79	123	138	3
155°	5	22	48	78	91	2
165°	6	14	25	34	46	2
175°	6	6	7	7	3	1
180°	3	3	3	3	3	



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CATALOG NUMBER: 4SNX-74HL-LN-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1876.0	1876.0	1876.0	1876.0	1876.0
2.5°	1889.7	1885.2	1864.5	1876.0	1870.2
5°	1882.9	1879.4	1861.0	1874.8	1870.2
7.5°	1870.2	1869.1	1855.3	1871.4	1866.8
10°	1850.7	1854.2	1843.8	1865.6	1862.2
12.5°	1827.8	1834.6	1831.2	1855.3	1851.9
15°	1800.2	1808.2	1812.8	1835.8	1832.3
17.5°	1763.5	1778.4	1788.7	1807.1	1801.3
20°	1724.4	1745.1	1756.6	1765.8	1756.6
22.5°	1681.9	1709.5	1716.4	1711.8	1702.6
25°	1634.9	1668.2	1668.2	1653.2	1640.6
27.5°	1582.1	1623.4	1611.9	1594.7	1584.4
30°	1524.7	1574.0	1554.5	1535.0	1532.7
32.5°	1467.3	1518.9	1490.2	1485.6	1489.1
35°	1404.1	1455.8	1428.2	1439.7	1443.1
37.5°	1341.0	1392.6	1374.3	1391.5	1401.8
40°	1272.1	1327.2	1315.7	1346.7	1360.5
42.5°	1204.3	1261.7	1260.6	1300.8	1321.4
45°	1137.8	1194.0	1206.6	1256.0	1279.0
47.5°	1065.4	1122.8	1153.8	1211.2	1234.2
50°	994.2	1056.2	1098.7	1163.0	1189.4
52.5°	920.8	986.2	1044.8	1115.9	1143.5
55°	845.0	917.3	987.4	1066.6	1095.3
57.5°	777.3	850.7	933.4	1014.9	1048.2
60°	702.6	784.1	874.8	960.9	994.2
62.5°	634.9	718.7	819.7	910.4	946.0
65°	562.6	652.1	762.3	862.2	895.5
67.5°	496.0	587.8	708.4	809.4	846.1
70°	427.1	524.7	655.6	762.3	800.2
72.5°	355.9	459.2	602.7	716.4	755.4
75°	288.2	399.5	553.4	669.3	711.8
77.5°	225.0	342.1	508.6	628.0	669.3
80°	163.0	290.5	461.5	585.5	628.0
82.5°	107.9	245.7	423.6	547.6	592.4
85°	65.4	205.5	383.5	509.7	554.5
87.5°	29.9	172.2	351.3	476.5	520.1
90°	1.1	145.8	320.3	443.2	486.8
92.5°	1.1	127.4	295.1	414.5	456.9
95°	1.1	113.7	270.9	388.1	428.2
97.5°	1.1	104.5	252.6	362.8	401.8
100°	1.1	95.3	234.2	339.8	380.0
102.5°	2.3	87.3	220.4	319.2	357.1
105°	2.3	81.5	209.0	303.1	337.5
107.5°	2.3	78.1	196.3	287.0	319.2
110°	2.3	74.6	182.5	270.9	303.1



TEST NUMBER: P566780

CATALOG NUMBER: 4SNX-74HL-LN-UNV-L940-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	72.3	172.2	257.2	288.2
115°	2.3	70.0	161.9	241.1	272.1
117.5°	2.3	68.9	156.1	228.5	258.3
120°	3.4	65.4	149.3	217.0	245.7
122.5°	3.4	62.0	142.4	207.8	233.1
125°	3.4	59.7	136.6	197.5	222.7
127.5°	3.4	56.3	130.9	188.3	211.2
130°	3.4	52.8	126.3	179.1	200.9
132.5°	3.4	49.4	120.5	169.9	190.6
135°	3.4	45.9	113.7	160.7	180.2
137.5°	3.4	42.5	106.8	151.5	169.9
140°	3.4	39.0	97.6	142.4	159.6
142.5°	3.4	35.6	88.4	133.2	148.1
145°	4.6	33.3	79.2	122.8	137.8
147.5°	4.6	29.9	70.0	112.5	125.1
150°	4.6	27.6	63.1	102.2	113.7
152.5°	4.6	24.1	56.3	90.7	102.2
155°	4.6	21.8	48.2	78.1	90.7
157.5°	4.6	19.5	41.3	65.4	79.2
160°	4.6	18.4	35.6	54.0	67.7
162.5°	5.7	16.1	29.9	43.6	56.3
165°	5.7	13.8	25.3	34.4	45.9
167.5°	5.7	11.5	20.7	26.4	35.6
170°	5.7	9.2	16.1	18.4	27.6
172.5°	5.7	6.9	11.5	12.6	13.8
175°	5.7	5.7	6.9	6.9	3.4
177.5°	5.7	5.7	4.6	3.4	1.1
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)