

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: P566776

Luminaire Tested: **4SNX-74HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566776  
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-L840-CD  
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

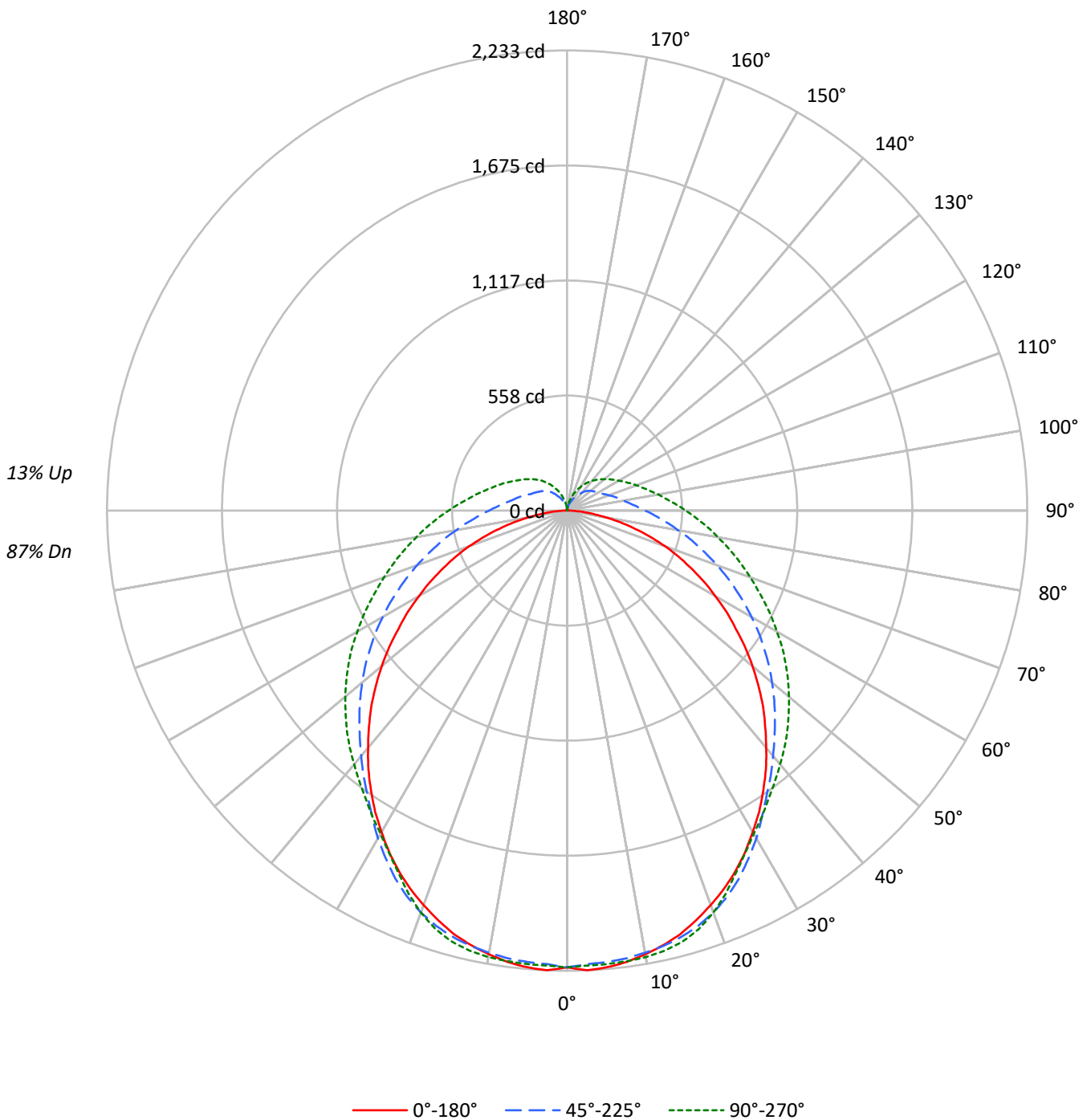
Lumens per Lamp: N/A  
Luminaire Lumens: 8001.0 lumens  
Efficiency: N/A  
Efficacy: 154.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

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

TEST NUMBER: P566776

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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	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°	23857	23857	23857
5°	23950	22761	22559
10°	23725	21878	21518
15°	23440	21043	20468
20°	22989	20107	19131
25°	22504	18976	17562
30°	21864	17707	16251
35°	21181	16416	15274
40°	20404	15379	14484
45°	19644	14459	13801
50°	18741	13612	13114
55°	17682	12762	12440
60°	16667	11915	11736
65°	15541	11060	11091
70°	14249	10258	10507
75°	12255	9476	10027
80°	9657	8801	9620
85°	6467	8321	9387



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.6	2.6
10°-20°	605.4	7.6
20°-30°	901.5	11.3
30°-40°	1063.7	13.3
40°-50°	1109.3	13.9
50°-60°	1042.4	13.0
60°-70°	880.3	11.0
70°-80°	665.2	8.3
80°-90°	458.5	5.7
90°-100°	320.9	4.0
100°-110°	239.4	3.0
110°-120°	180.5	2.3
120°-130°	134.6	1.7
130°-140°	94.5	1.2
140°-150°	57.1	0.7
150°-160°	27.3	0.3
160°-170°	8.8	0.1
170°-180°	1.0	0.0
0°-30°	1717.4	21.5
0°-40°	2781.1	34.8
0°-60°	4932.8	61.7
0°-90°	6936.8	86.7
90°-120°	740.8	9.3
90°-150°	1027.1	12.8
90°-180°	1064.0	13.3
0°-180°	8001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2216	2216	2216	2216	2216	
5°	2225	2220	2199	2215	2210	211
15°	2127	2136	2142	2169	2165	599
25°	1932	1971	1971	1953	1938	889
35°	1659	1720	1687	1701	1705	1037
45°	1344	1411	1426	1484	1511	1035
55°	998	1084	1166	1260	1294	896
65°	665	770	901	1019	1058	660
75°	340	472	654	791	841	363
85°	77	243	453	602	655	87
90°	1	172	378	524	575	5
95°	1	134	320	458	506	1
105°	3	96	247	358	399	3
115°	3	83	191	285	322	3
125°	4	70	161	233	263	4
135°	4	54	134	190	213	3
145°	5	39	94	145	163	3
155°	5	26	57	92	107	2
165°	7	16	30	41	54	2
175°	7	7	8	8	4	1
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-74HL-LN-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2216.4	2216.4	2216.4	2216.4	2216.4
2.5°	2232.7	2227.3	2202.9	2216.4	2209.6
5°	2224.6	2220.5	2198.8	2215.1	2209.6
7.5°	2209.6	2208.3	2192.0	2211.0	2205.6
10°	2186.6	2190.7	2178.4	2204.2	2200.1
12.5°	2159.5	2167.6	2163.5	2192.0	2187.9
15°	2126.9	2136.4	2141.8	2169.0	2164.9
17.5°	2083.5	2101.1	2113.3	2135.0	2128.3
20°	2037.4	2061.8	2075.4	2086.2	2075.4
22.5°	1987.2	2019.7	2027.9	2022.5	2011.6
25°	1931.6	1970.9	1970.9	1953.3	1938.4
27.5°	1869.2	1918.0	1904.4	1884.1	1871.9
30°	1801.4	1859.7	1836.6	1813.6	1810.8
32.5°	1733.5	1794.6	1760.7	1755.2	1759.3
35°	1658.9	1720.0	1687.4	1701.0	1705.0
37.5°	1584.3	1645.4	1623.7	1644.0	1656.2
40°	1502.9	1568.0	1554.5	1591.1	1607.4
42.5°	1422.9	1490.7	1489.4	1536.8	1561.3
45°	1344.2	1410.7	1425.6	1483.9	1511.1
47.5°	1258.8	1326.6	1363.2	1431.0	1458.2
50°	1174.7	1247.9	1298.1	1374.1	1405.3
52.5°	1087.9	1165.2	1234.4	1318.5	1351.0
55°	998.3	1083.8	1166.5	1260.1	1294.0
57.5°	918.3	1005.1	1102.8	1199.1	1238.4
60°	830.1	926.4	1033.6	1135.3	1174.7
62.5°	750.1	849.1	968.5	1075.7	1117.7
65°	664.7	770.5	900.7	1018.7	1058.0
67.5°	586.0	694.5	836.9	956.3	999.7
70°	504.6	619.9	774.5	900.7	945.4
72.5°	420.5	542.6	712.1	846.4	892.5
75°	340.5	472.0	653.8	790.8	841.0
77.5°	265.9	404.2	600.9	742.0	790.8
80°	192.6	343.2	545.3	691.8	742.0
82.5°	127.5	290.3	500.5	647.0	699.9
85°	77.3	242.8	453.1	602.3	655.2
87.5°	35.3	203.5	415.1	562.9	614.5
90°	1.4	172.3	378.4	523.6	575.1
92.5°	1.4	150.6	348.6	489.7	539.9
95°	1.4	134.3	320.1	458.5	506.0
97.5°	1.4	123.4	298.4	428.6	474.8
100°	1.4	112.6	276.7	401.5	449.0
102.5°	2.7	103.1	260.4	377.1	421.9
105°	2.7	96.3	246.9	358.1	398.8
107.5°	2.7	92.2	232.0	339.1	377.1
110°	2.7	88.2	215.7	320.1	358.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	85.5	203.5	303.8	340.5
115°	2.7	82.7	191.3	284.9	321.5
117.5°	2.7	81.4	184.5	269.9	305.2
120°	4.1	77.3	176.3	256.4	290.3
122.5°	4.1	73.2	168.2	245.5	275.4
125°	4.1	70.5	161.4	233.3	263.1
127.5°	4.1	66.5	154.6	222.5	249.6
130°	4.1	62.4	149.2	211.6	237.4
132.5°	4.1	58.3	142.4	200.8	225.2
135°	4.1	54.3	134.3	189.9	213.0
137.5°	4.1	50.2	126.1	179.1	200.8
140°	4.1	46.1	115.3	168.2	188.5
142.5°	4.1	42.0	104.4	157.3	175.0
145°	5.4	39.3	93.6	145.1	162.8
147.5°	5.4	35.3	82.7	132.9	147.9
150°	5.4	32.6	74.6	120.7	134.3
152.5°	5.4	28.5	66.5	107.2	120.7
155°	5.4	25.8	57.0	92.2	107.2
157.5°	5.4	23.1	48.8	77.3	93.6
160°	5.4	21.7	42.0	63.8	80.0
162.5°	6.8	19.0	35.3	51.5	66.5
165°	6.8	16.3	29.8	40.7	54.3
167.5°	6.8	13.6	24.4	31.2	42.0
170°	6.8	10.9	19.0	21.7	32.6
172.5°	6.8	8.1	13.6	14.9	16.3
175°	6.8	6.8	8.1	8.1	4.1
177.5°	6.8	6.8	5.4	4.1	1.4
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)