

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: P566760

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-74HL-FDL-UNV-L840-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

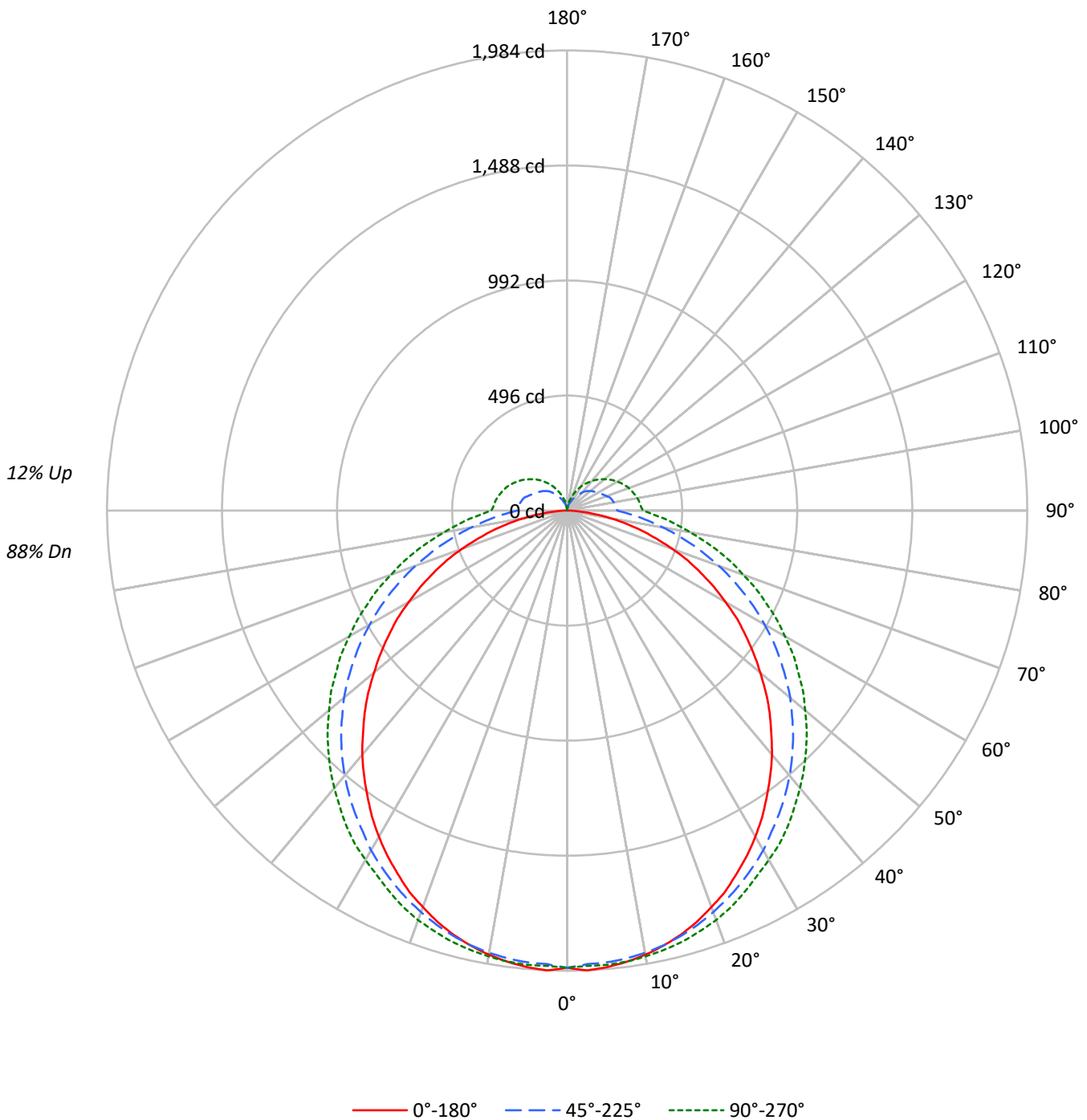
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7096.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 51.8
Input Voltage (V): NR
Input Current (A_{in}): 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	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21216	21216	21216
5°	21330	20897	20938
10°	21212	20701	20722
15°	21038	20465	20520
20°	20759	20182	20288
25°	20424	19895	19980
30°	20058	19606	19716
35°	19593	19261	19532
40°	19143	18974	19249
45°	18600	18642	19011
50°	17969	18291	18708
55°	17369	17855	18438
60°	16676	17392	18107
65°	15832	16860	17784
70°	14759	16276	17418
75°	13231	15637	17292
80°	11097	15238	17154
85°	8045	15554	18081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	2.6
10°-20°	538.3	7.6
20°-30°	818.8	11.5
30°-40°	995.6	14.0
40°-50°	1053.3	14.8
50°-60°	987.4	13.9
60°-70°	812.3	11.4
70°-80°	562.0	7.9
80°-90°	312.5	4.4
90°-100°	205.9	2.9
100°-110°	184.6	2.6
110°-120°	152.8	2.2
120°-130°	118.1	1.7
130°-140°	83.6	1.2
140°-150°	50.4	0.7
150°-160°	24.2	0.3
160°-170°	7.9	0.1
170°-180°	1.0	0.0
0°-30°	1544.2	21.8
0°-40°	2539.8	35.8
0°-60°	4580.5	64.6
0°-90°	6267.3	88.3
90°-120°	543.3	7.7
90°-150°	795.5	11.2
90°-180°	829.0	11.7
0°-180°	7096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1971	1971	1971	1971	1971	
5°	1976	1972	1955	1971	1966	188
15°	1893	1899	1898	1924	1924	534
25°	1728	1752	1773	1812	1813	797
35°	1502	1542	1594	1645	1660	940
45°	1235	1299	1378	1440	1457	952
55°	939	1023	1122	1192	1216	841
65°	636	727	840	922	948	630
75°	330	426	552	639	674	351
85°	73	181	306	391	425	84
90°	1	102	216	298	327	5
95°	1	97	210	288	316	1
105°	1	84	197	271	295	1
115°	2	73	166	241	267	2
125°	2	62	142	205	231	2
135°	2	49	119	169	190	2
145°	2	35	83	128	143	2
155°	4	24	51	81	95	2
165°	4	16	28	38	49	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1971.0	1971.0	1971.0	1971.0	1971.0
2.5°	1984.4	1978.3	1957.6	1971.0	1964.9
5°	1975.9	1972.2	1955.2	1971.0	1966.1
7.5°	1962.5	1961.3	1947.9	1966.1	1961.3
10°	1944.3	1946.7	1935.8	1955.2	1951.6
12.5°	1921.2	1924.8	1920.0	1941.8	1939.4
15°	1893.2	1899.3	1898.1	1923.6	1923.6
17.5°	1859.2	1867.7	1872.6	1901.7	1901.7
20°	1819.1	1832.5	1842.2	1873.8	1878.6
22.5°	1779.0	1794.8	1809.4	1842.2	1849.5
25°	1728.0	1752.3	1772.9	1811.8	1813.0
27.5°	1678.1	1704.9	1732.8	1770.5	1774.1
30°	1623.5	1657.5	1691.5	1728.0	1738.9
32.5°	1565.1	1602.8	1640.5	1689.1	1703.7
35°	1501.9	1542.0	1594.3	1645.3	1659.9
37.5°	1438.8	1483.7	1544.5	1596.7	1610.1
40°	1374.3	1424.2	1492.2	1545.7	1561.5
42.5°	1302.7	1363.4	1436.3	1493.4	1511.7
45°	1234.6	1299.0	1378.0	1440.0	1457.0
47.5°	1162.9	1231.0	1316.0	1381.6	1401.1
50°	1086.4	1164.1	1255.3	1320.9	1339.1
52.5°	1014.7	1093.6	1189.6	1257.7	1283.2
55°	939.3	1023.2	1121.6	1192.1	1216.4
57.5°	868.8	949.0	1054.8	1125.2	1155.6
60°	788.6	877.3	983.1	1059.6	1083.9
62.5°	713.3	803.2	912.6	991.6	1019.5
65°	635.5	726.7	839.7	922.3	947.8
67.5°	562.6	652.5	768.0	849.4	882.2
70°	482.4	577.2	695.1	778.9	806.9
72.5°	403.4	501.9	622.2	712.1	743.7
75°	330.5	426.5	551.7	639.2	674.4
77.5°	260.0	357.3	483.6	573.6	603.9
80°	189.6	291.6	420.4	509.2	538.3
82.5°	125.2	232.1	359.7	448.4	480.0
85°	72.9	181.1	306.2	391.3	425.3
87.5°	31.6	137.3	256.4	340.2	368.2
90°	1.2	102.1	216.3	297.7	326.9
92.5°	1.2	99.6	211.4	291.6	319.6
95°	1.2	97.2	210.2	288.0	315.9
97.5°	1.2	96.0	207.8	285.6	312.3
100°	1.2	92.4	204.1	280.7	307.4
102.5°	1.2	87.5	200.5	275.8	301.4
105°	1.2	83.8	196.9	271.0	295.3
107.5°	1.2	80.2	190.8	264.9	289.2
110°	1.2	76.6	181.1	258.8	283.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	75.3	173.8	250.3	275.8
115°	2.4	72.9	166.5	240.6	267.3
117.5°	2.4	71.7	160.4	230.9	258.8
120°	2.4	68.0	154.3	222.4	249.1
122.5°	2.4	64.4	148.2	213.9	240.6
125°	2.4	62.0	142.2	205.4	230.9
127.5°	2.4	58.3	137.3	196.9	219.9
130°	2.4	55.9	131.2	187.1	210.2
132.5°	2.4	52.3	125.2	177.4	199.3
135°	2.4	48.6	119.1	168.9	189.6
137.5°	2.4	43.7	111.8	159.2	178.6
140°	2.4	40.1	102.1	149.5	167.7
142.5°	2.4	37.7	92.4	138.5	155.5
145°	2.4	35.2	82.6	127.6	143.4
147.5°	2.4	32.8	74.1	116.7	131.2
150°	2.4	29.2	65.6	106.9	119.1
152.5°	3.6	26.7	58.3	94.8	106.9
155°	3.6	24.3	51.0	81.4	94.8
157.5°	3.6	21.9	43.7	68.0	82.6
160°	3.6	19.4	37.7	55.9	70.5
162.5°	3.6	18.2	32.8	46.2	59.5
165°	3.6	15.8	27.9	37.7	48.6
167.5°	3.6	12.2	23.1	29.2	40.1
170°	3.6	9.7	18.2	20.7	30.4
172.5°	3.6	7.3	13.4	14.6	15.8
175°	3.6	6.1	8.5	8.5	4.9
177.5°	3.6	4.9	4.9	4.9	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)