

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: P566784

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566784
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-LW-UNV-L840-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

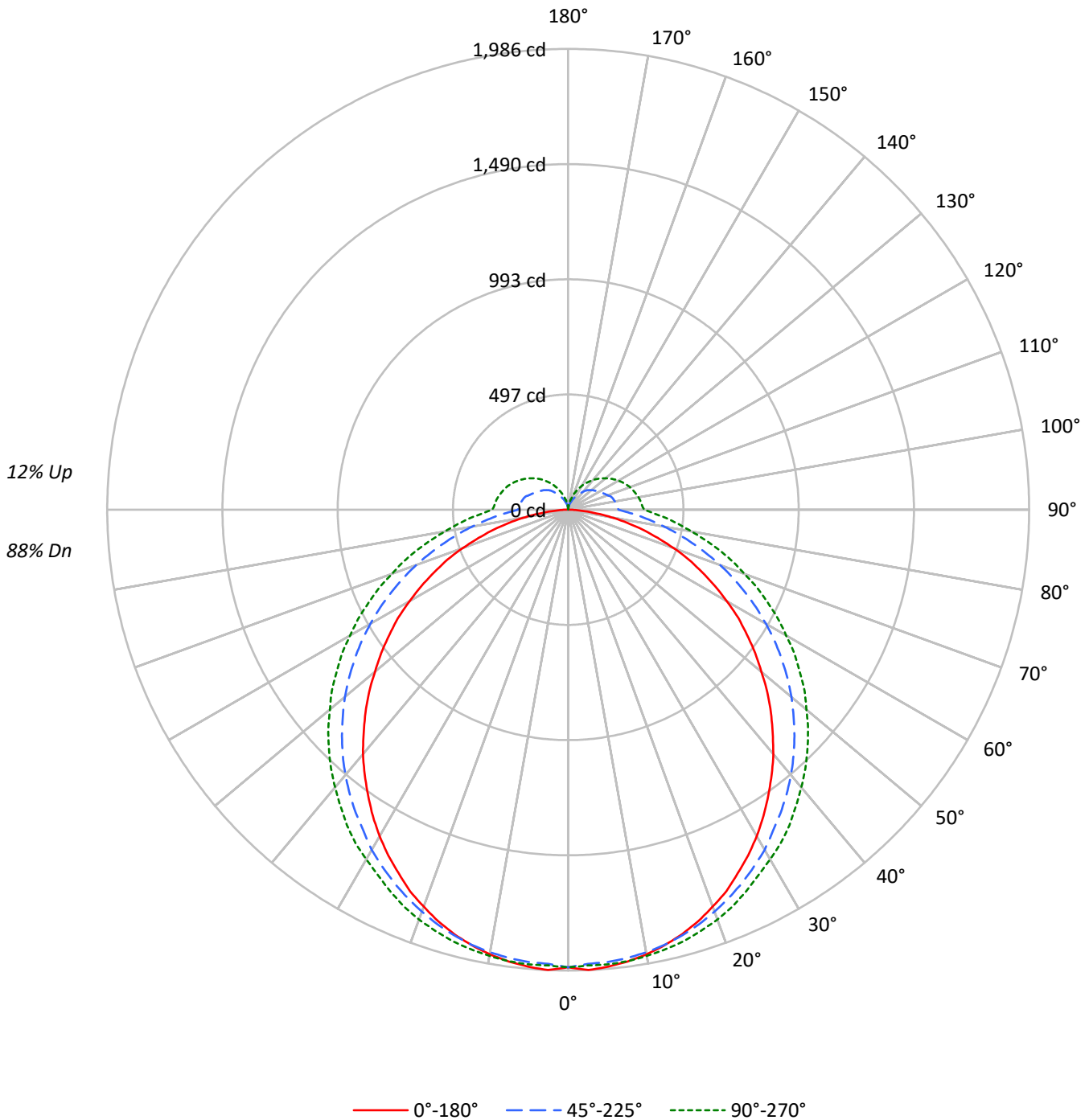
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7100.0 lumens
Efficiency: N/A
Efficacy: 137.1 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: 0.17')
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°	21228	21228	21228
5°	21284	20250	20084
10°	21108	19451	19098
15°	20876	18660	18197
20°	20537	17858	17327
25°	20142	17079	16435
30°	19716	16318	15615
35°	19187	15519	14878
40°	18669	14772	14078
45°	18052	13984	13315
50°	17341	13171	12503
55°	16648	12277	11700
60°	15844	11338	10835
65°	14868	10317	9942
70°	13631	9212	8972
75°	11902	8001	8046
80°	9511	6790	6983
85°	6107	5627	6096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.6
10°-20°	538.6	7.6
20°-30°	819.3	11.5
30°-40°	996.2	14.0
40°-50°	1053.9	14.8
50°-60°	987.9	13.9
60°-70°	812.7	11.4
70°-80°	562.3	7.9
80°-90°	312.7	4.4
90°-100°	206.0	2.9
100°-110°	184.7	2.6
110°-120°	152.9	2.2
120°-130°	118.2	1.7
130°-140°	83.7	1.2
140°-150°	50.5	0.7
150°-160°	24.2	0.3
160°-170°	7.9	0.1
170°-180°	1.0	0.0
0°-30°	1545.1	21.8
0°-40°	2541.2	35.8
0°-60°	4583.1	64.6
0°-90°	6270.9	88.3
90°-120°	543.6	7.7
90°-150°	796.0	11.2
90°-180°	829.0	11.7
0°-180°	7100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1977	1973	1956	1972	1967	188
15°	1894	1900	1899	1925	1925	534
25°	1729	1753	1774	1813	1814	797
35°	1503	1543	1595	1646	1661	941
45°	1235	1300	1379	1441	1458	952
55°	940	1024	1122	1193	1217	841
65°	636	727	840	923	948	630
75°	331	427	552	640	675	351
85°	73	181	306	392	426	84
90°	1	102	216	298	327	5
95°	1	97	210	288	316	1
105°	1	84	197	271	296	1
115°	2	73	167	241	268	2
125°	2	62	142	206	231	2
135°	2	49	119	169	190	2
145°	2	35	83	128	144	2
155°	4	24	51	82	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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CATALOG NUMBER: 4SNX-74HL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1972.1	1972.1	1972.1	1972.1	1972.1
2.5°	1985.5	1979.4	1958.7	1972.1	1966.0
5°	1977.0	1973.3	1956.3	1972.1	1967.2
7.5°	1963.6	1962.4	1949.0	1967.2	1962.4
10°	1945.4	1947.8	1936.8	1956.3	1952.7
12.5°	1922.3	1925.9	1921.0	1942.9	1940.5
15°	1894.3	1900.4	1899.2	1924.7	1924.7
17.5°	1860.2	1868.8	1873.6	1902.8	1902.8
20°	1820.1	1833.5	1843.2	1874.8	1879.7
22.5°	1780.0	1795.8	1810.4	1843.2	1850.5
25°	1728.9	1753.3	1773.9	1812.8	1814.0
27.5°	1679.1	1705.8	1733.8	1771.5	1775.1
30°	1624.4	1658.4	1692.5	1728.9	1739.9
32.5°	1566.0	1603.7	1641.4	1690.0	1704.6
35°	1502.8	1542.9	1595.2	1646.3	1660.8
37.5°	1439.6	1484.6	1545.3	1597.6	1611.0
40°	1375.1	1425.0	1493.1	1546.6	1562.4
42.5°	1303.4	1364.2	1437.1	1494.3	1512.5
45°	1235.3	1299.7	1378.8	1440.8	1457.8
47.5°	1163.6	1231.7	1316.8	1382.4	1401.9
50°	1087.0	1164.8	1256.0	1321.6	1339.9
52.5°	1015.2	1094.3	1190.3	1258.4	1283.9
55°	939.9	1023.7	1122.2	1192.7	1217.1
57.5°	869.3	949.6	1055.4	1125.9	1156.3
60°	789.1	877.8	983.6	1060.2	1084.5
62.5°	713.7	803.7	913.1	992.1	1020.1
65°	635.9	727.1	840.2	922.8	948.4
67.5°	562.9	652.9	768.4	849.9	882.7
70°	482.7	577.5	695.5	779.4	807.3
72.5°	403.7	502.1	622.5	712.5	744.1
75°	330.7	426.8	552.0	639.5	674.8
77.5°	260.2	357.5	483.9	573.9	604.3
80°	189.7	291.8	420.7	509.4	538.6
82.5°	125.2	232.2	359.9	448.6	480.3
85°	73.0	181.2	306.4	391.5	425.5
87.5°	31.6	137.4	256.5	340.4	368.4
90°	1.2	102.1	216.4	297.9	327.1
92.5°	1.2	99.7	211.6	291.8	319.8
95°	1.2	97.3	210.3	288.2	316.1
97.5°	1.2	96.1	207.9	285.7	312.5
100°	1.2	92.4	204.3	280.9	307.6
102.5°	1.2	87.5	200.6	276.0	301.5
105°	1.2	83.9	197.0	271.1	295.5
107.5°	1.2	80.2	190.9	265.1	289.4
110°	1.2	76.6	181.2	259.0	283.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	75.4	173.9	250.5	276.0
115°	2.4	73.0	166.6	240.7	267.5
117.5°	2.4	71.7	160.5	231.0	259.0
120°	2.4	68.1	154.4	222.5	249.2
122.5°	2.4	64.4	148.3	214.0	240.7
125°	2.4	62.0	142.3	205.5	231.0
127.5°	2.4	58.4	137.4	197.0	220.1
130°	2.4	55.9	131.3	187.2	210.3
132.5°	2.4	52.3	125.2	177.5	199.4
135°	2.4	48.6	119.2	169.0	189.7
137.5°	2.4	43.8	111.9	159.3	178.7
140°	2.4	40.1	102.1	149.5	167.8
142.5°	2.4	37.7	92.4	138.6	155.6
145°	2.4	35.3	82.7	127.7	143.5
147.5°	2.4	32.8	74.2	116.7	131.3
150°	2.4	29.2	65.7	107.0	119.2
152.5°	3.6	26.7	58.4	94.8	107.0
155°	3.6	24.3	51.1	81.5	94.8
157.5°	3.6	21.9	43.8	68.1	82.7
160°	3.6	19.5	37.7	55.9	70.5
162.5°	3.6	18.2	32.8	46.2	59.6
165°	3.6	15.8	28.0	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)