

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: P566774

Luminaire Tested: **4SNX-74HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566774
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-L830-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

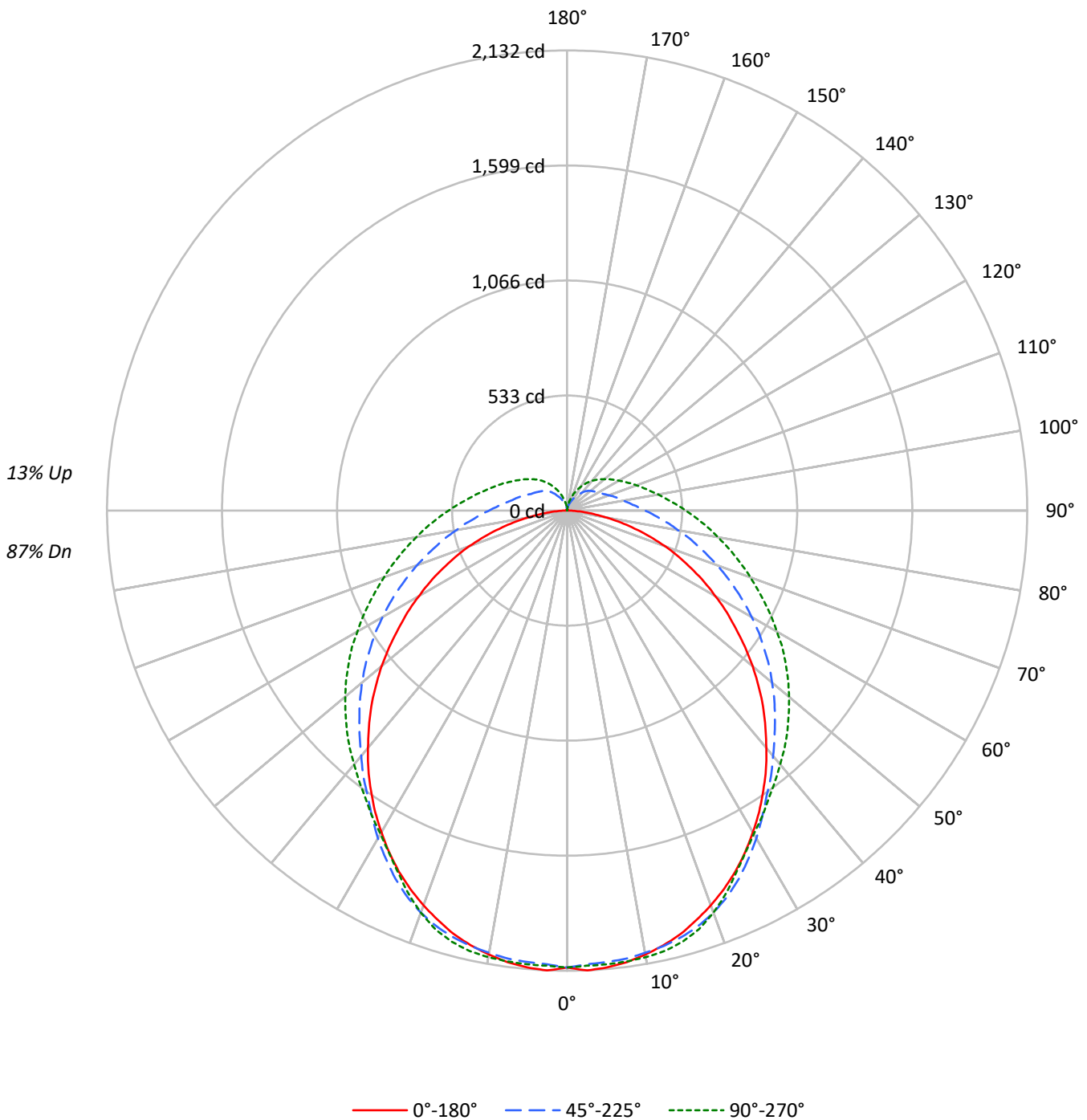
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7642.0 lumens
Efficiency: N/A
Efficacy: 147.5 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 (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	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°	22787	22787	22787
5°	22874	21739	21547
10°	22661	20896	20552
15°	22388	20099	19549
20°	21958	19204	18272
25°	21494	18125	16774
30°	20882	16912	15523
35°	20231	15679	14589
40°	19489	14689	13834
45°	18762	13811	13182
50°	17900	13002	12525
55°	16889	12190	11882
60°	15920	11380	11210
65°	14842	10564	10594
70°	13611	9798	10036
75°	11704	9052	9578
80°	9226	8406	9189
85°	6174	7946	8966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	2.6
10°-20°	578.2	7.6
20°-30°	861.0	11.3
30°-40°	1015.9	13.3
40°-50°	1059.5	13.9
50°-60°	995.7	13.0
60°-70°	840.9	11.0
70°-80°	635.3	8.3
80°-90°	437.9	5.7
90°-100°	306.5	4.0
100°-110°	228.7	3.0
110°-120°	172.4	2.3
120°-130°	128.6	1.7
130°-140°	90.2	1.2
140°-150°	54.6	0.7
150°-160°	26.1	0.3
160°-170°	8.4	0.1
170°-180°	1.0	0.0
0°-30°	1640.3	21.5
0°-40°	2656.3	34.8
0°-60°	4711.5	61.7
0°-90°	6625.6	86.7
90°-120°	707.6	9.3
90°-150°	981.0	12.8
90°-180°	1016.0	13.3
0°-180°	7642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2117	2117	2117	2117	2117	
5°	2125	2121	2100	2116	2110	202
15°	2032	2040	2046	2072	2068	572
25°	1845	1882	1882	1866	1851	849
35°	1584	1643	1612	1625	1628	991
45°	1284	1347	1362	1417	1443	989
55°	954	1035	1114	1204	1236	856
65°	635	736	860	973	1011	630
75°	325	451	624	755	803	346
85°	74	232	433	575	626	83
90°	1	164	362	500	549	5
95°	1	128	306	438	483	1
105°	3	92	236	342	381	3
115°	3	79	183	272	307	3
125°	4	67	154	223	251	3
135°	4	52	128	181	203	3
145°	5	38	89	139	156	3
155°	5	25	54	88	102	2
165°	6	16	28	39	52	2
175°	6	6	8	8	4	1
180°	4	4	4	4	4	



TEST NUMBER: P566774

CATALOG NUMBER: 4SNX-74HL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2117.0	2117.0	2117.0	2117.0	2117.0
2.5°	2132.5	2127.3	2104.0	2117.0	2110.5
5°	2124.7	2120.9	2100.1	2115.7	2110.5
7.5°	2110.5	2109.2	2093.7	2111.8	2106.6
10°	2088.5	2092.4	2080.7	2105.3	2101.4
12.5°	2062.6	2070.3	2066.4	2093.7	2089.8
15°	2031.5	2040.5	2045.7	2071.6	2067.7
17.5°	1990.0	2006.9	2018.5	2039.2	2032.8
20°	1946.0	1969.3	1982.2	1992.6	1982.2
22.5°	1898.0	1929.1	1936.9	1931.7	1921.3
25°	1844.9	1882.5	1882.5	1865.6	1851.4
27.5°	1785.3	1831.9	1819.0	1799.6	1787.9
30°	1720.5	1776.2	1754.2	1732.2	1729.6
32.5°	1655.7	1714.1	1681.7	1676.5	1680.4
35°	1584.5	1642.8	1611.7	1624.7	1628.5
37.5°	1513.2	1571.5	1550.8	1570.2	1581.9
40°	1435.5	1497.7	1484.7	1519.7	1535.3
42.5°	1359.1	1423.8	1422.5	1467.9	1491.2
45°	1283.9	1347.4	1361.7	1417.4	1443.3
47.5°	1202.3	1267.1	1302.1	1366.8	1392.7
50°	1122.0	1191.9	1239.9	1312.4	1342.2
52.5°	1039.1	1112.9	1179.0	1259.3	1290.4
55°	953.5	1035.2	1114.2	1203.6	1236.0
57.5°	877.1	960.0	1053.3	1145.3	1182.9
60°	792.9	884.9	987.2	1084.4	1122.0
62.5°	716.5	811.0	925.0	1027.4	1067.6
65°	634.8	735.9	860.3	973.0	1010.6
67.5°	559.7	663.3	799.4	913.4	954.8
70°	482.0	592.1	739.8	860.3	903.0
72.5°	401.6	518.2	680.2	808.4	852.5
75°	325.2	450.9	624.5	755.3	803.3
77.5°	253.9	386.1	573.9	708.7	755.3
80°	184.0	327.8	520.8	660.7	708.7
82.5°	121.8	277.3	478.1	618.0	668.5
85°	73.8	231.9	432.7	575.2	625.8
87.5°	33.7	194.3	396.4	537.7	586.9
90°	1.3	164.5	361.5	500.1	549.3
92.5°	1.3	143.8	333.0	467.7	515.6
95°	1.3	128.3	305.8	437.9	483.3
97.5°	1.3	117.9	285.0	409.4	453.5
100°	1.3	107.5	264.3	383.5	428.8
102.5°	2.6	98.5	248.8	360.2	402.9
105°	2.6	92.0	235.8	342.0	380.9
107.5°	2.6	88.1	221.5	323.9	360.2
110°	2.6	84.2	206.0	305.8	342.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	81.6	194.3	290.2	325.2
115°	2.6	79.0	182.7	272.1	307.1
117.5°	2.6	77.7	176.2	257.8	291.5
120°	3.9	73.8	168.4	244.9	277.3
122.5°	3.9	70.0	160.7	234.5	263.0
125°	3.9	67.4	154.2	222.8	251.3
127.5°	3.9	63.5	147.7	212.5	238.4
130°	3.9	59.6	142.5	202.1	226.7
132.5°	3.9	55.7	136.0	191.7	215.1
135°	3.9	51.8	128.3	181.4	203.4
137.5°	3.9	47.9	120.5	171.0	191.7
140°	3.9	44.0	110.1	160.7	180.1
142.5°	3.9	40.2	99.8	150.3	167.1
145°	5.2	37.6	89.4	138.6	155.5
147.5°	5.2	33.7	79.0	127.0	141.2
150°	5.2	31.1	71.3	115.3	128.3
152.5°	5.2	27.2	63.5	102.4	115.3
155°	5.2	24.6	54.4	88.1	102.4
157.5°	5.2	22.0	46.6	73.8	89.4
160°	5.2	20.7	40.2	60.9	76.4
162.5°	6.5	18.1	33.7	49.2	63.5
165°	6.5	15.5	28.5	38.9	51.8
167.5°	6.5	13.0	23.3	29.8	40.2
170°	6.5	10.4	18.1	20.7	31.1
172.5°	6.5	7.8	13.0	14.3	15.5
175°	6.5	6.5	7.8	7.8	3.9
177.5°	6.5	6.5	5.2	3.9	1.3
180°	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)