

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: P566758

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566758
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-L830-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

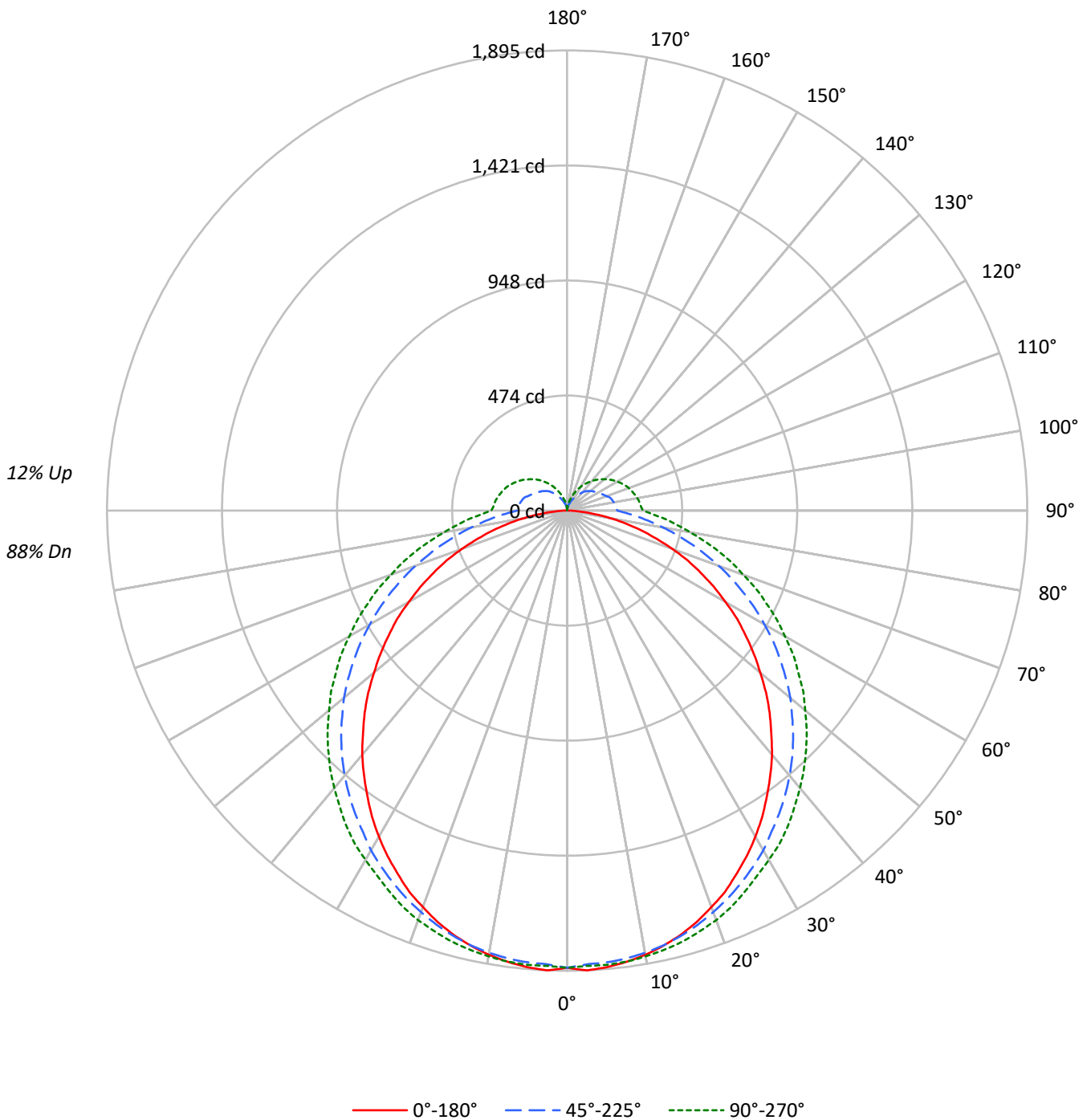
Lumens per Lamp: N/A
Luminaire Lumens: 6778.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 51.8
Input Voltage (V): NR
Input Current (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	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°	20265	20265	20265
5°	20374	19961	20000
10°	20261	19773	19793
15°	20096	19548	19600
20°	19829	19277	19380
25°	19508	19004	19085
30°	19159	18728	18833
35°	18715	18397	18657
40°	18287	18123	18386
45°	17767	17806	18159
50°	17164	17471	17870
55°	16590	17055	17612
60°	15930	16612	17297
65°	15122	16103	16988
70°	14099	15546	16637
75°	12638	14937	16517
80°	10600	14557	16386
85°	7681	14858	17269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	2.6
10°-20°	514.1	7.6
20°-30°	782.1	11.5
30°-40°	951.0	14.0
40°-50°	1006.1	14.8
50°-60°	943.1	13.9
60°-70°	775.9	11.4
70°-80°	536.8	7.9
80°-90°	298.5	4.4
90°-100°	196.7	2.9
100°-110°	176.3	2.6
110°-120°	146.0	2.2
120°-130°	112.8	1.7
130°-140°	79.9	1.2
140°-150°	48.2	0.7
150°-160°	23.1	0.3
160°-170°	7.6	0.1
170°-180°	0.9	0.0
0°-30°	1475.0	21.8
0°-40°	2426.0	35.8
0°-60°	4375.2	64.6
0°-90°	5986.4	88.3
90°-120°	519.0	7.7
90°-150°	759.9	11.2
90°-180°	792.0	11.7
0°-180°	6778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1883	1883	1883	1883	1883	
5°	1887	1884	1868	1883	1878	179
15°	1808	1814	1813	1837	1837	510
25°	1650	1674	1694	1731	1732	761
35°	1435	1473	1523	1572	1586	898
45°	1179	1241	1316	1375	1392	909
55°	897	977	1071	1139	1162	803
65°	607	694	802	881	905	602
75°	316	407	527	610	644	335
85°	70	173	292	374	406	80
90°	1	98	207	284	312	5
95°	1	93	201	275	302	1
105°	1	80	188	259	282	1
115°	2	70	159	230	255	2
125°	2	59	136	196	220	2
135°	2	46	114	161	181	2
145°	2	34	79	122	137	1
155°	4	23	49	78	90	2
165°	4	15	27	36	46	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°	1882.7	1882.7	1882.7	1882.7	1882.7
2.5°	1895.4	1889.6	1869.9	1882.7	1876.9
5°	1887.3	1883.8	1867.6	1882.7	1878.0
7.5°	1874.5	1873.4	1860.6	1878.0	1873.4
10°	1857.1	1859.5	1849.0	1867.6	1864.1
12.5°	1835.1	1838.6	1833.9	1854.8	1852.5
15°	1808.4	1814.2	1813.0	1837.4	1837.4
17.5°	1775.9	1784.0	1788.6	1816.5	1816.5
20°	1737.6	1750.3	1759.6	1789.8	1794.5
22.5°	1699.3	1714.4	1728.3	1759.6	1766.6
25°	1650.5	1673.7	1693.5	1730.6	1731.8
27.5°	1602.9	1628.5	1655.2	1691.1	1694.6
30°	1550.7	1583.2	1615.7	1650.5	1661.0
32.5°	1495.0	1531.0	1567.0	1613.4	1627.3
35°	1434.6	1472.9	1522.8	1571.6	1585.5
37.5°	1374.3	1417.2	1475.3	1525.2	1537.9
40°	1312.8	1360.3	1425.3	1476.4	1491.5
42.5°	1244.3	1302.3	1372.0	1426.5	1443.9
45°	1179.3	1240.8	1316.2	1375.4	1391.7
47.5°	1110.8	1175.8	1257.0	1319.7	1338.3
50°	1037.7	1112.0	1199.0	1261.7	1279.1
52.5°	969.2	1044.6	1136.3	1201.3	1225.7
55°	897.2	977.3	1071.3	1138.7	1161.9
57.5°	829.9	906.5	1007.5	1074.8	1103.8
60°	753.3	838.0	939.0	1012.1	1035.4
62.5°	681.3	767.2	871.7	947.1	973.8
65°	607.0	694.1	802.0	881.0	905.4
67.5°	537.4	623.3	733.6	811.3	842.7
70°	460.8	551.3	663.9	744.0	770.7
72.5°	385.4	479.4	594.3	680.2	710.4
75°	315.7	407.4	527.0	610.5	644.2
77.5°	248.4	341.2	462.0	547.9	576.9
80°	181.1	278.6	401.6	486.3	514.2
82.5°	119.6	221.7	343.6	428.3	458.5
85°	69.6	172.9	292.5	373.7	406.2
87.5°	30.2	131.2	244.9	325.0	351.7
90°	1.2	97.5	206.6	284.4	312.2
92.5°	1.2	95.2	202.0	278.6	305.3
95°	1.2	92.9	200.8	275.1	301.8
97.5°	1.2	91.7	198.5	272.8	298.3
100°	1.2	88.2	195.0	268.1	293.7
102.5°	1.2	83.6	191.5	263.5	287.9
105°	1.2	80.1	188.0	258.8	282.1
107.5°	1.2	76.6	182.2	253.0	276.2
110°	1.2	73.1	172.9	247.2	270.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	72.0	166.0	239.1	263.5
115°	2.3	69.6	159.0	229.8	255.4
117.5°	2.3	68.5	153.2	220.5	247.2
120°	2.3	65.0	147.4	212.4	237.9
122.5°	2.3	61.5	141.6	204.3	229.8
125°	2.3	59.2	135.8	196.2	220.5
127.5°	2.3	55.7	131.2	188.0	210.1
130°	2.3	53.4	125.4	178.7	200.8
132.5°	2.3	49.9	119.6	169.5	190.4
135°	2.3	46.4	113.7	161.3	181.1
137.5°	2.3	41.8	106.8	152.1	170.6
140°	2.3	38.3	97.5	142.8	160.2
142.5°	2.3	36.0	88.2	132.3	148.6
145°	2.3	33.7	78.9	121.9	137.0
147.5°	2.3	31.3	70.8	111.4	125.4
150°	2.3	27.9	62.7	102.1	113.7
152.5°	3.5	25.5	55.7	90.5	102.1
155°	3.5	23.2	48.7	77.8	90.5
157.5°	3.5	20.9	41.8	65.0	78.9
160°	3.5	18.6	36.0	53.4	67.3
162.5°	3.5	17.4	31.3	44.1	56.9
165°	3.5	15.1	26.7	36.0	46.4
167.5°	3.5	11.6	22.1	27.9	38.3
170°	3.5	9.3	17.4	19.7	29.0
172.5°	3.5	7.0	12.8	13.9	15.1
175°	3.5	5.8	8.1	8.1	4.6
177.5°	3.5	4.6	4.6	4.6	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)