

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: P566854

Luminaire Tested: **4SNX-84HL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566854  
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-84HL-FDL-UNV-L830-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

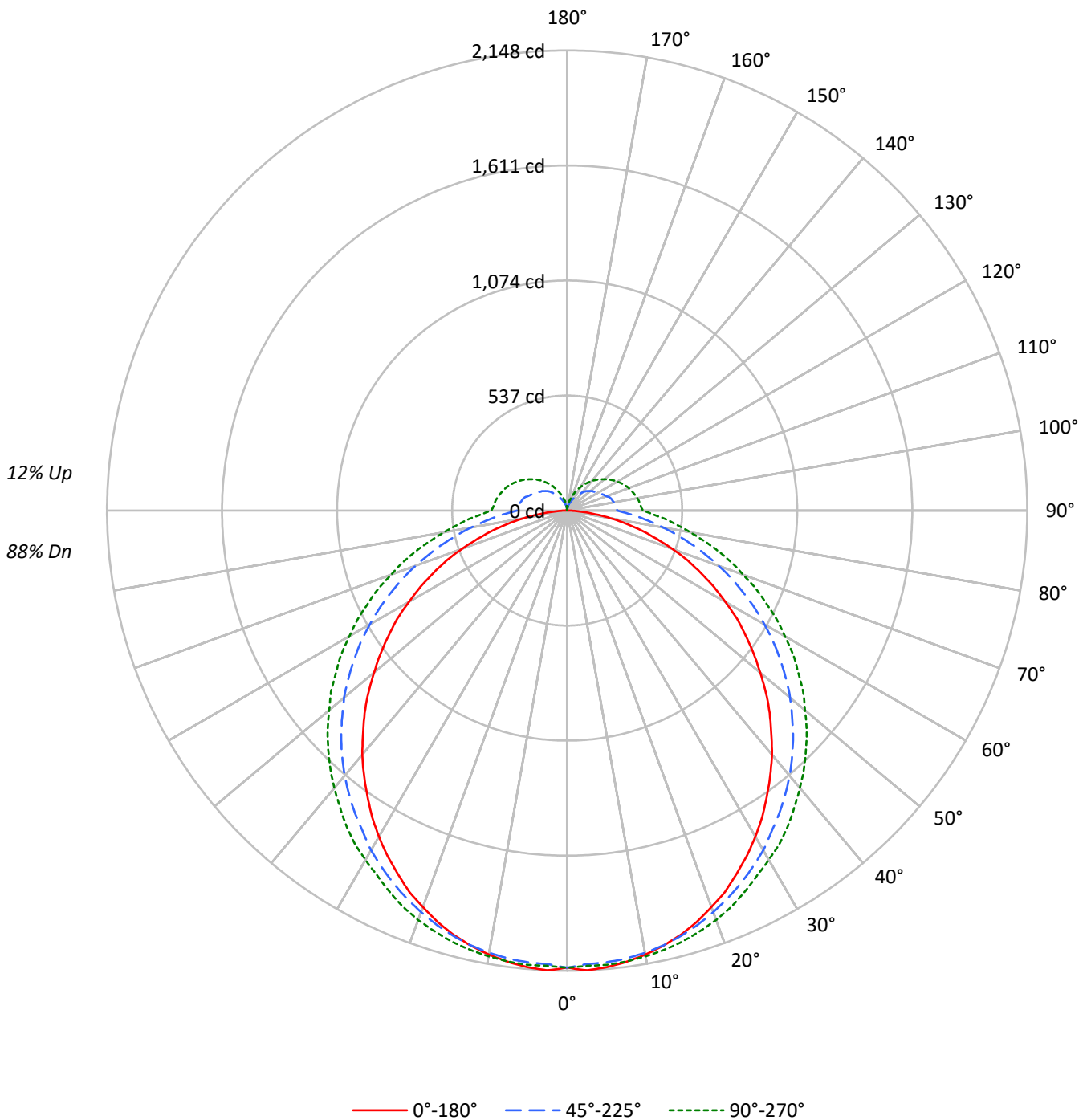
Lumens per Lamp: N/A  
Luminaire Lumens: 7682.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 57.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P566854

CATALOG NUMBER: 4SNX-84HL-FDL-UNV-L830-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566854

CATALOG NUMBER: 4SNX-84HL-FDL-UNV-L830-CD

**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	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°	22968	22968	22968
5°	23091	22623	22668
10°	22963	22410	22432
15°	22776	22155	22215
20°	22473	21848	21964
25°	22110	21537	21629
30°	21714	21226	21344
35°	21211	20852	21145
40°	20724	20542	20838
45°	20137	20182	20580
50°	19453	19801	20253
55°	18804	19329	19960
60°	18055	18828	19602
65°	17140	18251	19253
70°	15980	17620	18856
75°	14324	16927	18720
80°	12010	16499	18572
85°	8708	16839	19573



TEST NUMBER: P566854

CATALOG NUMBER: 4SNX-84HL-FDL-UNV-L830-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.6	2.6
10°-20°	582.7	7.6
20°-30°	886.4	11.5
30°-40°	1077.8	14.0
40°-50°	1140.3	14.8
50°-60°	1068.9	13.9
60°-70°	879.4	11.4
70°-80°	608.4	7.9
80°-90°	338.3	4.4
90°-100°	222.9	2.9
100°-110°	199.9	2.6
110°-120°	165.4	2.2
120°-130°	127.9	1.7
130°-140°	90.5	1.2
140°-150°	54.6	0.7
150°-160°	26.2	0.3
160°-170°	8.6	0.1
170°-180°	1.0	0.0
0°-30°	1671.7	21.8
0°-40°	2749.6	35.8
0°-60°	4958.8	64.6
0°-90°	6784.9	88.3
90°-120°	588.2	7.7
90°-150°	861.2	11.2
90°-180°	897.0	11.7
0°-180°	7682.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2134	2134	2134	2134	2134	
5°	2139	2135	2117	2134	2128	203
15°	2050	2056	2055	2082	2082	578
25°	1871	1897	1919	1961	1963	862
35°	1626	1669	1726	1781	1797	1018
45°	1337	1406	1492	1559	1577	1030
55°	1017	1108	1214	1290	1317	910
65°	688	787	909	998	1026	682
75°	358	462	597	692	730	380
85°	79	196	332	424	460	91
90°	1	110	234	322	354	5
95°	1	105	228	312	342	1
105°	1	91	213	293	320	1
115°	3	79	180	260	289	2
125°	3	67	154	222	250	2
135°	3	53	129	183	205	2
145°	3	38	90	138	155	2
155°	4	26	55	88	103	2
165°	4	17	30	41	53	1
175°	4	7	9	9	5	0
180°	3	3	3	3	3	



TEST NUMBER: P566854

CATALOG NUMBER: 4SNX-84HL-FDL-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2133.8	2133.8	2133.8	2133.8	2133.8
2.5°	2148.2	2141.7	2119.3	2133.8	2127.2
5°	2139.0	2135.1	2116.7	2133.8	2128.5
7.5°	2124.6	2123.2	2108.8	2128.5	2123.2
10°	2104.8	2107.5	2095.6	2116.7	2112.7
12.5°	2079.8	2083.8	2078.5	2102.2	2099.6
15°	2049.6	2056.1	2054.8	2082.5	2082.5
17.5°	2012.7	2021.9	2027.2	2058.8	2058.8
20°	1969.3	1983.8	1994.3	2028.5	2033.8
22.5°	1925.9	1943.0	1958.8	1994.3	2002.2
25°	1870.7	1897.0	1919.3	1961.4	1962.7
27.5°	1816.7	1845.7	1875.9	1916.7	1920.6
30°	1757.5	1794.4	1831.2	1870.7	1882.5
32.5°	1694.4	1735.2	1775.9	1828.6	1844.3
35°	1626.0	1669.4	1726.0	1781.2	1797.0
37.5°	1557.6	1606.2	1672.0	1728.6	1743.1
40°	1487.8	1541.8	1615.5	1673.3	1690.4
42.5°	1410.2	1476.0	1554.9	1616.8	1636.5
45°	1336.6	1406.3	1491.8	1558.9	1577.3
47.5°	1258.9	1332.6	1424.7	1495.7	1516.8
50°	1176.1	1260.3	1358.9	1430.0	1449.7
52.5°	1098.5	1184.0	1287.9	1361.6	1389.2
55°	1016.9	1107.7	1214.2	1290.5	1316.8
57.5°	940.6	1027.4	1141.9	1218.2	1251.1
60°	853.8	949.8	1064.3	1147.1	1173.4
62.5°	772.2	869.6	988.0	1073.5	1103.7
65°	688.0	786.7	909.0	998.5	1026.1
67.5°	609.1	706.4	831.4	919.5	955.1
70°	522.3	624.9	752.5	843.2	873.5
72.5°	436.8	543.3	673.5	770.9	805.1
75°	357.8	461.7	597.2	692.0	730.1
77.5°	281.5	386.8	523.6	620.9	653.8
80°	205.2	315.7	455.2	551.2	582.8
82.5°	135.5	251.3	389.4	485.4	519.6
85°	78.9	196.0	331.5	423.6	460.4
87.5°	34.2	148.7	277.6	368.3	398.6
90°	1.3	110.5	234.2	322.3	353.9
92.5°	1.3	107.9	228.9	315.7	346.0
95°	1.3	105.2	227.6	311.8	342.0
97.5°	1.3	103.9	225.0	309.1	338.1
100°	1.3	100.0	221.0	303.9	332.8
102.5°	1.3	94.7	217.1	298.6	326.2
105°	1.3	90.8	213.1	293.4	319.7
107.5°	1.3	86.8	206.5	286.8	313.1
110°	1.3	82.9	196.0	280.2	306.5



TEST NUMBER: P566854

CATALOG NUMBER: 4SNX-84HL-FDL-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	81.6	188.1	271.0	298.6
115°	2.6	78.9	180.2	260.5	289.4
117.5°	2.6	77.6	173.6	249.9	280.2
120°	2.6	73.7	167.1	240.7	269.7
122.5°	2.6	69.7	160.5	231.5	260.5
125°	2.6	67.1	153.9	222.3	249.9
127.5°	2.6	63.1	148.7	213.1	238.1
130°	2.6	60.5	142.1	202.6	227.6
132.5°	2.6	56.6	135.5	192.1	215.7
135°	2.6	52.6	128.9	182.9	205.2
137.5°	2.6	47.4	121.0	172.3	193.4
140°	2.6	43.4	110.5	161.8	181.5
142.5°	2.6	40.8	100.0	150.0	168.4
145°	2.6	38.1	89.5	138.1	155.2
147.5°	2.6	35.5	80.2	126.3	142.1
150°	2.6	31.6	71.0	115.8	128.9
152.5°	3.9	28.9	63.1	102.6	115.8
155°	3.9	26.3	55.3	88.1	102.6
157.5°	3.9	23.7	47.4	73.7	89.5
160°	3.9	21.0	40.8	60.5	76.3
162.5°	3.9	19.7	35.5	50.0	64.5
165°	3.9	17.1	30.3	40.8	52.6
167.5°	3.9	13.2	25.0	31.6	43.4
170°	3.9	10.5	19.7	22.4	32.9
172.5°	3.9	7.9	14.5	15.8	17.1
175°	3.9	6.6	9.2	9.2	5.3
177.5°	3.9	5.3	5.3	5.3	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)