

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: P566810

Luminaire Tested: **4SNX-81HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566810  
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-81HL-FDL-UNV-L930-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

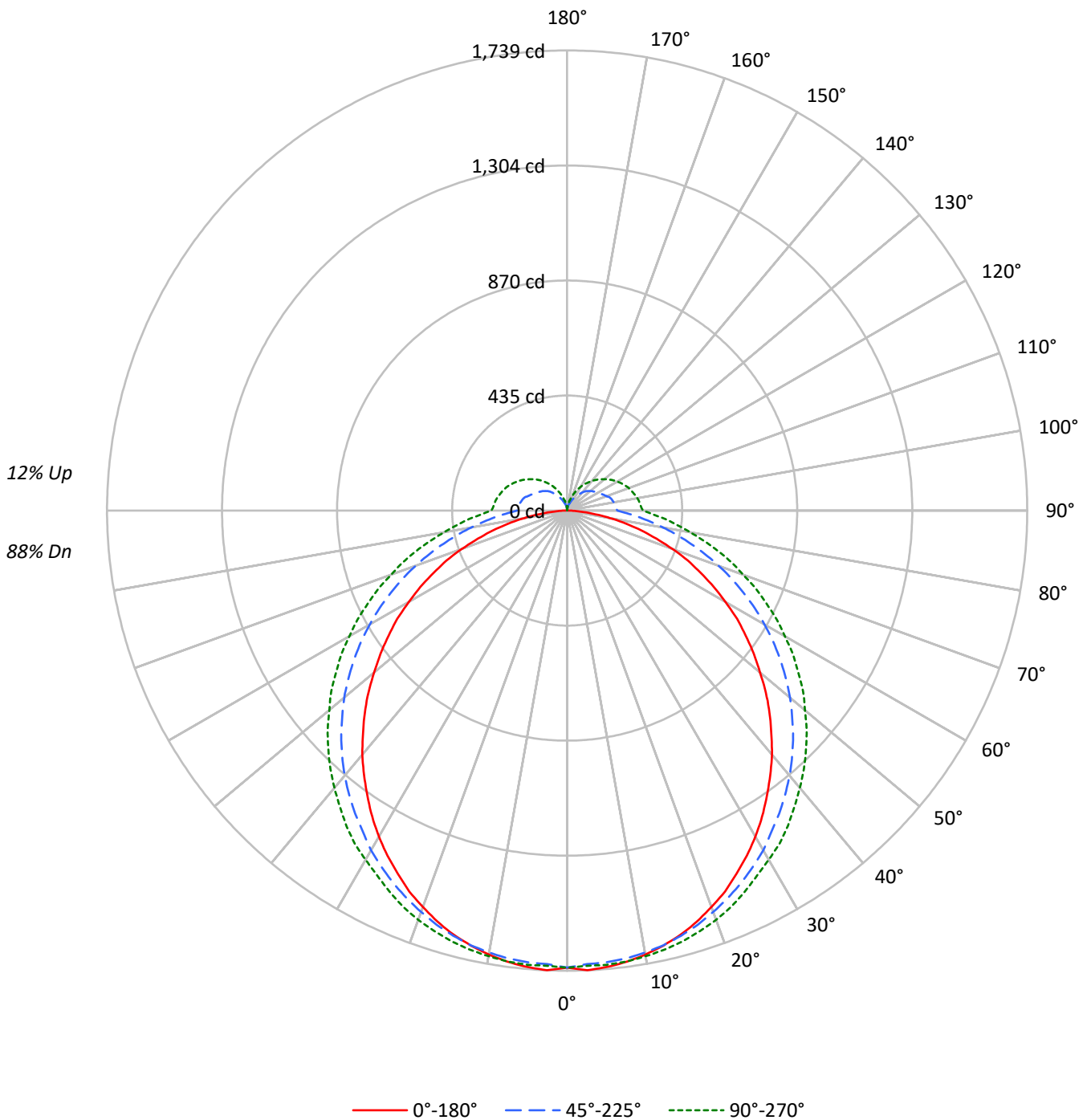
Lumens per Lamp: N/A  
Luminaire Lumens: 6218.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 55.1  
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

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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°	18590	18590	18590
5°	18691	18312	18348
10°	18587	18139	18158
15°	18436	17932	17981
20°	18190	17685	17778
25°	17897	17434	17508
30°	17576	17180	17276
35°	17169	16877	17115
40°	16775	16627	16867
45°	16298	16336	16658
50°	15745	16027	16393
55°	15220	15646	16157
60°	14614	15239	15867
65°	13874	14773	15585
70°	12933	14263	15262
75°	11593	13701	15153
80°	9722	13353	15031
85°	7052	13629	15845



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.0	2.6
10°-20°	471.7	7.6
20°-30°	717.5	11.5
30°-40°	872.4	14.0
40°-50°	923.0	14.8
50°-60°	865.2	13.9
60°-70°	711.8	11.4
70°-80°	492.5	7.9
80°-90°	273.9	4.4
90°-100°	180.4	2.9
100°-110°	161.8	2.6
110°-120°	133.9	2.2
120°-130°	103.5	1.7
130°-140°	73.3	1.2
140°-150°	44.2	0.7
150°-160°	21.2	0.3
160°-170°	6.9	0.1
170°-180°	0.8	0.0
0°-30°	1353.1	21.8
0°-40°	2225.6	35.8
0°-60°	4013.8	64.6
0°-90°	5491.9	88.3
90°-120°	476.1	7.7
90°-150°	697.1	11.2
90°-180°	726.0	11.7
0°-180°	6218.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1731	1728	1713	1727	1723	164
15°	1659	1664	1663	1686	1686	468
25°	1514	1536	1554	1588	1589	698
35°	1316	1351	1397	1442	1454	824
45°	1082	1138	1208	1262	1277	834
55°	823	897	983	1045	1066	737
65°	557	637	736	808	831	552
75°	290	374	483	560	591	307
85°	64	159	268	343	373	74
90°	1	89	190	261	286	4
95°	1	85	184	252	277	1
105°	1	74	172	238	259	1
115°	2	64	146	211	234	2
125°	2	54	125	180	202	2
135°	2	43	104	148	166	2
145°	2	31	72	112	126	1
155°	3	21	45	71	83	1
165°	3	14	24	33	43	1
175°	3	5	8	8	4	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1727.1	1727.1	1727.1	1727.1	1727.1
2.5°	1738.8	1733.5	1715.4	1727.1	1721.8
5°	1731.4	1728.2	1713.3	1727.1	1722.9
7.5°	1719.7	1718.6	1706.9	1722.9	1718.6
10°	1703.7	1705.8	1696.2	1713.3	1710.1
12.5°	1683.5	1686.7	1682.4	1701.6	1699.4
15°	1659.0	1664.3	1663.2	1685.6	1685.6
17.5°	1629.2	1636.6	1640.9	1666.4	1666.4
20°	1594.0	1605.7	1614.3	1641.9	1646.2
22.5°	1558.9	1572.7	1585.5	1614.3	1620.6
25°	1514.2	1535.5	1553.6	1587.6	1588.7
27.5°	1470.5	1493.9	1518.4	1551.4	1554.6
30°	1422.6	1452.4	1482.2	1514.2	1523.7
32.5°	1371.5	1404.5	1437.5	1480.1	1492.9
35°	1316.1	1351.2	1397.0	1441.8	1454.5
37.5°	1260.7	1300.1	1353.4	1399.2	1410.9
40°	1204.3	1248.0	1307.6	1354.4	1368.3
42.5°	1141.5	1194.7	1258.6	1308.7	1324.6
45°	1081.8	1138.3	1207.5	1261.8	1276.7
47.5°	1019.0	1078.7	1153.2	1210.7	1227.7
50°	951.9	1020.1	1099.9	1157.4	1173.4
52.5°	889.1	958.3	1042.4	1102.1	1124.4
55°	823.1	896.6	982.8	1044.6	1065.9
57.5°	761.3	831.6	924.3	986.0	1012.6
60°	691.1	768.8	861.4	928.5	949.8
62.5°	625.0	703.8	799.7	868.9	893.4
65°	556.9	636.8	735.8	808.2	830.6
67.5°	493.0	571.8	673.0	744.3	773.1
70°	422.7	505.8	609.1	682.5	707.0
72.5°	353.5	439.8	545.2	624.0	651.7
75°	289.6	373.7	483.4	560.1	591.0
77.5°	227.9	313.1	423.8	502.6	529.2
80°	166.1	255.6	368.4	446.2	471.7
82.5°	109.7	203.4	315.2	392.9	420.6
85°	63.9	158.7	268.3	342.9	372.7
87.5°	27.7	120.3	224.7	298.1	322.6
90°	1.1	89.4	189.5	260.9	286.4
92.5°	1.1	87.3	185.3	255.6	280.0
95°	1.1	85.2	184.2	252.4	276.9
97.5°	1.1	84.1	182.1	250.2	273.7
100°	1.1	80.9	178.9	246.0	269.4
102.5°	1.1	76.7	175.7	241.7	264.1
105°	1.1	73.5	172.5	237.5	258.7
107.5°	1.1	70.3	167.2	232.1	253.4
110°	1.1	67.1	158.7	226.8	248.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	66.0	152.3	219.4	241.7
115°	2.1	63.9	145.9	210.8	234.3
117.5°	2.1	62.8	140.6	202.3	226.8
120°	2.1	59.6	135.2	194.9	218.3
122.5°	2.1	56.4	129.9	187.4	210.8
125°	2.1	54.3	124.6	180.0	202.3
127.5°	2.1	51.1	120.3	172.5	192.7
130°	2.1	49.0	115.0	164.0	184.2
132.5°	2.1	45.8	109.7	155.5	174.6
135°	2.1	42.6	104.4	148.0	166.1
137.5°	2.1	38.3	98.0	139.5	156.5
140°	2.1	35.1	89.4	131.0	146.9
142.5°	2.1	33.0	80.9	121.4	136.3
145°	2.1	30.9	72.4	111.8	125.6
147.5°	2.1	28.7	65.0	102.2	115.0
150°	2.1	25.6	57.5	93.7	104.4
152.5°	3.2	23.4	51.1	83.1	93.7
155°	3.2	21.3	44.7	71.3	83.1
157.5°	3.2	19.2	38.3	59.6	72.4
160°	3.2	17.0	33.0	49.0	61.8
162.5°	3.2	16.0	28.7	40.5	52.2
165°	3.2	13.8	24.5	33.0	42.6
167.5°	3.2	10.6	20.2	25.6	35.1
170°	3.2	8.5	16.0	18.1	26.6
172.5°	3.2	6.4	11.7	12.8	13.8
175°	3.2	5.3	7.5	7.5	4.3
177.5°	3.2	4.3	4.3	4.3	2.1
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)