

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: P566812

Luminaire Tested: **4SNX-81HL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566812
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-L940-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

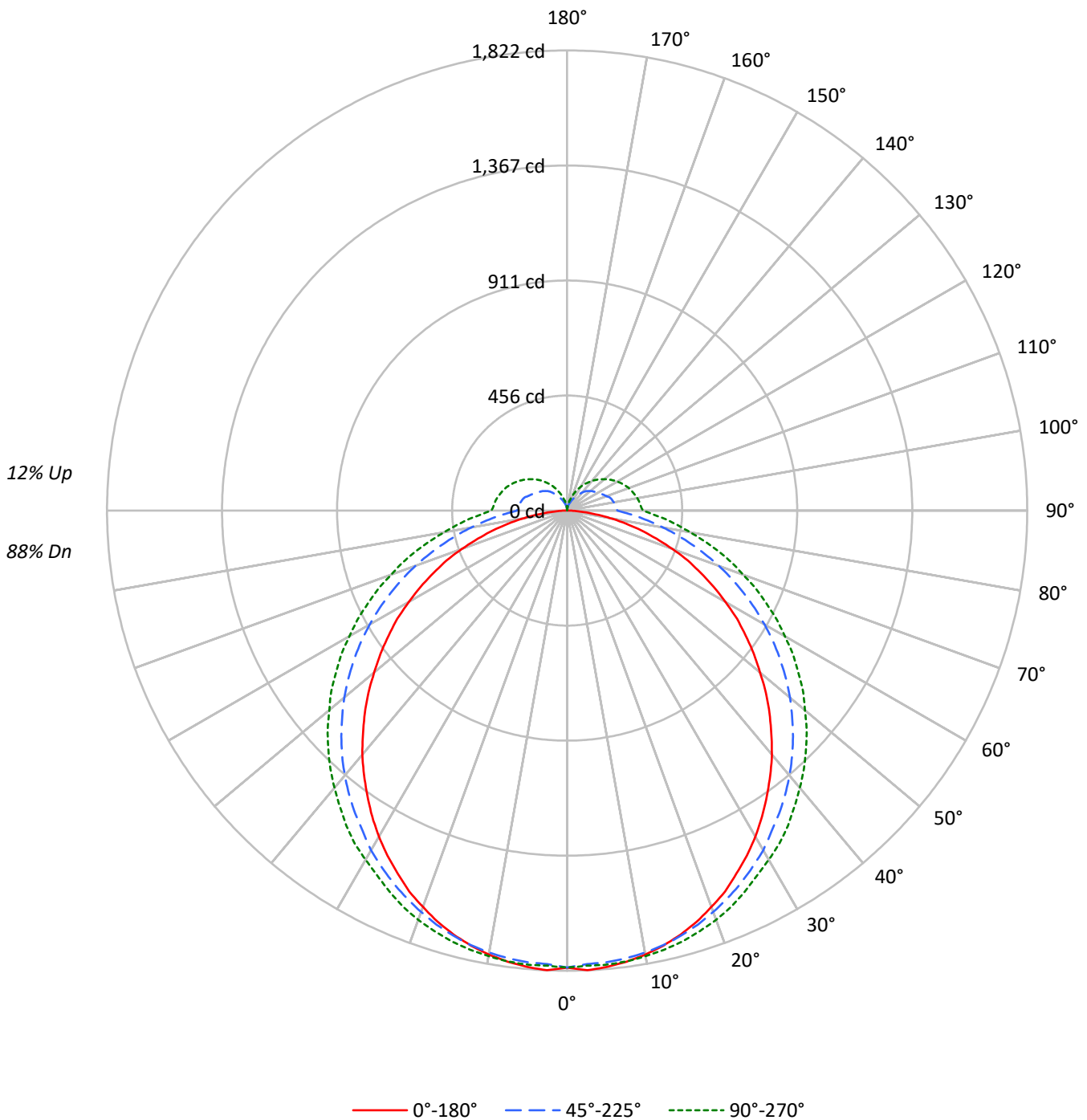
Lumens per Lamp: N/A
Luminaire Lumens: 6514.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P566812

CATALOG NUMBER: 4SNX-81HL-FDL-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566812

CATALOG NUMBER: 4SNX-81HL-FDL-UNV-L940-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°	19475	19475	19475
5°	19580	19183	19222
10°	19472	19003	19022
15°	19313	18786	18836
20°	19056	18527	18625
25°	18748	18263	18341
30°	18412	17999	18099
35°	17987	17681	17931
40°	17574	17417	17670
45°	17074	17114	17451
50°	16496	16790	17174
55°	15945	16391	16926
60°	15310	15964	16622
65°	14534	15476	16326
70°	13551	14942	15989
75°	12146	14353	15874
80°	10184	13991	15748
85°	7383	14279	16597



TEST NUMBER: P566812

CATALOG NUMBER: 4SNX-81HL-FDL-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	2.6
10°-20°	494.1	7.6
20°-30°	751.7	11.5
30°-40°	914.0	14.0
40°-50°	966.9	14.8
50°-60°	906.4	13.9
60°-70°	745.6	11.4
70°-80°	515.9	7.9
80°-90°	286.9	4.4
90°-100°	189.0	2.9
100°-110°	169.5	2.6
110°-120°	140.3	2.2
120°-130°	108.4	1.7
130°-140°	76.8	1.2
140°-150°	46.3	0.7
150°-160°	22.2	0.3
160°-170°	7.3	0.1
170°-180°	0.9	0.0
0°-30°	1417.5	21.8
0°-40°	2331.5	35.8
0°-60°	4204.8	64.6
0°-90°	5753.3	88.3
90°-120°	498.8	7.7
90°-150°	730.3	11.2
90°-180°	761.0	11.7
0°-180°	6514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1809	1809	1809	1809	1809	
5°	1814	1810	1795	1809	1805	172
15°	1738	1744	1742	1766	1766	490
25°	1586	1608	1628	1663	1664	731
35°	1379	1416	1464	1510	1524	863
45°	1133	1192	1265	1322	1338	874
55°	862	939	1030	1094	1117	772
65°	583	667	771	847	870	578
75°	303	392	506	587	619	322
85°	67	166	281	359	390	77
90°	1	94	199	273	300	4
95°	1	89	193	264	290	1
105°	1	77	181	249	271	1
115°	2	67	153	221	245	2
125°	2	57	130	188	212	2
135°	2	45	109	155	174	2
145°	2	32	76	117	132	1
155°	3	22	47	75	87	1
165°	3	14	26	35	45	1
175°	3	6	8	8	4	0
180°	2	2	2	2	2	



TEST NUMBER: P566812

CATALOG NUMBER: 4SNX-81HL-FDL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.3	1809.3	1809.3	1809.3	1809.3
2.5°	1821.6	1816.0	1797.1	1809.3	1803.8
5°	1813.8	1810.5	1794.8	1809.3	1804.9
7.5°	1801.5	1800.4	1788.1	1804.9	1800.4
10°	1784.8	1787.0	1777.0	1794.8	1791.5
12.5°	1763.6	1766.9	1762.5	1782.6	1780.3
15°	1737.9	1743.5	1742.4	1765.8	1765.8
17.5°	1706.7	1714.5	1719.0	1745.8	1745.8
20°	1669.9	1682.2	1691.1	1720.1	1724.6
22.5°	1633.1	1647.6	1661.0	1691.1	1697.8
25°	1586.2	1608.5	1627.5	1663.2	1664.3
27.5°	1540.5	1565.0	1590.7	1625.3	1628.6
30°	1490.3	1521.5	1552.8	1586.2	1596.3
32.5°	1436.8	1471.3	1505.9	1550.5	1563.9
35°	1378.8	1415.6	1463.5	1510.4	1523.8
37.5°	1320.7	1362.0	1417.8	1465.8	1478.0
40°	1261.6	1307.4	1369.8	1418.9	1433.4
42.5°	1195.8	1251.6	1318.5	1370.9	1387.7
45°	1133.3	1192.5	1265.0	1321.9	1337.5
47.5°	1067.5	1130.0	1208.1	1268.3	1286.2
50°	997.3	1068.6	1152.3	1212.5	1229.3
52.5°	931.4	1003.9	1092.1	1154.5	1178.0
55°	862.3	939.2	1029.6	1094.3	1116.6
57.5°	797.6	871.2	968.3	1033.0	1060.8
60°	724.0	805.4	902.4	972.7	995.0
62.5°	654.8	737.3	837.7	910.2	935.9
65°	583.4	667.1	770.8	846.7	870.1
67.5°	516.5	599.0	705.0	779.7	809.9
70°	442.9	529.9	638.1	715.0	740.7
72.5°	370.3	460.7	571.1	653.7	682.7
75°	303.4	391.5	506.4	586.8	619.1
77.5°	238.7	328.0	444.0	526.5	554.4
80°	174.0	267.7	386.0	467.4	494.2
82.5°	114.9	213.1	330.2	411.6	440.6
85°	66.9	166.2	281.1	359.2	390.4
87.5°	29.0	126.1	235.4	312.3	338.0
90°	1.1	93.7	198.6	273.3	300.1
92.5°	1.1	91.5	194.1	267.7	293.4
95°	1.1	89.2	193.0	264.4	290.0
97.5°	1.1	88.1	190.8	262.1	286.7
100°	1.1	84.8	187.4	257.7	282.2
102.5°	1.1	80.3	184.1	253.2	276.6
105°	1.1	77.0	180.7	248.8	271.1
107.5°	1.1	73.6	175.1	243.2	265.5
110°	1.1	70.3	166.2	237.6	259.9



TEST NUMBER: P566812

CATALOG NUMBER: 4SNX-81HL-FDL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	69.2	159.5	229.8	253.2
115°	2.2	66.9	152.8	220.9	245.4
117.5°	2.2	65.8	147.2	211.9	237.6
120°	2.2	62.5	141.7	204.1	228.7
122.5°	2.2	59.1	136.1	196.3	220.9
125°	2.2	56.9	130.5	188.5	211.9
127.5°	2.2	53.5	126.1	180.7	201.9
130°	2.2	51.3	120.5	171.8	193.0
132.5°	2.2	48.0	114.9	162.9	182.9
135°	2.2	44.6	109.3	155.1	174.0
137.5°	2.2	40.2	102.6	146.1	164.0
140°	2.2	36.8	93.7	137.2	153.9
142.5°	2.2	34.6	84.8	127.2	142.8
145°	2.2	32.3	75.9	117.1	131.6
147.5°	2.2	30.1	68.0	107.1	120.5
150°	2.2	26.8	60.2	98.2	109.3
152.5°	3.3	24.5	53.5	87.0	98.2
155°	3.3	22.3	46.9	74.7	87.0
157.5°	3.3	20.1	40.2	62.5	75.9
160°	3.3	17.8	34.6	51.3	64.7
162.5°	3.3	16.7	30.1	42.4	54.7
165°	3.3	14.5	25.7	34.6	44.6
167.5°	3.3	11.2	21.2	26.8	36.8
170°	3.3	8.9	16.7	19.0	27.9
172.5°	3.3	6.7	12.3	13.4	14.5
175°	3.3	5.6	7.8	7.8	4.5
177.5°	3.3	4.5	4.5	4.5	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)