

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: P566834

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566834
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-LW-UNV-L930-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

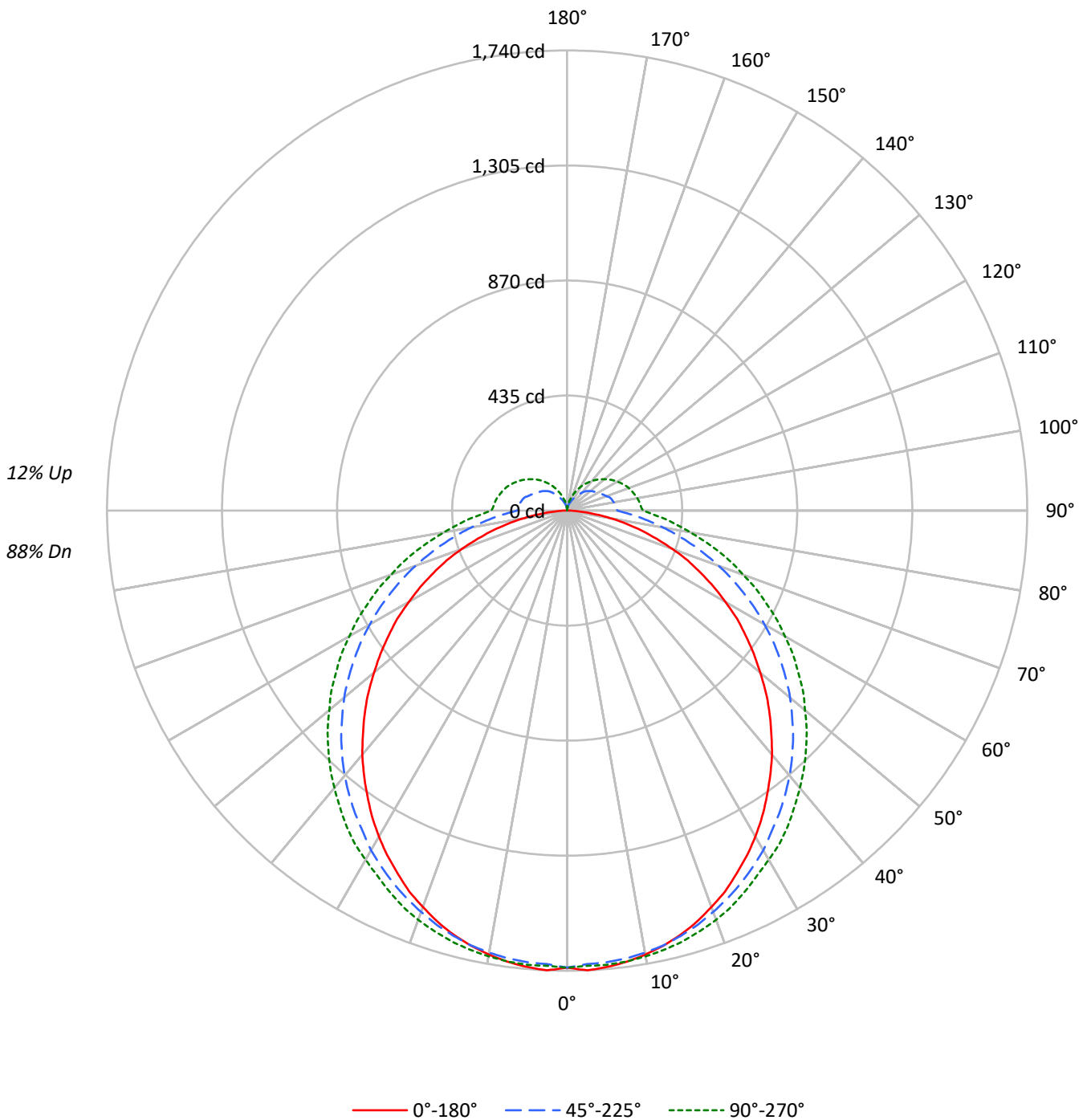
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6222.0 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: 0.17')
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	18602	18602	18602
5°	18652	17746	17601
10°	18498	17046	16736
15°	18294	16352	15947
20°	17997	15650	15185
25°	17651	14968	14403
30°	17277	14300	13684
35°	16815	13599	13039
40°	16361	12944	12337
45°	15819	12255	11668
50°	15197	11542	10957
55°	14588	10760	10254
60°	13884	9937	9495
65°	13030	9041	8712
70°	11945	8073	7863
75°	10430	7011	7050
80°	8333	5951	6120
85°	5346	4931	5343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	2.6
10°-20°	472.0	7.6
20°-30°	718.0	11.5
30°-40°	873.0	14.0
40°-50°	923.6	14.8
50°-60°	865.7	13.9
60°-70°	712.2	11.4
70°-80°	492.8	7.9
80°-90°	274.0	4.4
90°-100°	180.5	2.9
100°-110°	161.9	2.6
110°-120°	134.0	2.2
120°-130°	103.6	1.7
130°-140°	73.3	1.2
140°-150°	44.2	0.7
150°-160°	21.2	0.3
160°-170°	7.0	0.1
170°-180°	0.8	0.0
0°-30°	1354.0	21.8
0°-40°	2227.0	35.8
0°-60°	4016.3	64.6
0°-90°	5495.4	88.3
90°-120°	476.4	7.7
90°-150°	697.6	11.2
90°-180°	727.0	11.7
0°-180°	6222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1732	1729	1714	1728	1724	164
15°	1660	1665	1664	1687	1687	468
25°	1515	1536	1555	1589	1590	698
35°	1317	1352	1398	1443	1456	824
45°	1082	1139	1208	1263	1278	834
55°	824	897	984	1045	1067	737
65°	557	637	736	809	831	553
75°	290	374	484	560	591	307
85°	64	159	268	343	373	74
90°	1	90	190	261	287	4
95°	1	85	184	252	277	1
105°	1	74	173	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	



TEST NUMBER: P566834

CATALOG NUMBER: 4SNX-81HL-LW-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1728.2	1728.2	1728.2	1728.2	1728.2
2.5°	1740.0	1734.6	1716.5	1728.2	1722.9
5°	1732.5	1729.3	1714.4	1728.2	1724.0
7.5°	1720.8	1719.7	1708.0	1724.0	1719.7
10°	1704.8	1706.9	1697.3	1714.4	1711.2
12.5°	1684.5	1687.7	1683.5	1702.7	1700.5
15°	1660.0	1665.4	1664.3	1686.7	1686.7
17.5°	1630.2	1637.7	1641.9	1667.5	1667.5
20°	1595.0	1606.8	1615.3	1643.0	1647.3
22.5°	1559.9	1573.7	1586.5	1615.3	1621.7
25°	1515.1	1536.4	1554.6	1588.7	1589.7
27.5°	1471.4	1494.9	1519.4	1552.4	1555.6
30°	1423.5	1453.3	1483.2	1515.1	1524.7
32.5°	1372.4	1405.4	1438.4	1481.0	1493.8
35°	1317.0	1352.1	1397.9	1442.7	1455.5
37.5°	1261.5	1301.0	1354.2	1400.1	1411.8
40°	1205.1	1248.8	1308.4	1355.3	1369.2
42.5°	1142.2	1195.5	1259.4	1309.5	1325.5
45°	1082.5	1139.0	1208.3	1262.6	1277.5
47.5°	1019.7	1079.3	1153.9	1211.5	1228.5
50°	952.6	1020.7	1100.7	1158.2	1174.2
52.5°	889.7	958.9	1043.1	1102.8	1125.2
55°	823.6	897.1	983.5	1045.2	1066.6
57.5°	761.8	832.2	924.8	986.6	1013.3
60°	691.5	769.3	862.0	929.1	950.4
62.5°	625.4	704.3	800.2	869.4	893.9
65°	557.3	637.2	736.3	808.7	831.1
67.5°	493.3	572.2	673.4	744.8	773.5
70°	423.0	506.1	609.5	683.0	707.5
72.5°	353.7	440.0	545.5	624.4	652.1
75°	289.8	374.0	483.7	560.4	591.3
77.5°	228.0	313.3	424.1	502.9	529.6
80°	166.2	255.7	368.7	446.4	472.0
82.5°	109.7	203.5	315.4	393.2	420.9
85°	63.9	158.8	268.5	343.1	372.9
87.5°	27.7	120.4	224.8	298.3	322.8
90°	1.1	89.5	189.7	261.0	286.6
92.5°	1.1	87.4	185.4	255.7	280.2
95°	1.1	85.2	184.3	252.5	277.0
97.5°	1.1	84.2	182.2	250.4	273.8
100°	1.1	81.0	179.0	246.1	269.6
102.5°	1.1	76.7	175.8	241.9	264.2
105°	1.1	73.5	172.6	237.6	258.9
107.5°	1.1	70.3	167.3	232.3	253.6
110°	1.1	67.1	158.8	227.0	248.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	66.1	152.4	219.5	241.9
115°	2.1	63.9	146.0	211.0	234.4
117.5°	2.1	62.9	140.6	202.4	227.0
120°	2.1	59.7	135.3	195.0	218.4
122.5°	2.1	56.5	130.0	187.5	211.0
125°	2.1	54.3	124.7	180.1	202.4
127.5°	2.1	51.1	120.4	172.6	192.9
130°	2.1	49.0	115.1	164.1	184.3
132.5°	2.1	45.8	109.7	155.6	174.7
135°	2.1	42.6	104.4	148.1	166.2
137.5°	2.1	38.4	98.0	139.6	156.6
140°	2.1	35.2	89.5	131.1	147.0
142.5°	2.1	33.0	81.0	121.5	136.4
145°	2.1	30.9	72.5	111.9	125.7
147.5°	2.1	28.8	65.0	102.3	115.1
150°	2.1	25.6	57.5	93.8	104.4
152.5°	3.2	23.4	51.1	83.1	93.8
155°	3.2	21.3	44.8	71.4	83.1
157.5°	3.2	19.2	38.4	59.7	72.5
160°	3.2	17.0	33.0	49.0	61.8
162.5°	3.2	16.0	28.8	40.5	52.2
165°	3.2	13.9	24.5	33.0	42.6
167.5°	3.2	10.7	20.2	25.6	35.2
170°	3.2	8.5	16.0	18.1	26.6
172.5°	3.2	6.4	11.7	12.8	13.9
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)