

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: P566836

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566836
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-L940-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

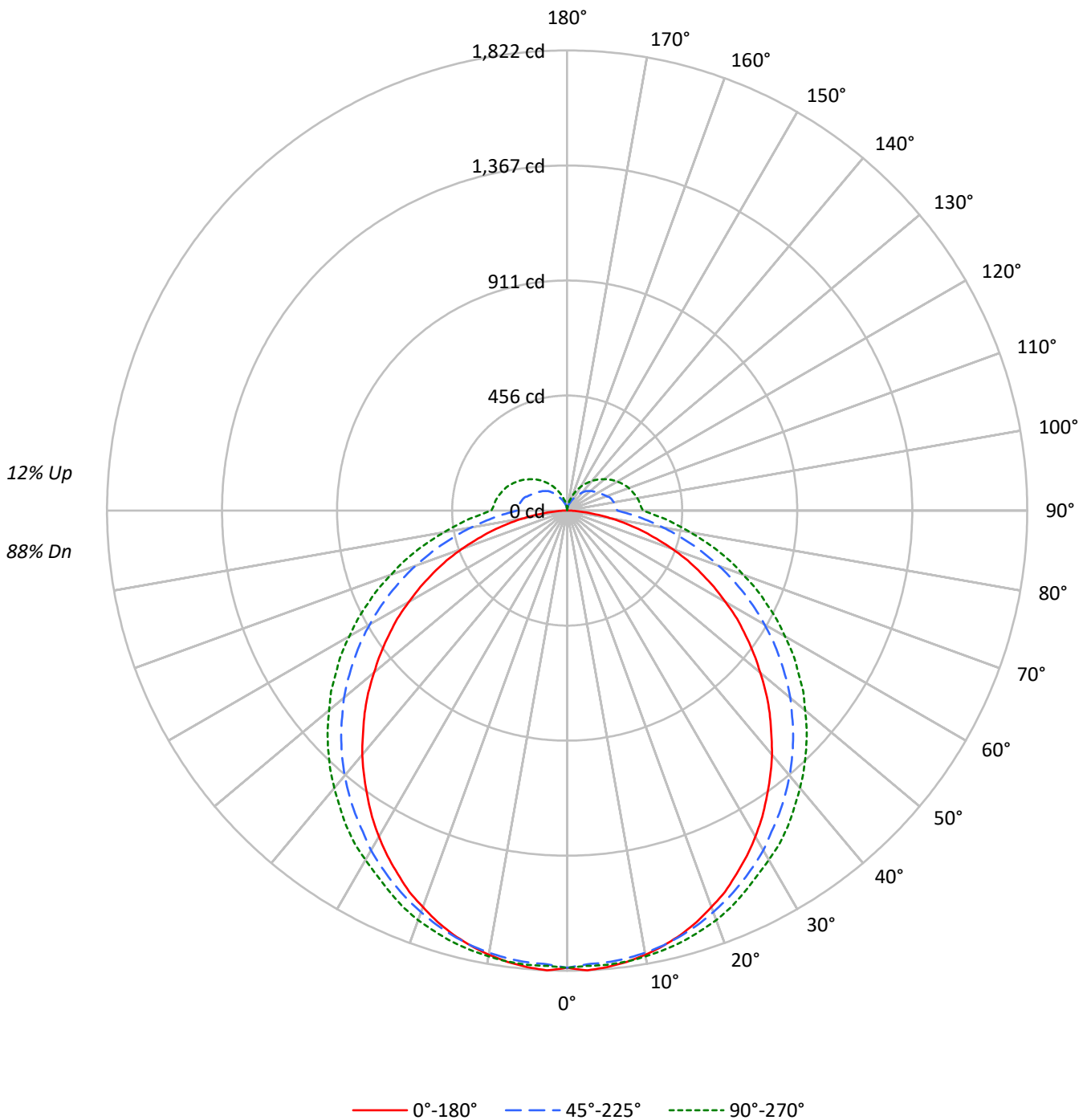
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6517.0 lumens
Efficiency: N/A
Efficacy: 118.3 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 (A_{in}): 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°	19485	19485	19485
5°	19536	18588	18435
10°	19374	17854	17529
15°	19161	17127	16703
20°	18852	16392	15905
25°	18489	15677	15086
30°	18096	14977	14333
35°	17612	14244	13657
40°	17136	13559	12922
45°	16570	12836	12221
50°	15917	12089	11476
55°	15280	11270	10739
60°	14543	10408	9946
65°	13647	9470	9125
70°	12513	8455	8236
75°	10927	7344	7385
80°	8729	6232	6410
85°	5605	5164	5596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	2.6
10°-20°	494.3	7.6
20°-30°	752.0	11.5
30°-40°	914.4	14.0
40°-50°	967.4	14.8
50°-60°	906.8	13.9
60°-70°	746.0	11.4
70°-80°	516.2	7.9
80°-90°	287.0	4.4
90°-100°	189.1	2.9
100°-110°	169.6	2.6
110°-120°	140.3	2.2
120°-130°	108.5	1.7
130°-140°	76.8	1.2
140°-150°	46.3	0.7
150°-160°	22.3	0.3
160°-170°	7.3	0.1
170°-180°	0.9	0.0
0°-30°	1418.2	21.8
0°-40°	2332.6	35.8
0°-60°	4206.8	64.6
0°-90°	5756.0	88.3
90°-120°	499.0	7.7
90°-150°	730.6	11.2
90°-180°	761.0	11.7
0°-180°	6517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1815	1811	1796	1810	1806	172
15°	1739	1744	1743	1767	1767	490
25°	1587	1609	1628	1664	1665	732
35°	1379	1416	1464	1511	1524	863
45°	1134	1193	1266	1322	1338	874
55°	863	940	1030	1095	1117	772
65°	584	667	771	847	870	579
75°	304	392	507	587	619	322
85°	67	166	281	359	391	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	246	2
125°	2	57	131	189	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.2	1810.2	1810.2	1810.2	1810.2
2.5°	1822.4	1816.9	1797.9	1810.2	1804.6
5°	1814.6	1811.3	1795.7	1810.2	1805.7
7.5°	1802.4	1801.2	1789.0	1805.7	1801.2
10°	1785.6	1787.9	1777.8	1795.7	1792.3
12.5°	1764.4	1767.8	1763.3	1783.4	1781.2
15°	1738.7	1744.3	1743.2	1766.6	1766.6
17.5°	1707.5	1715.3	1719.8	1746.6	1746.6
20°	1670.7	1682.9	1691.9	1720.9	1725.4
22.5°	1633.8	1648.3	1661.7	1691.9	1698.6
25°	1587.0	1609.3	1628.3	1664.0	1665.1
27.5°	1541.2	1565.8	1591.4	1626.0	1629.4
30°	1491.0	1522.2	1553.5	1587.0	1597.0
32.5°	1437.4	1472.0	1506.6	1551.3	1564.6
35°	1379.4	1416.2	1464.2	1511.1	1524.5
37.5°	1321.4	1362.7	1418.5	1466.4	1478.7
40°	1262.2	1308.0	1370.5	1419.6	1434.1
42.5°	1196.4	1252.2	1319.1	1371.6	1388.3
45°	1133.9	1193.0	1265.6	1322.5	1338.1
47.5°	1068.0	1130.5	1208.6	1268.9	1286.8
50°	997.7	1069.1	1152.8	1213.1	1229.8
52.5°	931.9	1004.4	1092.6	1155.1	1178.5
55°	862.7	939.7	1030.1	1094.8	1117.1
57.5°	797.9	871.6	968.7	1033.4	1061.3
60°	724.3	805.8	902.9	973.2	995.5
62.5°	655.1	737.7	838.1	910.7	936.3
65°	583.7	667.4	771.2	847.1	870.5
67.5°	516.7	599.3	705.3	780.1	810.2
70°	443.1	530.1	638.4	715.4	741.0
72.5°	370.5	460.9	571.4	654.0	683.0
75°	303.6	391.7	506.7	587.0	619.4
77.5°	238.8	328.1	444.2	526.8	554.7
80°	174.1	267.8	386.1	467.6	494.4
82.5°	114.9	213.2	330.3	411.8	440.8
85°	67.0	166.3	281.2	359.4	390.6
87.5°	29.0	126.1	235.5	312.5	338.2
90°	1.1	93.7	198.7	273.4	300.2
92.5°	1.1	91.5	194.2	267.8	293.5
95°	1.1	89.3	193.1	264.5	290.2
97.5°	1.1	88.2	190.8	262.3	286.8
100°	1.1	84.8	187.5	257.8	282.4
102.5°	1.1	80.4	184.1	253.3	276.8
105°	1.1	77.0	180.8	248.9	271.2
107.5°	1.1	73.7	175.2	243.3	265.6
110°	1.1	70.3	166.3	237.7	260.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	69.2	159.6	229.9	253.3
115°	2.2	67.0	152.9	221.0	245.5
117.5°	2.2	65.8	147.3	212.0	237.7
120°	2.2	62.5	141.7	204.2	228.8
122.5°	2.2	59.1	136.2	196.4	221.0
125°	2.2	56.9	130.6	188.6	212.0
127.5°	2.2	53.6	126.1	180.8	202.0
130°	2.2	51.3	120.5	171.9	193.1
132.5°	2.2	48.0	114.9	162.9	183.0
135°	2.2	44.6	109.4	155.1	174.1
137.5°	2.2	40.2	102.7	146.2	164.1
140°	2.2	36.8	93.7	137.3	154.0
142.5°	2.2	34.6	84.8	127.2	142.8
145°	2.2	32.4	75.9	117.2	131.7
147.5°	2.2	30.1	68.1	107.1	120.5
150°	2.2	26.8	60.3	98.2	109.4
152.5°	3.3	24.6	53.6	87.0	98.2
155°	3.3	22.3	46.9	74.8	87.0
157.5°	3.3	20.1	40.2	62.5	75.9
160°	3.3	17.9	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)