

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: P566835

Luminaire Tested: **4SNX-81HL-LW-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566835
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-L935-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

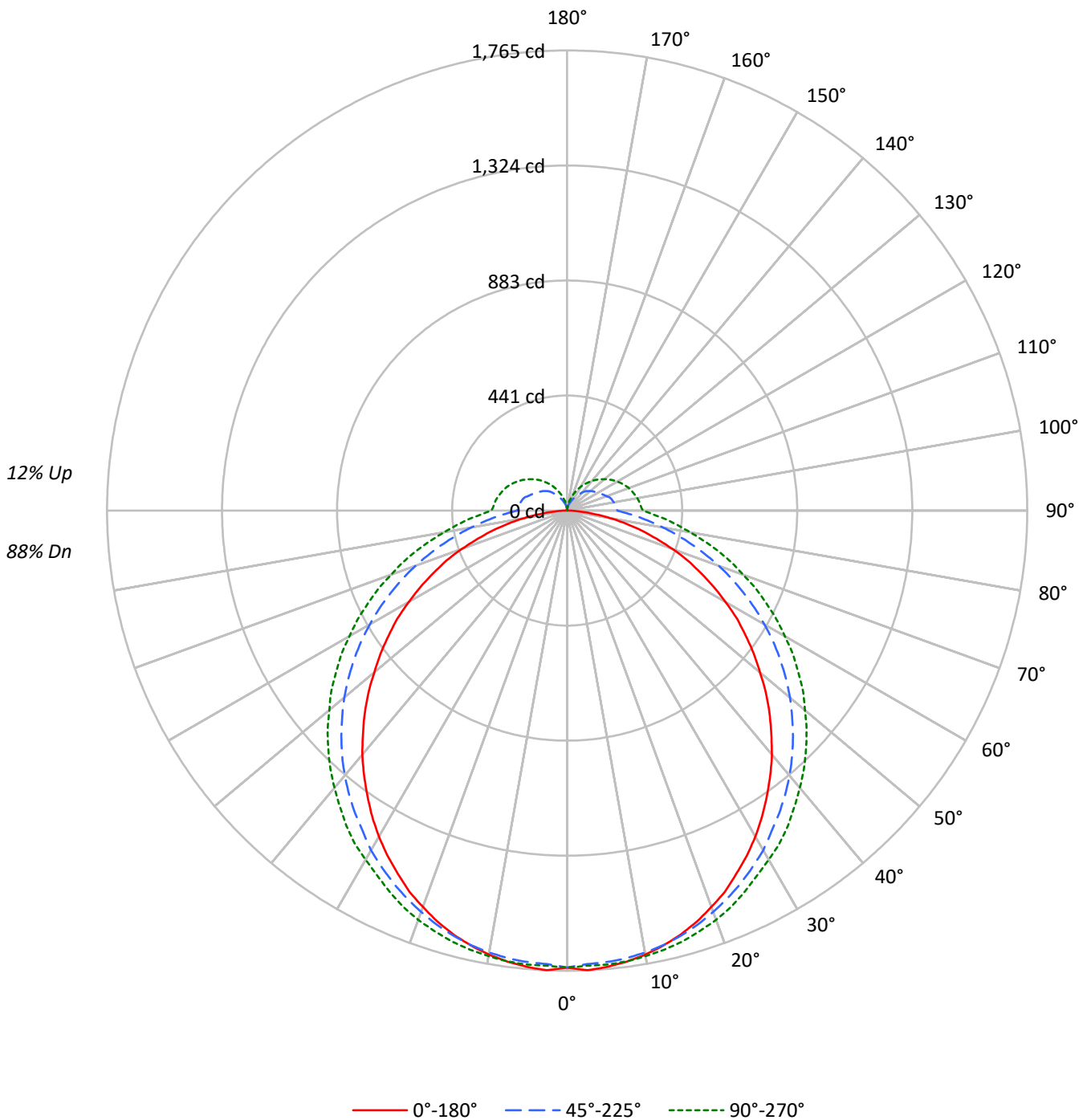
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6310.0 lumens
Efficiency: N/A
Efficacy: 114.5 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	
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°	18866	18866	18866
5°	18915	17997	17850
10°	18759	17287	16973
15°	18553	16583	16172
20°	18252	15871	15400
25°	17902	15178	14607
30°	17521	14501	13878
35°	17053	13792	13223
40°	16592	13127	12511
45°	16044	12428	11833
50°	15411	11705	11112
55°	14795	10912	10398
60°	14081	10077	9630
65°	13212	9169	8835
70°	12114	8187	7974
75°	10578	7111	7150
80°	8453	6035	6207
85°	5421	5001	5418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	2.6
10°-20°	478.6	7.6
20°-30°	728.1	11.5
30°-40°	885.3	14.0
40°-50°	936.7	14.8
50°-60°	878.0	13.9
60°-70°	722.3	11.4
70°-80°	499.8	7.9
80°-90°	277.9	4.4
90°-100°	183.1	2.9
100°-110°	164.2	2.6
110°-120°	135.9	2.2
120°-130°	105.1	1.7
130°-140°	74.4	1.2
140°-150°	44.9	0.7
150°-160°	21.5	0.3
160°-170°	7.1	0.1
170°-180°	0.9	0.0
0°-30°	1373.1	21.8
0°-40°	2258.5	35.8
0°-60°	4073.2	64.6
0°-90°	5573.1	88.3
90°-120°	483.2	7.7
90°-150°	707.4	11.2
90°-180°	737.0	11.7
0°-180°	6310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1757	1754	1739	1753	1748	167
15°	1684	1689	1688	1710	1710	475
25°	1537	1558	1576	1611	1612	708
35°	1336	1371	1418	1463	1476	836
45°	1098	1155	1225	1280	1296	846
55°	835	910	997	1060	1082	748
65°	565	646	747	820	843	560
75°	294	379	491	568	600	312
85°	65	161	272	348	378	75
90°	1	91	192	265	291	4
95°	1	86	187	256	281	1
105°	1	75	175	241	263	1
115°	2	65	148	214	238	2
125°	2	55	126	183	205	2
135°	2	43	106	150	169	2
145°	2	31	74	114	128	1
155°	3	22	45	72	84	1
165°	3	14	25	34	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°	1752.7	1752.7	1752.7	1752.7	1752.7
2.5°	1764.6	1759.2	1740.8	1752.7	1747.3
5°	1757.0	1753.8	1738.6	1752.7	1748.4
7.5°	1745.1	1744.0	1732.1	1748.4	1744.0
10°	1728.9	1731.1	1721.3	1738.6	1735.4
12.5°	1708.4	1711.6	1707.3	1726.7	1724.6
15°	1683.5	1688.9	1687.8	1710.5	1710.5
17.5°	1653.3	1660.8	1665.1	1691.1	1691.1
20°	1617.6	1629.5	1638.1	1666.2	1670.6
22.5°	1581.9	1596.0	1609.0	1638.1	1644.6
25°	1536.6	1558.2	1576.5	1611.1	1612.2
27.5°	1492.3	1516.0	1540.9	1574.4	1577.6
30°	1443.6	1473.9	1504.1	1536.6	1546.3
32.5°	1391.8	1425.3	1458.8	1502.0	1515.0
35°	1335.6	1371.2	1417.7	1463.1	1476.0
37.5°	1279.4	1319.4	1373.4	1419.9	1431.7
40°	1222.1	1266.4	1326.9	1374.5	1388.5
42.5°	1158.4	1212.4	1277.2	1328.0	1344.2
45°	1097.9	1155.1	1225.4	1280.5	1295.6
47.5°	1034.1	1094.6	1170.3	1228.6	1245.9
50°	966.0	1035.2	1116.2	1174.6	1190.8
52.5°	902.3	972.5	1057.9	1118.4	1141.1
55°	835.3	909.8	997.4	1060.0	1081.6
57.5°	772.6	843.9	937.9	1000.6	1027.6
60°	701.3	780.2	874.2	942.3	963.9
62.5°	634.3	714.3	811.5	881.7	906.6
65°	565.1	646.2	746.7	820.1	842.8
67.5°	500.3	580.3	682.9	755.3	784.5
70°	429.0	513.3	618.1	692.6	717.5
72.5°	358.7	446.3	553.2	633.2	661.3
75°	293.9	379.3	490.6	568.4	599.7
77.5°	231.2	317.7	430.1	510.0	537.0
80°	168.6	259.3	373.9	452.8	478.7
82.5°	111.3	206.4	319.8	398.7	426.8
85°	64.8	161.0	272.3	347.9	378.2
87.5°	28.1	122.1	228.0	302.6	327.4
90°	1.1	90.8	192.3	264.7	290.7
92.5°	1.1	88.6	188.0	259.3	284.2
95°	1.1	86.4	186.9	256.1	280.9
97.5°	1.1	85.4	184.8	253.9	277.7
100°	1.1	82.1	181.5	249.6	273.4
102.5°	1.1	77.8	178.3	245.3	268.0
105°	1.1	74.6	175.1	241.0	262.6
107.5°	1.1	71.3	169.6	235.6	257.2
110°	1.1	68.1	161.0	230.2	251.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	67.0	154.5	222.6	245.3
115°	2.2	64.8	148.0	214.0	237.7
117.5°	2.2	63.8	142.6	205.3	230.2
120°	2.2	60.5	137.2	197.7	221.5
122.5°	2.2	57.3	131.8	190.2	214.0
125°	2.2	55.1	126.4	182.6	205.3
127.5°	2.2	51.9	122.1	175.1	195.6
130°	2.2	49.7	116.7	166.4	186.9
132.5°	2.2	46.5	111.3	157.8	177.2
135°	2.2	43.2	105.9	150.2	168.6
137.5°	2.2	38.9	99.4	141.6	158.8
140°	2.2	35.7	90.8	132.9	149.1
142.5°	2.2	33.5	82.1	123.2	138.3
145°	2.2	31.3	73.5	113.5	127.5
147.5°	2.2	29.2	65.9	103.7	116.7
150°	2.2	25.9	58.4	95.1	105.9
152.5°	3.2	23.8	51.9	84.3	95.1
155°	3.2	21.6	45.4	72.4	84.3
157.5°	3.2	19.5	38.9	60.5	73.5
160°	3.2	17.3	33.5	49.7	62.7
162.5°	3.2	16.2	29.2	41.1	52.9
165°	3.2	14.0	24.9	33.5	43.2
167.5°	3.2	10.8	20.5	25.9	35.7
170°	3.2	8.6	16.2	18.4	27.0
172.5°	3.2	6.5	11.9	13.0	14.0
175°	3.2	5.4	7.6	7.6	4.3
177.5°	3.2	4.3	4.3	4.3	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)