

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: P566973

Luminaire Tested: **4SNX-90HL-LN-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-90HL-LN-UNV-L950-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

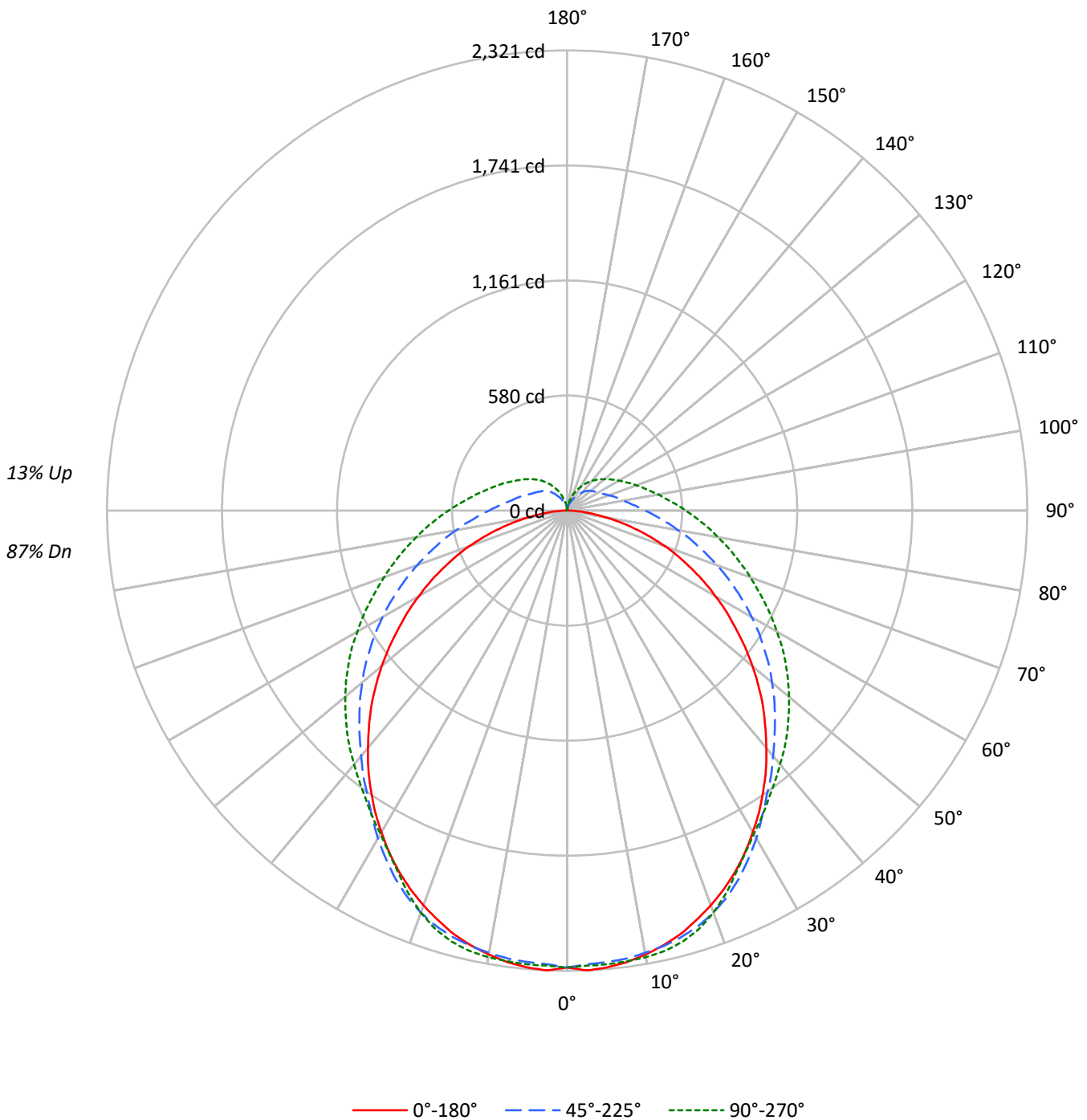
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8319.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 64.4
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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24805	24805	24805
5°	24901	23665	23456
10°	24668	22747	22373
15°	24371	21879	21282
20°	23903	20906	19891
25°	23397	19730	18260
30°	22732	18411	16898
35°	22023	17068	15881
40°	21216	15991	15059
45°	20425	15034	14350
50°	19486	14153	13634
55°	18385	13270	12935
60°	17330	12388	12203
65°	16158	11500	11532
70°	14817	10666	10925
75°	12741	9853	10426
80°	10043	9151	10003
85°	6726	8652	9760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	2.6
10°-20°	629.4	7.6
20°-30°	937.3	11.3
30°-40°	1105.9	13.3
40°-50°	1153.4	13.9
50°-60°	1083.9	13.0
60°-70°	915.3	11.0
70°-80°	691.6	8.3
80°-90°	476.8	5.7
90°-100°	333.6	4.0
100°-110°	249.0	3.0
110°-120°	187.7	2.3
120°-130°	140.0	1.7
130°-140°	98.2	1.2
140°-150°	59.4	0.7
150°-160°	28.4	0.3
160°-170°	9.1	0.1
170°-180°	1.1	0.0
0°-30°	1785.6	21.5
0°-40°	2891.6	34.8
0°-60°	5128.8	61.7
0°-90°	7212.5	86.7
90°-120°	770.3	9.3
90°-150°	1067.9	12.8
90°-180°	1106.0	13.3
0°-180°	8319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2304	2304	2304	2304	2304	
5°	2313	2309	2286	2303	2298	219
15°	2211	2221	2227	2255	2251	623
25°	2008	2049	2049	2031	2015	924
35°	1725	1788	1754	1769	1773	1079
45°	1398	1467	1482	1543	1571	1076
55°	1038	1127	1213	1310	1346	931
65°	691	801	936	1059	1100	686
75°	354	491	680	822	874	377
85°	80	252	471	626	681	90
90°	1	179	394	544	598	6
95°	1	140	333	477	526	1
105°	3	100	257	372	415	3
115°	3	86	199	296	334	3
125°	4	73	168	243	274	4
135°	4	56	140	197	221	3
145°	6	41	97	151	169	3
155°	6	27	59	96	111	3
165°	7	17	31	42	56	2
175°	7	7	8	8	4	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2304.5	2304.5	2304.5	2304.5	2304.5
2.5°	2321.4	2315.8	2290.4	2304.5	2297.5
5°	2313.0	2308.7	2286.2	2303.1	2297.5
7.5°	2297.5	2296.1	2279.1	2298.9	2293.2
10°	2273.5	2277.7	2265.0	2291.8	2287.6
12.5°	2245.3	2253.7	2249.5	2279.1	2274.9
15°	2211.4	2221.3	2226.9	2255.2	2250.9
17.5°	2166.3	2184.6	2197.3	2219.9	2212.8
20°	2118.4	2143.7	2157.8	2169.1	2157.8
22.5°	2066.2	2100.0	2108.5	2102.8	2091.6
25°	2008.3	2049.2	2049.2	2030.9	2015.4
27.5°	1943.5	1994.2	1980.1	1959.0	1946.3
30°	1872.9	1933.6	1909.6	1885.6	1882.8
32.5°	1802.4	1865.9	1830.6	1825.0	1829.2
35°	1724.9	1788.3	1754.5	1768.6	1772.8
37.5°	1647.3	1710.8	1688.2	1709.3	1722.0
40°	1562.7	1630.4	1616.3	1654.3	1671.3
42.5°	1479.5	1550.0	1548.6	1597.9	1623.3
45°	1397.7	1466.8	1482.3	1542.9	1571.1
47.5°	1308.8	1379.3	1417.4	1487.9	1516.1
50°	1221.4	1297.5	1349.7	1428.7	1461.1
52.5°	1131.1	1211.5	1283.4	1370.9	1404.7
55°	1038.0	1126.9	1212.9	1310.2	1345.5
57.5°	954.8	1045.1	1146.6	1246.8	1287.7
60°	863.1	963.3	1074.7	1180.5	1221.4
62.5°	779.9	882.9	1007.0	1118.4	1162.1
65°	691.1	801.1	936.5	1059.2	1100.1
67.5°	609.3	722.1	870.2	994.3	1039.4
70°	524.7	644.5	805.3	936.5	983.0
72.5°	437.2	564.1	740.4	880.1	928.0
75°	354.0	490.8	679.8	822.2	874.4
77.5°	276.4	420.3	624.8	771.5	822.2
80°	200.3	356.8	567.0	719.3	771.5
82.5°	132.6	301.8	520.4	672.7	727.7
85°	80.4	252.5	471.1	626.2	681.2
87.5°	36.7	211.6	431.6	585.3	638.9
90°	1.4	179.1	393.5	544.4	598.0
92.5°	1.4	156.5	362.5	509.1	561.3
95°	1.4	139.6	332.8	476.7	526.1
97.5°	1.4	128.3	310.3	445.7	493.6
100°	1.4	117.1	287.7	417.5	466.8
102.5°	2.8	107.2	270.8	392.1	438.6
105°	2.8	100.1	256.7	372.3	414.6
107.5°	2.8	95.9	241.2	352.6	392.1
110°	2.8	91.7	224.2	332.8	372.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	88.9	211.6	315.9	354.0
115°	2.8	86.0	198.9	296.2	334.3
117.5°	2.8	84.6	191.8	280.7	317.3
120°	4.2	80.4	183.3	266.6	301.8
122.5°	4.2	76.2	174.9	255.3	286.3
125°	4.2	73.3	167.8	242.6	273.6
127.5°	4.2	69.1	160.8	231.3	259.5
130°	4.2	64.9	155.1	220.0	246.8
132.5°	4.2	60.6	148.1	208.7	234.1
135°	4.2	56.4	139.6	197.4	221.4
137.5°	4.2	52.2	131.2	186.2	208.7
140°	4.2	48.0	119.9	174.9	196.0
142.5°	4.2	43.7	108.6	163.6	181.9
145°	5.6	40.9	97.3	150.9	169.2
147.5°	5.6	36.7	86.0	138.2	153.7
150°	5.6	33.8	77.6	125.5	139.6
152.5°	5.6	29.6	69.1	111.4	125.5
155°	5.6	26.8	59.2	95.9	111.4
157.5°	5.6	24.0	50.8	80.4	97.3
160°	5.6	22.6	43.7	66.3	83.2
162.5°	7.1	19.7	36.7	53.6	69.1
165°	7.1	16.9	31.0	42.3	56.4
167.5°	7.1	14.1	25.4	32.4	43.7
170°	7.1	11.3	19.7	22.6	33.8
172.5°	7.1	8.5	14.1	15.5	16.9
175°	7.1	7.1	8.5	8.5	4.2
177.5°	7.1	7.1	5.6	4.2	1.4
180°	4.2	4.2	4.2	4.2	4.2

(END OF REPORT)