

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: P567021

Luminaire Tested: **4SNX-93HL-LN-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567021
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-93HL-LN-UNV-L950-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

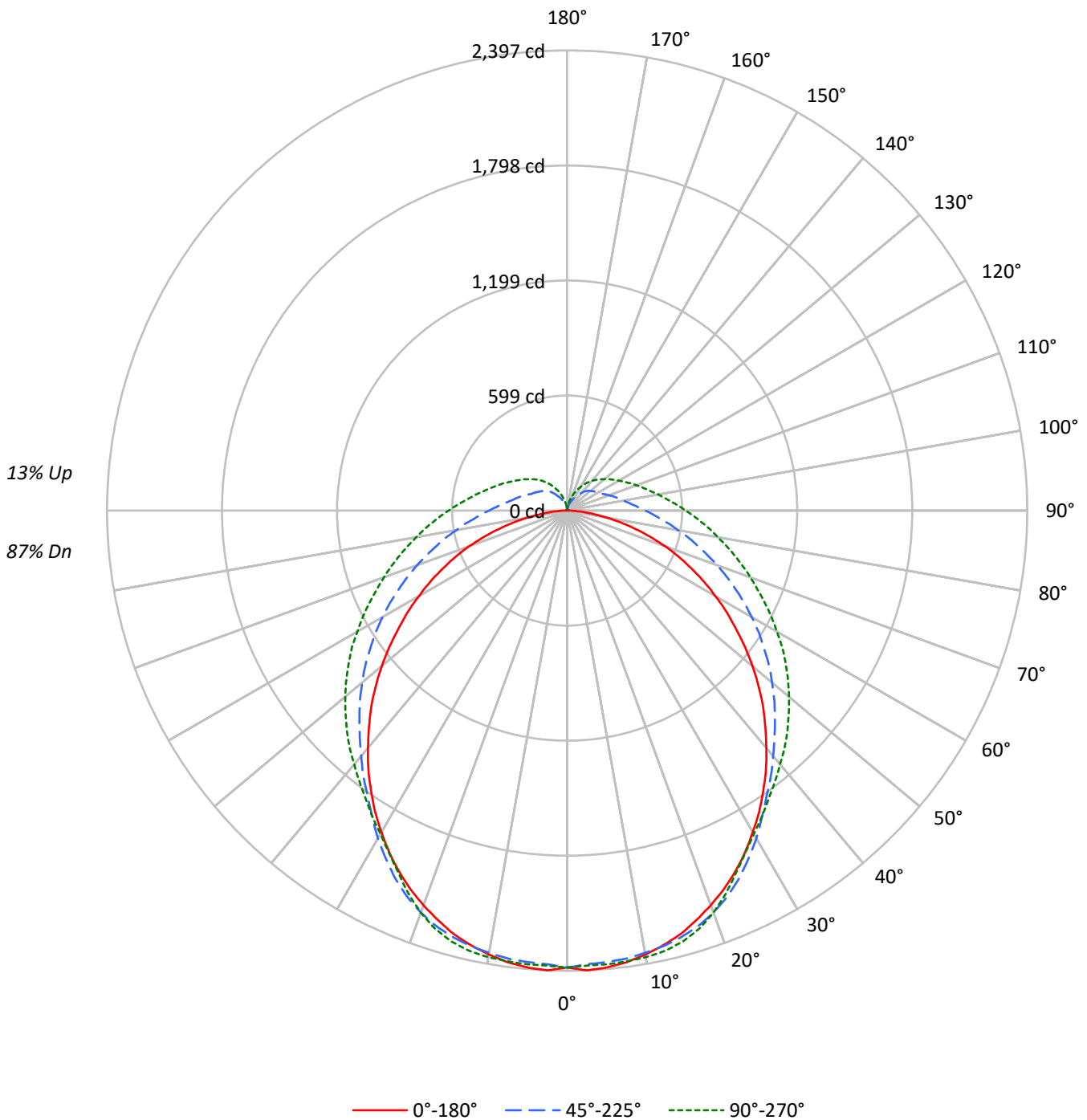
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8591.0 lumens
Efficiency: N/A
Efficacy: 127.5 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): 67.4
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	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°	25617	25617	25617
5°	25715	24439	24223
10°	25474	23492	23105
15°	25168	22596	21977
20°	24684	21590	20541
25°	24163	20375	18857
30°	23476	19013	17450
35°	22743	17626	16401
40°	21910	16513	15551
45°	21093	15525	14819
50°	20122	14616	14080
55°	18988	13704	13358
60°	17898	12793	12602
65°	16687	11876	11908
70°	15300	11014	11283
75°	13159	10175	10767
80°	10369	9450	10330
85°	6944	8934	10079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	2.6
10°-20°	650.0	7.6
20°-30°	967.9	11.3
30°-40°	1142.1	13.3
40°-50°	1191.1	13.9
50°-60°	1119.3	13.0
60°-70°	945.3	11.0
70°-80°	714.2	8.3
80°-90°	492.3	5.7
90°-100°	344.5	4.0
100°-110°	257.1	3.0
110°-120°	193.8	2.3
120°-130°	144.5	1.7
130°-140°	101.5	1.2
140°-150°	61.3	0.7
150°-160°	29.3	0.3
160°-170°	9.4	0.1
170°-180°	1.1	0.0
0°-30°	1844.0	21.5
0°-40°	2986.1	34.8
0°-60°	5296.5	61.7
0°-90°	7448.3	86.7
90°-120°	795.5	9.3
90°-150°	1102.8	12.8
90°-180°	1143.0	13.3
0°-180°	8591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2380	2380	2380	2380	2380	
5°	2389	2384	2361	2378	2373	227
15°	2284	2294	2300	2329	2324	643
25°	2074	2116	2116	2097	2081	954
35°	1781	1847	1812	1826	1831	1114
45°	1443	1515	1531	1593	1622	1112
55°	1072	1164	1253	1353	1390	962
65°	714	827	967	1094	1136	709
75°	366	507	702	849	903	389
85°	83	261	486	647	704	93
90°	2	185	406	562	618	6
95°	2	144	344	492	543	1
105°	3	103	265	384	428	3
115°	3	89	205	306	345	3
125°	4	76	173	250	283	4
135°	4	58	144	204	229	3
145°	6	42	100	156	175	3
155°	6	28	61	99	115	3
165°	7	18	32	44	58	2
175°	7	7	9	9	4	1
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-93HL-LN-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2379.9	2379.9	2379.9	2379.9	2379.9
2.5°	2397.3	2391.5	2365.3	2379.9	2372.6
5°	2388.6	2384.2	2360.9	2378.4	2372.6
7.5°	2372.6	2371.1	2353.7	2374.0	2368.2
10°	2347.8	2352.2	2339.1	2366.8	2362.4
12.5°	2318.7	2327.4	2323.1	2353.7	2349.3
15°	2283.7	2293.9	2299.8	2328.9	2324.5
17.5°	2237.1	2256.1	2269.2	2292.5	2285.2
20°	2187.6	2213.8	2228.4	2240.0	2228.4
22.5°	2133.7	2168.7	2177.4	2171.6	2159.9
25°	2074.0	2116.2	2116.2	2097.3	2081.3
27.5°	2007.0	2059.4	2044.9	2023.0	2009.9
30°	1934.2	1996.8	1972.1	1947.3	1944.4
32.5°	1861.4	1926.9	1890.5	1884.7	1889.0
35°	1781.3	1846.8	1811.8	1826.4	1830.8
37.5°	1701.2	1766.7	1743.4	1765.2	1778.3
40°	1613.8	1683.7	1669.1	1708.4	1725.9
42.5°	1527.8	1600.7	1599.2	1650.2	1676.4
45°	1443.4	1514.7	1530.7	1593.4	1622.5
47.5°	1351.6	1424.4	1463.7	1536.6	1565.7
50°	1261.3	1339.9	1393.8	1475.4	1508.9
52.5°	1168.1	1251.1	1325.4	1415.7	1450.6
55°	1072.0	1163.7	1252.6	1353.1	1389.5
57.5°	986.0	1079.2	1184.1	1287.5	1329.8
60°	891.4	994.8	1109.8	1219.1	1261.3
62.5°	805.4	911.7	1039.9	1155.0	1200.1
65°	713.7	827.3	967.1	1093.8	1136.0
67.5°	629.2	745.7	898.6	1026.8	1073.4
70°	541.8	665.6	831.6	967.1	1015.2
72.5°	451.5	582.6	764.6	908.8	958.4
75°	365.6	506.9	702.0	849.1	903.0
77.5°	285.5	434.0	645.2	796.7	849.1
80°	206.8	368.5	585.5	742.8	796.7
82.5°	136.9	311.7	537.4	694.7	751.5
85°	83.0	260.7	486.5	646.7	703.5
87.5°	37.9	218.5	445.7	604.4	659.8
90°	1.5	185.0	406.4	562.2	617.5
92.5°	1.5	161.7	374.3	525.8	579.7
95°	1.5	144.2	343.7	492.3	543.3
97.5°	1.5	132.5	320.4	460.2	509.8
100°	1.5	120.9	297.1	431.1	482.1
102.5°	2.9	110.7	279.6	404.9	453.0
105°	2.9	103.4	265.1	384.5	428.2
107.5°	2.9	99.0	249.1	364.1	404.9
110°	2.9	94.7	231.6	343.7	384.5



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CATALOG NUMBER: 4SNX-93HL-LN-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	91.8	218.5	326.2	365.6
115°	2.9	88.8	205.4	305.9	345.2
117.5°	2.9	87.4	198.1	289.8	327.7
120°	4.4	83.0	189.3	275.3	311.7
122.5°	4.4	78.6	180.6	263.6	295.7
125°	4.4	75.7	173.3	250.5	282.6
127.5°	4.4	71.4	166.0	238.9	268.0
130°	4.4	67.0	160.2	227.2	254.9
132.5°	4.4	62.6	152.9	215.6	241.8
135°	4.4	58.3	144.2	203.9	228.7
137.5°	4.4	53.9	135.5	192.3	215.6
140°	4.4	49.5	123.8	180.6	202.4
142.5°	4.4	45.2	112.1	169.0	187.9
145°	5.8	42.2	100.5	155.8	174.8
147.5°	5.8	37.9	88.8	142.7	158.8
150°	5.8	35.0	80.1	129.6	144.2
152.5°	5.8	30.6	71.4	115.1	129.6
155°	5.8	27.7	61.2	99.0	115.1
157.5°	5.8	24.8	52.4	83.0	100.5
160°	5.8	23.3	45.2	68.5	85.9
162.5°	7.3	20.4	37.9	55.3	71.4
165°	7.3	17.5	32.0	43.7	58.3
167.5°	7.3	14.6	26.2	33.5	45.2
170°	7.3	11.7	20.4	23.3	35.0
172.5°	7.3	8.7	14.6	16.0	17.5
175°	7.3	7.3	8.7	8.7	4.4
177.5°	7.3	7.3	5.8	4.4	1.5
180°	4.4	4.4	4.4	4.4	4.4

(END OF REPORT)