

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: P567029

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567029
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-93HL-LW-UNV-L950-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

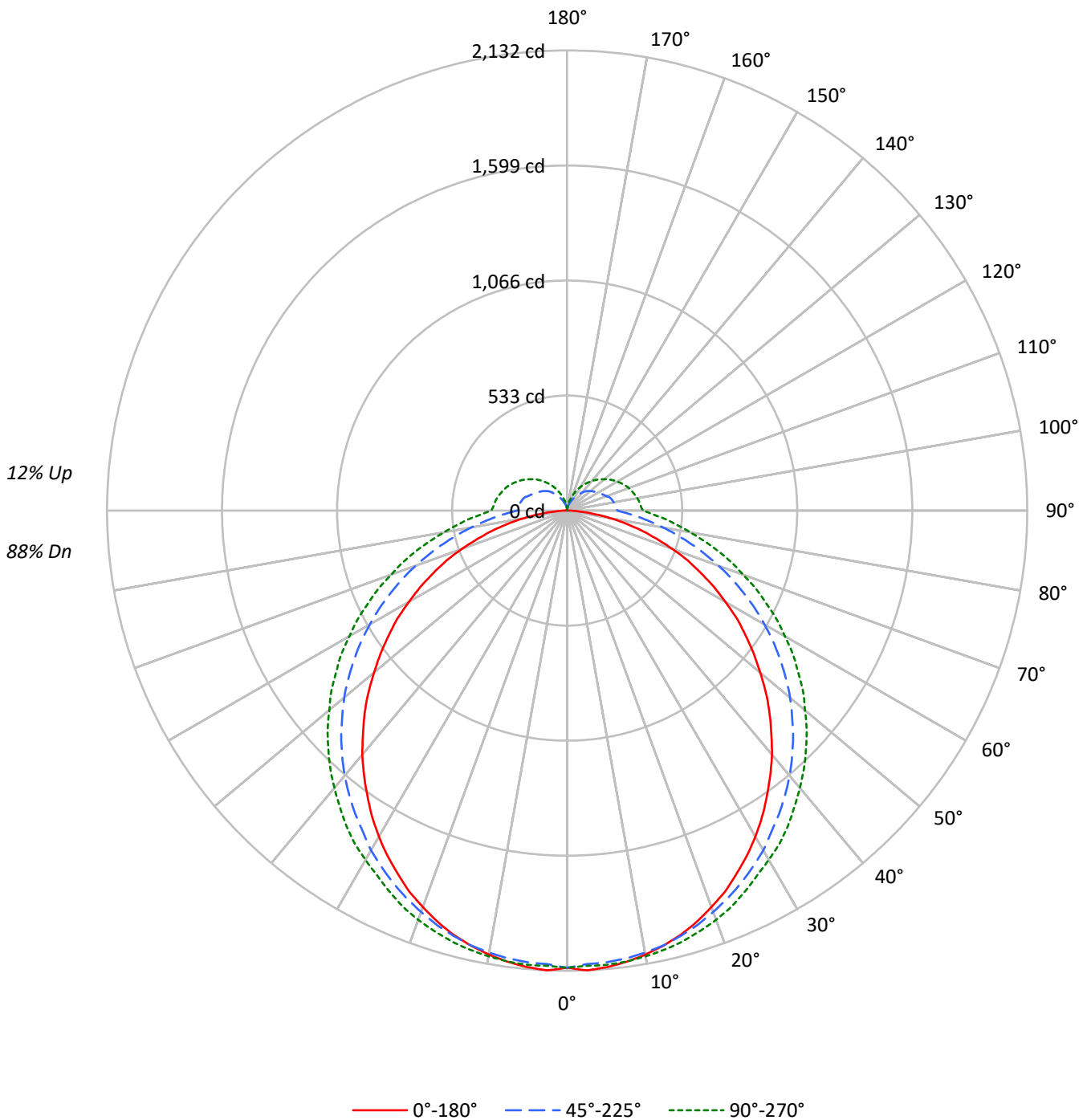
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7624.0 lumens
Efficiency: N/A
Efficacy: 113.1 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): 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	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°	22795	22795	22795
5°	22855	21745	21567
10°	22665	20887	20507
15°	22417	20036	19540
20°	22054	19176	18606
25°	21629	18339	17648
30°	21171	17522	16767
35°	20603	16664	15976
40°	20047	15862	15117
45°	19385	15016	14297
50°	18621	14143	13426
55°	17875	13184	12564
60°	17013	12175	11636
65°	15964	11079	10675
70°	14636	9891	9635
75°	12781	8591	8639
80°	10213	7290	7499
85°	6550	6042	6547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	2.6
10°-20°	578.3	7.6
20°-30°	879.8	11.5
30°-40°	1069.7	14.0
40°-50°	1131.7	14.8
50°-60°	1060.8	13.9
60°-70°	872.7	11.4
70°-80°	603.8	7.9
80°-90°	335.8	4.4
90°-100°	221.2	2.9
100°-110°	198.4	2.6
110°-120°	164.2	2.2
120°-130°	126.9	1.7
130°-140°	89.9	1.2
140°-150°	54.2	0.7
150°-160°	26.0	0.3
160°-170°	8.5	0.1
170°-180°	1.0	0.0
0°-30°	1659.1	21.8
0°-40°	2728.8	35.8
0°-60°	4921.3	64.6
0°-90°	6733.7	88.3
90°-120°	583.7	7.7
90°-150°	854.7	11.2
90°-180°	890.0	11.7
0°-180°	7624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2123	2119	2101	2118	2112	202
15°	2034	2041	2039	2067	2067	573
25°	1856	1883	1905	1947	1948	856
35°	1614	1657	1713	1768	1783	1010
45°	1326	1396	1480	1547	1565	1022
55°	1009	1099	1205	1281	1307	903
65°	683	781	902	991	1018	677
75°	355	458	593	687	725	377
85°	78	194	329	420	457	90
90°	1	110	232	320	351	5
95°	1	104	226	309	340	1
105°	1	90	212	291	317	1
115°	3	78	179	258	287	2
125°	3	67	153	221	248	2
135°	3	52	128	182	204	2
145°	3	38	89	137	154	2
155°	4	26	55	88	102	2
165°	4	17	30	40	52	1
175°	4	6	9	9	5	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2117.7	2117.7	2117.7	2117.7	2117.7
2.5°	2132.0	2125.5	2103.3	2117.7	2111.1
5°	2122.9	2119.0	2100.7	2117.7	2112.4
7.5°	2108.5	2107.2	2092.8	2112.4	2107.2
10°	2088.9	2091.5	2079.8	2100.7	2096.8
12.5°	2064.1	2068.0	2062.8	2086.3	2083.7
15°	2034.1	2040.6	2039.3	2066.7	2066.7
17.5°	1997.5	2006.7	2011.9	2043.2	2043.2
20°	1954.5	1968.8	1979.3	2013.2	2018.4
22.5°	1911.4	1928.3	1944.0	1979.3	1987.1
25°	1856.5	1882.6	1904.8	1946.6	1947.9
27.5°	1803.0	1831.7	1861.8	1902.2	1906.1
30°	1744.3	1780.8	1817.4	1856.5	1868.3
32.5°	1681.6	1722.1	1762.5	1814.8	1830.4
35°	1613.7	1656.8	1712.9	1767.8	1783.4
37.5°	1545.8	1594.1	1659.4	1715.5	1729.9
40°	1476.6	1530.1	1603.3	1660.7	1677.7
42.5°	1399.6	1464.9	1543.2	1604.6	1624.1
45°	1326.5	1395.7	1480.5	1547.1	1565.4
47.5°	1249.4	1322.6	1413.9	1484.4	1505.3
50°	1167.2	1250.7	1348.7	1419.2	1438.8
52.5°	1090.2	1175.0	1278.2	1351.3	1378.7
55°	1009.2	1099.3	1205.1	1280.8	1306.9
57.5°	933.5	1019.7	1133.2	1209.0	1241.6
60°	847.3	942.6	1056.2	1138.5	1164.6
62.5°	766.4	863.0	980.5	1065.4	1095.4
65°	682.8	780.7	902.2	990.9	1018.4
67.5°	604.5	701.1	825.1	912.6	947.9
70°	518.3	620.2	746.8	836.9	866.9
72.5°	433.5	539.2	668.5	765.1	799.0
75°	355.1	458.3	592.7	686.7	724.6
77.5°	279.4	383.8	519.6	616.2	648.9
80°	203.7	313.3	451.7	547.0	578.4
82.5°	134.5	249.4	386.5	481.8	515.7
85°	78.3	194.5	329.0	420.4	457.0
87.5°	33.9	147.5	275.5	365.6	395.6
90°	1.3	109.7	232.4	319.9	351.2
92.5°	1.3	107.1	227.2	313.3	343.4
95°	1.3	104.4	225.9	309.4	339.5
97.5°	1.3	103.1	223.3	306.8	335.5
100°	1.3	99.2	219.3	301.6	330.3
102.5°	1.3	94.0	215.4	296.4	323.8
105°	1.3	90.1	211.5	291.1	317.3
107.5°	1.3	86.2	205.0	284.6	310.7
110°	1.3	82.3	194.5	278.1	304.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	80.9	186.7	268.9	296.4
115°	2.6	78.3	178.9	258.5	287.2
117.5°	2.6	77.0	172.3	248.1	278.1
120°	2.6	73.1	165.8	238.9	267.6
122.5°	2.6	69.2	159.3	229.8	258.5
125°	2.6	66.6	152.8	220.6	248.1
127.5°	2.6	62.7	147.5	211.5	236.3
130°	2.6	60.1	141.0	201.1	225.9
132.5°	2.6	56.1	134.5	190.6	214.1
135°	2.6	52.2	127.9	181.5	203.7
137.5°	2.6	47.0	120.1	171.0	191.9
140°	2.6	43.1	109.7	160.6	180.2
142.5°	2.6	40.5	99.2	148.8	167.1
145°	2.6	37.9	88.8	137.1	154.1
147.5°	2.6	35.3	79.6	125.3	141.0
150°	2.6	31.3	70.5	114.9	127.9
152.5°	3.9	28.7	62.7	101.8	114.9
155°	3.9	26.1	54.8	87.5	101.8
157.5°	3.9	23.5	47.0	73.1	88.8
160°	3.9	20.9	40.5	60.1	75.7
162.5°	3.9	19.6	35.3	49.6	64.0
165°	3.9	17.0	30.0	40.5	52.2
167.5°	3.9	13.1	24.8	31.3	43.1
170°	3.9	10.4	19.6	22.2	32.6
172.5°	3.9	7.8	14.4	15.7	17.0
175°	3.9	6.5	9.1	9.1	5.2
177.5°	3.9	5.2	5.2	5.2	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)