

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: P567028

Luminaire Tested: **4SNX-93HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567028
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-L940-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

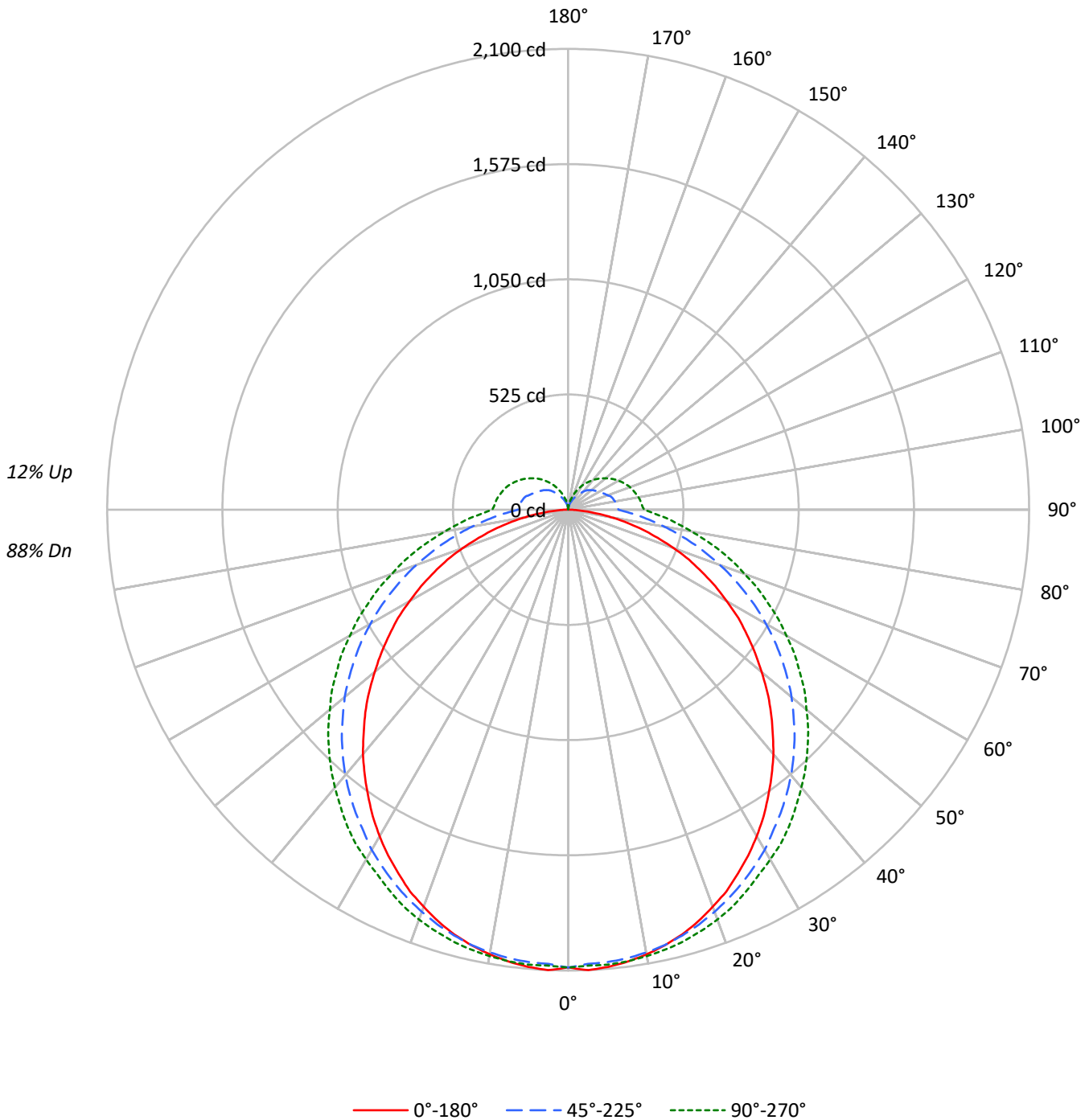
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7510.0 lumens
Efficiency: N/A
Efficacy: 111.4 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°	22454	22454	22454
5°	22512	21420	21244
10°	22327	20575	20200
15°	22082	19736	19248
20°	21723	18890	18327
25°	21306	18066	17384
30°	20854	17259	16517
35°	20296	16415	15738
40°	19747	15624	14891
45°	19094	14792	14084
50°	18342	13931	13225
55°	17608	12986	12375
60°	16760	11993	11462
65°	15726	10913	10515
70°	14419	9743	9490
75°	12590	8463	8511
80°	10058	7182	7386
85°	6458	5952	6449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	2.6
10°-20°	569.7	7.6
20°-30°	866.6	11.5
30°-40°	1053.7	14.0
40°-50°	1114.8	14.8
50°-60°	1045.0	13.9
60°-70°	859.7	11.4
70°-80°	594.8	7.9
80°-90°	330.8	4.4
90°-100°	217.9	2.9
100°-110°	195.4	2.6
110°-120°	161.7	2.2
120°-130°	125.0	1.7
130°-140°	88.5	1.2
140°-150°	53.4	0.7
150°-160°	25.6	0.3
160°-170°	8.4	0.1
170°-180°	1.0	0.0
0°-30°	1634.3	21.8
0°-40°	2688.0	35.8
0°-60°	4847.8	64.6
0°-90°	6633.0	88.3
90°-120°	575.0	7.7
90°-150°	842.0	11.2
90°-180°	877.0	11.7
0°-180°	7510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2086	2086	2086	2086	2086	
5°	2091	2087	2069	2086	2081	198
15°	2004	2010	2009	2036	2036	565
25°	1829	1854	1876	1918	1919	843
35°	1590	1632	1687	1741	1757	995
45°	1307	1375	1458	1524	1542	1007
55°	994	1083	1187	1262	1287	890
65°	673	769	889	976	1003	667
75°	350	451	584	676	714	371
85°	77	192	324	414	450	89
90°	1	108	229	315	346	5
95°	1	103	222	305	334	1
105°	1	89	208	287	312	1
115°	3	77	176	255	283	2
125°	3	66	150	217	244	2
135°	3	51	126	179	201	2
145°	3	37	88	135	152	2
155°	4	26	54	86	100	2
165°	4	17	30	40	51	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°	2086.0	2086.0	2086.0	2086.0	2086.0
2.5°	2100.1	2093.7	2071.8	2086.0	2079.6
5°	2091.1	2087.3	2069.3	2086.0	2080.8
7.5°	2077.0	2075.7	2061.6	2080.8	2075.7
10°	2057.7	2060.3	2048.7	2069.3	2065.4
12.5°	2033.3	2037.1	2032.0	2055.1	2052.6
15°	2003.7	2010.1	2008.8	2035.8	2035.8
17.5°	1967.7	1976.7	1981.8	2012.7	2012.7
20°	1925.2	1939.4	1949.7	1983.1	1988.2
22.5°	1882.8	1899.5	1914.9	1949.7	1957.4
25°	1828.8	1854.5	1876.4	1917.5	1918.8
27.5°	1776.0	1804.3	1833.9	1873.8	1877.6
30°	1718.2	1754.2	1790.2	1828.8	1840.4
32.5°	1656.4	1696.3	1736.2	1787.6	1803.1
35°	1589.6	1632.0	1687.3	1741.3	1756.8
37.5°	1522.7	1570.3	1634.6	1689.9	1704.0
40°	1454.5	1507.3	1579.3	1635.9	1652.6
42.5°	1378.7	1443.0	1520.1	1580.6	1599.9
45°	1306.6	1374.8	1458.4	1524.0	1542.0
47.5°	1230.8	1302.8	1392.8	1462.2	1482.8
50°	1149.7	1232.0	1328.5	1397.9	1417.2
52.5°	1073.9	1157.5	1259.1	1331.1	1358.1
55°	994.1	1082.9	1187.0	1261.6	1287.3
57.5°	919.5	1004.4	1116.3	1190.9	1223.0
60°	834.7	928.5	1040.4	1121.4	1147.2
62.5°	754.9	850.1	965.8	1049.4	1079.0
65°	672.6	769.1	888.7	976.1	1003.1
67.5°	595.4	690.6	812.8	899.0	933.7
70°	510.6	610.9	735.6	824.4	853.9
72.5°	427.0	531.1	658.5	753.6	787.1
75°	349.8	451.4	583.9	676.5	713.8
77.5°	275.2	378.1	511.9	607.0	639.2
80°	200.6	308.7	445.0	538.9	569.7
82.5°	132.5	245.6	380.7	474.6	508.0
85°	77.2	191.6	324.1	414.1	450.1
87.5°	33.4	145.3	271.4	360.1	389.7
90°	1.3	108.0	228.9	315.1	345.9
92.5°	1.3	105.5	223.8	308.7	338.2
95°	1.3	102.9	222.5	304.8	334.4
97.5°	1.3	101.6	219.9	302.2	330.5
100°	1.3	97.7	216.1	297.1	325.4
102.5°	1.3	92.6	212.2	291.9	318.9
105°	1.3	88.7	208.3	286.8	312.5
107.5°	1.3	84.9	201.9	280.4	306.1
110°	1.3	81.0	191.6	273.9	299.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	79.7	183.9	264.9	291.9
115°	2.6	77.2	176.2	254.6	282.9
117.5°	2.6	75.9	169.8	244.4	273.9
120°	2.6	72.0	163.3	235.3	263.6
122.5°	2.6	68.2	156.9	226.3	254.6
125°	2.6	65.6	150.5	217.3	244.4
127.5°	2.6	61.7	145.3	208.3	232.8
130°	2.6	59.2	138.9	198.1	222.5
132.5°	2.6	55.3	132.5	187.8	210.9
135°	2.6	51.4	126.0	178.8	200.6
137.5°	2.6	46.3	118.3	168.5	189.1
140°	2.6	42.4	108.0	158.2	177.5
142.5°	2.6	39.9	97.7	146.6	164.6
145°	2.6	37.3	87.5	135.0	151.8
147.5°	2.6	34.7	78.4	123.5	138.9
150°	2.6	30.9	69.4	113.2	126.0
152.5°	3.9	28.3	61.7	100.3	113.2
155°	3.9	25.7	54.0	86.2	100.3
157.5°	3.9	23.1	46.3	72.0	87.5
160°	3.9	20.6	39.9	59.2	74.6
162.5°	3.9	19.3	34.7	48.9	63.0
165°	3.9	16.7	29.6	39.9	51.4
167.5°	3.9	12.9	24.4	30.9	42.4
170°	3.9	10.3	19.3	21.9	32.2
172.5°	3.9	7.7	14.1	15.4	16.7
175°	3.9	6.4	9.0	9.0	5.1
177.5°	3.9	5.1	5.1	5.1	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)