

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: P567004

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567004
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-FDL-UNV-L940-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

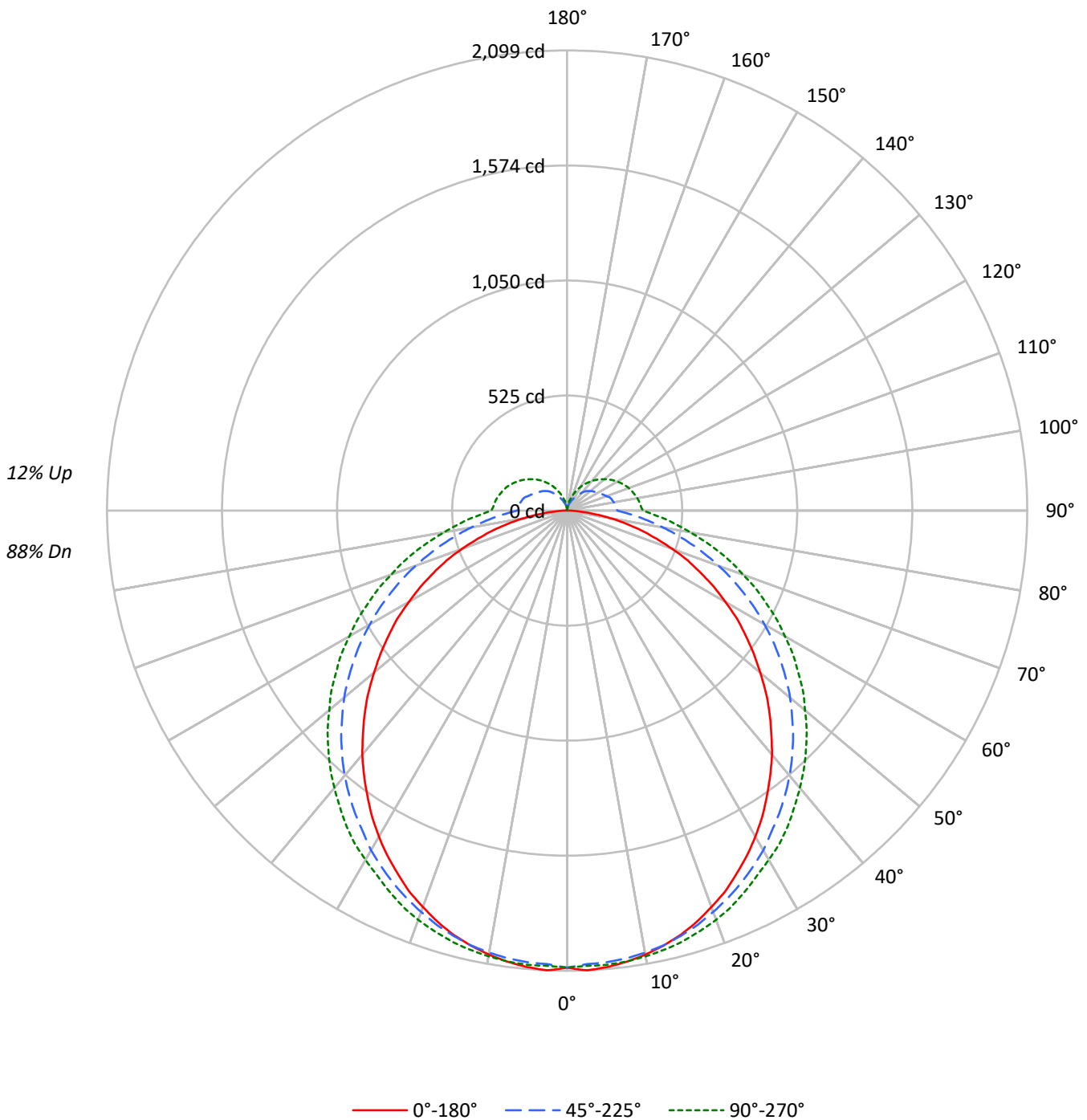
Lumens per Lamp: N/A
Luminaire Lumens: 7506.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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°	22442	22442	22442
5°	22562	22105	22148
10°	22437	21897	21919
15°	22254	21648	21705
20°	21958	21348	21461
25°	21603	21045	21135
30°	21217	20739	20855
35°	20725	20374	20661
40°	20251	20070	20361
45°	19674	19719	20109
50°	19007	19348	19790
55°	18373	18887	19504
60°	17640	18397	19154
65°	16749	17833	18812
70°	15613	17215	18424
75°	13995	16541	18292
80°	11735	16119	18145
85°	8509	16453	19127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	2.6
10°-20°	569.3	7.6
20°-30°	866.1	11.5
30°-40°	1053.1	14.0
40°-50°	1114.2	14.8
50°-60°	1044.4	13.9
60°-70°	859.2	11.4
70°-80°	594.5	7.9
80°-90°	330.6	4.4
90°-100°	217.8	2.9
100°-110°	195.3	2.6
110°-120°	161.6	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°	1633.4	21.8
0°-40°	2686.6	35.8
0°-60°	4845.2	64.6
0°-90°	6629.5	88.3
90°-120°	574.7	7.7
90°-150°	841.5	11.2
90°-180°	877.0	11.7
0°-180°	7506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2085	2085	2085	2085	2085	
5°	2090	2086	2068	2085	2080	198
15°	2003	2009	2008	2035	2035	564
25°	1828	1854	1875	1916	1918	843
35°	1589	1631	1686	1740	1756	994
45°	1306	1374	1458	1523	1541	1007
55°	994	1082	1186	1261	1287	889
65°	672	769	888	976	1003	667
75°	350	451	584	676	713	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	254	283	2
125°	3	66	150	217	244	2
135°	3	51	126	179	200	2
145°	3	37	87	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°	2084.9	2084.9	2084.9	2084.9	2084.9
2.5°	2099.0	2092.6	2070.7	2084.9	2078.4
5°	2090.0	2086.2	2068.2	2084.9	2079.7
7.5°	2075.9	2074.6	2060.5	2079.7	2074.6
10°	2056.6	2059.2	2047.6	2068.2	2064.3
12.5°	2032.2	2036.0	2030.9	2054.0	2051.5
15°	2002.6	2009.0	2007.8	2034.7	2034.7
17.5°	1966.6	1975.6	1980.8	2011.6	2011.6
20°	1924.2	1938.3	1948.6	1982.0	1987.2
22.5°	1881.8	1898.5	1913.9	1948.6	1956.3
25°	1827.8	1853.5	1875.4	1916.5	1917.8
27.5°	1775.1	1803.4	1832.9	1872.8	1876.6
30°	1717.3	1753.3	1789.2	1827.8	1839.4
32.5°	1655.6	1695.4	1735.3	1786.7	1802.1
35°	1588.7	1631.1	1686.4	1740.4	1755.8
37.5°	1521.9	1569.4	1633.7	1689.0	1703.1
40°	1453.8	1506.5	1578.4	1635.0	1651.7
42.5°	1377.9	1442.2	1519.3	1579.7	1599.0
45°	1305.9	1374.1	1457.6	1523.2	1541.2
47.5°	1230.1	1302.1	1392.1	1461.5	1482.0
50°	1149.1	1231.4	1327.8	1397.2	1416.5
52.5°	1073.3	1156.8	1258.4	1330.4	1357.4
55°	993.6	1082.3	1186.4	1261.0	1286.7
57.5°	919.0	1003.9	1115.7	1190.3	1222.4
60°	834.2	928.0	1039.9	1120.8	1146.6
62.5°	754.5	849.6	965.3	1048.9	1078.4
65°	672.3	768.7	888.2	975.6	1002.6
67.5°	595.1	690.2	812.4	898.5	933.2
70°	510.3	610.6	735.2	823.9	853.5
72.5°	426.7	530.9	658.1	753.2	786.6
75°	349.6	451.2	583.6	676.1	713.4
77.5°	275.1	377.9	511.6	606.7	638.8
80°	200.5	308.5	444.7	538.6	569.4
82.5°	132.4	245.5	380.5	474.3	507.7
85°	77.1	191.5	323.9	413.9	449.9
87.5°	33.4	145.2	271.2	359.9	389.5
90°	1.3	108.0	228.8	314.9	345.8
92.5°	1.3	105.4	223.7	308.5	338.1
95°	1.3	102.8	222.4	304.6	334.2
97.5°	1.3	101.5	219.8	302.1	330.3
100°	1.3	97.7	215.9	296.9	325.2
102.5°	1.3	92.5	212.1	291.8	318.8
105°	1.3	88.7	208.2	286.6	312.3
107.5°	1.3	84.8	201.8	280.2	305.9
110°	1.3	81.0	191.5	273.8	299.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	79.7	183.8	264.8	291.8
115°	2.6	77.1	176.1	254.5	282.8
117.5°	2.6	75.8	169.7	244.2	273.8
120°	2.6	72.0	163.2	235.2	263.5
122.5°	2.6	68.1	156.8	226.2	254.5
125°	2.6	65.6	150.4	217.2	244.2
127.5°	2.6	61.7	145.2	208.2	232.7
130°	2.6	59.1	138.8	197.9	222.4
132.5°	2.6	55.3	132.4	187.7	210.8
135°	2.6	51.4	126.0	178.7	200.5
137.5°	2.6	46.3	118.3	168.4	188.9
140°	2.6	42.4	108.0	158.1	177.4
142.5°	2.6	39.8	97.7	146.5	164.5
145°	2.6	37.3	87.4	135.0	151.7
147.5°	2.6	34.7	78.4	123.4	138.8
150°	2.6	30.8	69.4	113.1	126.0
152.5°	3.9	28.3	61.7	100.3	113.1
155°	3.9	25.7	54.0	86.1	100.3
157.5°	3.9	23.1	46.3	72.0	87.4
160°	3.9	20.6	39.8	59.1	74.6
162.5°	3.9	19.3	34.7	48.8	63.0
165°	3.9	16.7	29.6	39.8	51.4
167.5°	3.9	12.9	24.4	30.8	42.4
170°	3.9	10.3	19.3	21.9	32.1
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)