

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: P567023

Luminaire Tested: **4SNX-93HL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567023
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-L835-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

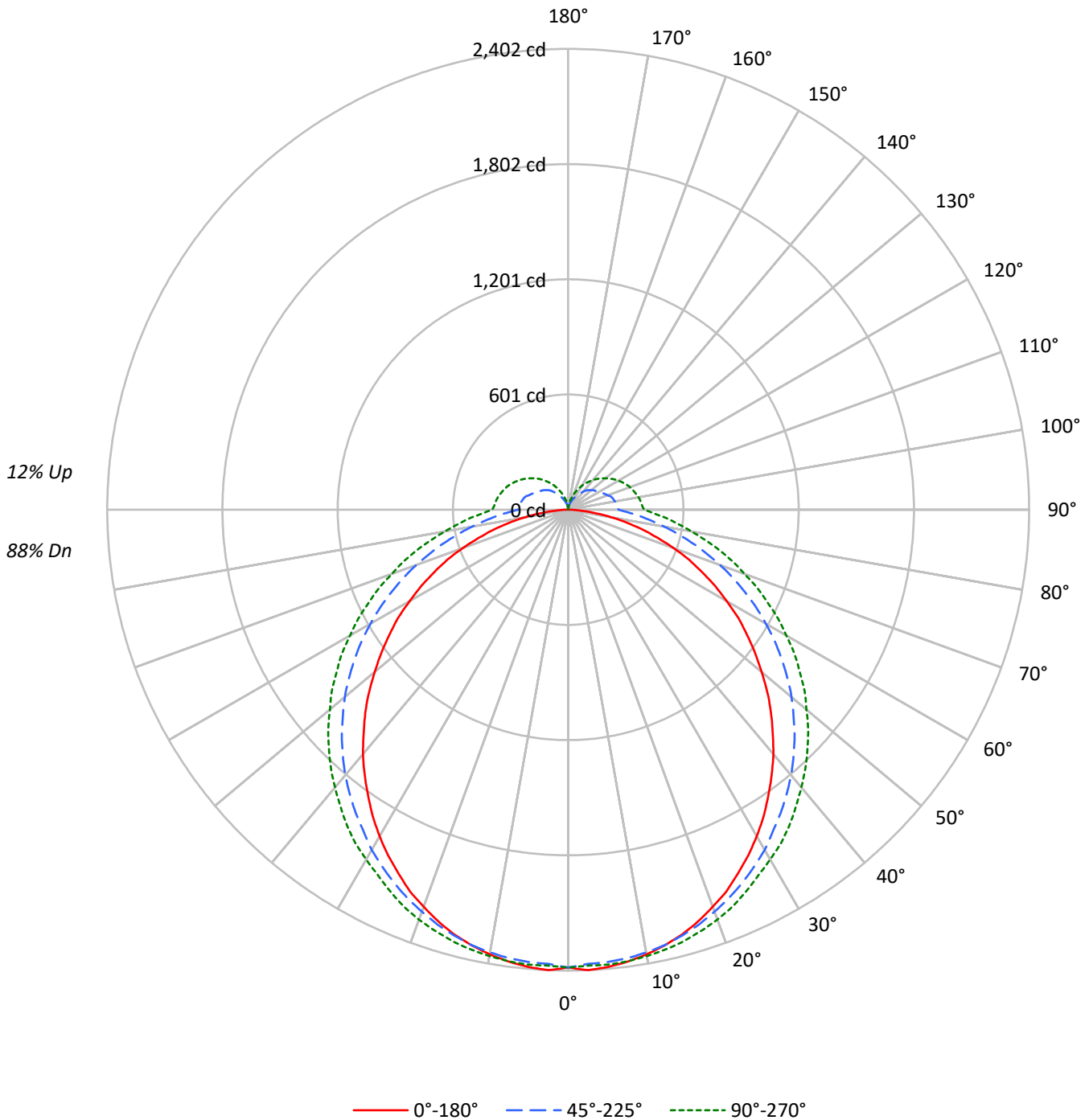
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8590.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

TEST NUMBER: P567023
CATALOG NUMBER: 4SNX-93HL-LW-UNV-L835-CD

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	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°	25683	25683	25683
5°	25751	24500	24300
10°	25537	23534	23105
15°	25257	22575	22016
20°	24848	21605	20963
25°	24370	20663	19884
30°	23853	19741	18892
35°	23214	18776	18001
40°	22587	17871	17032
45°	21840	16919	16109
50°	20980	15934	15126
55°	20141	14854	14156
60°	19169	13718	13109
65°	17987	12482	12028
70°	16491	11144	10855
75°	14400	9679	9734
80°	11507	8215	8450
85°	7387	6808	7377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.5	2.6
10°-20°	651.6	7.6
20°-30°	991.2	11.5
30°-40°	1205.2	14.0
40°-50°	1275.1	14.8
50°-60°	1195.2	13.9
60°-70°	983.3	11.4
70°-80°	680.4	7.9
80°-90°	378.3	4.4
90°-100°	249.2	2.9
100°-110°	223.5	2.6
110°-120°	185.0	2.2
120°-130°	143.0	1.7
130°-140°	101.2	1.2
140°-150°	61.1	0.7
150°-160°	29.3	0.3
160°-170°	9.6	0.1
170°-180°	1.2	0.0
0°-30°	1869.3	21.8
0°-40°	3074.6	35.8
0°-60°	5544.9	64.6
0°-90°	7586.9	88.3
90°-120°	657.7	7.7
90°-150°	963.0	11.2
90°-180°	1003.0	11.7
0°-180°	8590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2386	2386	2386	2386	2386	
5°	2392	2387	2367	2386	2380	227
15°	2292	2299	2298	2329	2329	646
25°	2092	2121	2146	2193	2195	964
35°	1818	1867	1930	1992	2009	1138
45°	1494	1572	1668	1743	1764	1152
55°	1137	1239	1358	1443	1472	1018
65°	769	880	1016	1116	1147	763
75°	400	516	668	774	816	424
85°	88	219	371	474	515	102
90°	2	124	262	360	396	6
95°	2	118	254	349	382	1
105°	2	102	238	328	358	2
115°	3	88	202	291	324	2
125°	3	75	172	249	280	3
135°	3	59	144	204	230	2
145°	3	43	100	154	174	2
155°	4	29	62	99	115	2
165°	4	19	34	46	59	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



TEST NUMBER: P567023

CATALOG NUMBER: 4SNX-93HL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2386.0	2386.0	2386.0	2386.0	2386.0
2.5°	2402.2	2394.8	2369.8	2386.0	2378.6
5°	2391.9	2387.4	2366.8	2386.0	2380.1
7.5°	2375.7	2374.2	2358.0	2380.1	2374.2
10°	2353.6	2356.5	2343.3	2366.8	2362.4
12.5°	2325.7	2330.1	2324.2	2350.7	2347.7
15°	2291.8	2299.2	2297.7	2328.6	2328.6
17.5°	2250.6	2260.9	2266.8	2302.1	2302.1
20°	2202.1	2218.3	2230.0	2268.3	2274.2
22.5°	2153.6	2172.7	2190.3	2230.0	2238.9
25°	2091.8	2121.2	2146.2	2193.3	2194.7
27.5°	2031.5	2063.8	2097.7	2143.3	2147.7
30°	1965.3	2006.5	2047.6	2091.8	2105.0
32.5°	1894.7	1940.3	1985.9	2044.7	2062.3
35°	1818.2	1866.7	1930.0	1991.7	2009.4
37.5°	1741.7	1796.1	1869.6	1932.9	1949.1
40°	1663.7	1724.0	1806.4	1871.1	1890.2
42.5°	1576.9	1650.5	1738.7	1807.9	1829.9
45°	1494.5	1572.5	1668.1	1743.1	1763.7
47.5°	1407.8	1490.1	1593.1	1672.5	1696.1
50°	1315.1	1409.2	1519.5	1599.0	1621.0
52.5°	1228.3	1323.9	1440.1	1522.5	1553.4
55°	1137.1	1238.6	1357.7	1443.1	1472.5
57.5°	1051.8	1148.9	1276.8	1362.2	1398.9
60°	954.7	1062.1	1190.0	1282.7	1312.1
62.5°	863.5	972.3	1104.7	1200.3	1234.2
65°	769.3	879.7	1016.5	1116.5	1147.4
67.5°	681.1	789.9	929.7	1028.2	1067.9
70°	584.0	698.7	841.4	942.9	976.7
72.5°	488.4	607.5	753.2	862.0	900.3
75°	400.1	516.3	667.8	773.7	816.4
77.5°	314.8	432.5	585.5	694.3	731.1
80°	229.5	353.0	509.0	616.4	651.7
82.5°	151.5	281.0	435.4	542.8	581.0
85°	88.3	219.2	370.7	473.7	514.9
87.5°	38.2	166.2	310.4	411.9	445.7
90°	1.5	123.6	261.8	360.4	395.7
92.5°	1.5	120.6	256.0	353.0	386.9
95°	1.5	117.7	254.5	348.6	382.5
97.5°	1.5	116.2	251.5	345.7	378.0
100°	1.5	111.8	247.1	339.8	372.2
102.5°	1.5	105.9	242.7	333.9	364.8
105°	1.5	101.5	238.3	328.0	357.5
107.5°	1.5	97.1	230.9	320.7	350.1
110°	1.5	92.7	219.2	313.3	342.7



TEST NUMBER: P567023

CATALOG NUMBER: 4SNX-93HL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	91.2	210.4	303.0	333.9
115°	2.9	88.3	201.5	291.3	323.6
117.5°	2.9	86.8	194.2	279.5	313.3
120°	2.9	82.4	186.8	269.2	301.6
122.5°	2.9	78.0	179.5	258.9	291.3
125°	2.9	75.0	172.1	248.6	279.5
127.5°	2.9	70.6	166.2	238.3	266.3
130°	2.9	67.7	158.9	226.5	254.5
132.5°	2.9	63.3	151.5	214.8	241.2
135°	2.9	58.8	144.2	204.5	229.5
137.5°	2.9	53.0	135.3	192.7	216.2
140°	2.9	48.5	123.6	180.9	203.0
142.5°	2.9	45.6	111.8	167.7	188.3
145°	2.9	42.7	100.0	154.5	173.6
147.5°	2.9	39.7	89.7	141.2	158.9
150°	2.9	35.3	79.4	129.4	144.2
152.5°	4.4	32.4	70.6	114.7	129.4
155°	4.4	29.4	61.8	98.6	114.7
157.5°	4.4	26.5	53.0	82.4	100.0
160°	4.4	23.5	45.6	67.7	85.3
162.5°	4.4	22.1	39.7	55.9	72.1
165°	4.4	19.1	33.8	45.6	58.8
167.5°	4.4	14.7	27.9	35.3	48.5
170°	4.4	11.8	22.1	25.0	36.8
172.5°	4.4	8.8	16.2	17.7	19.1
175°	4.4	7.4	10.3	10.3	5.9
177.5°	4.4	5.9	5.9	5.9	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)