



## **Plantalux lighting measurements**

### **Introduction:**

The report focuses on measuring PPFD of XX640 and XX640-Slim relative to the lamp height.

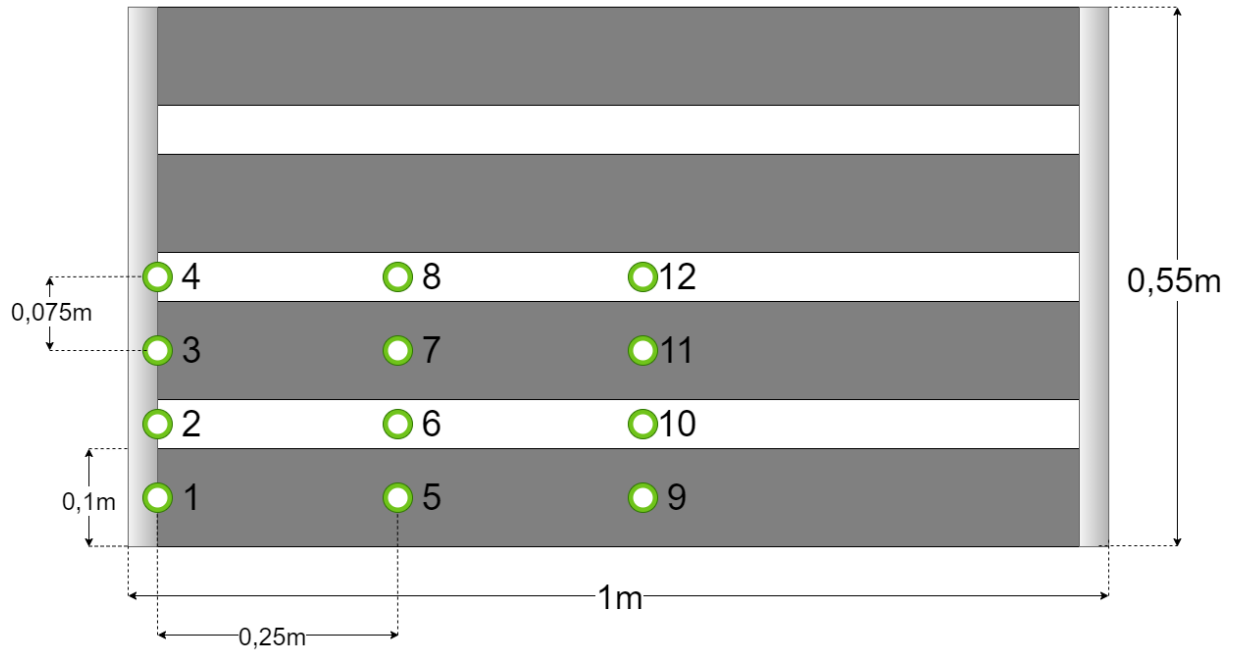
### **Test equipment:**

- AsenseTek smart spectrometer Lighting Passport
- Power analyzer – Lutron DW6090A
- Function generator - Siglent SDG1010

### **Test Conditions:**

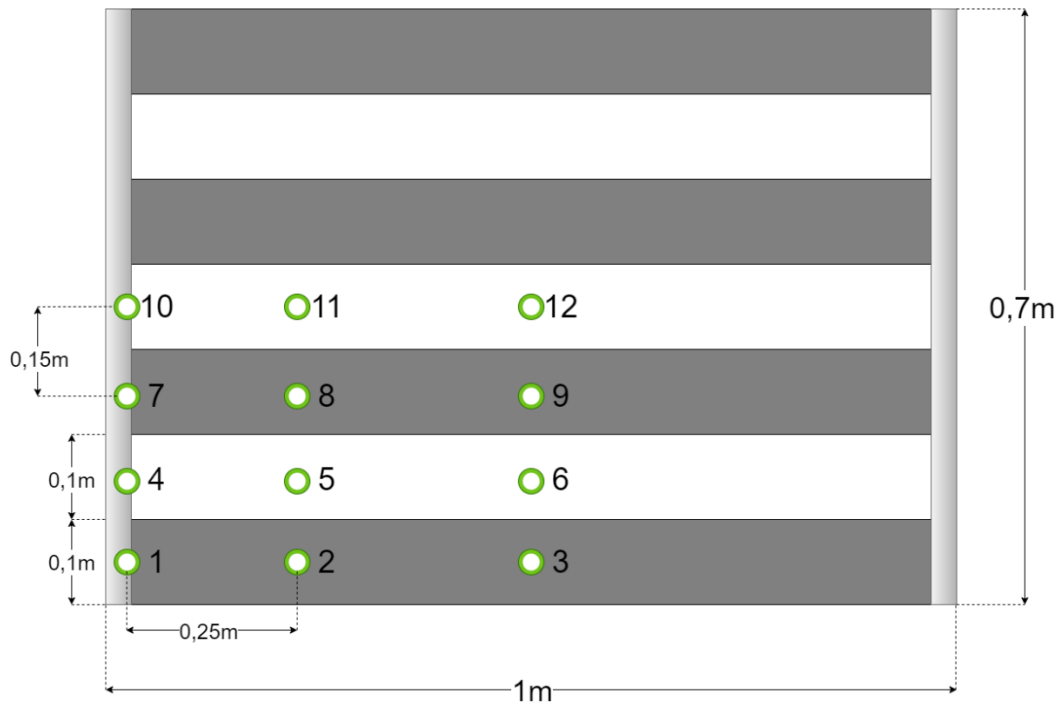
The measurements were carried out in our climatic chamber at 25°C ambient temperature and maximum lamp power (600W). Since the lamps are symmetrical, only  $\frac{1}{4}$  of the lamp area was needed to measure.

## FX640-LS test points



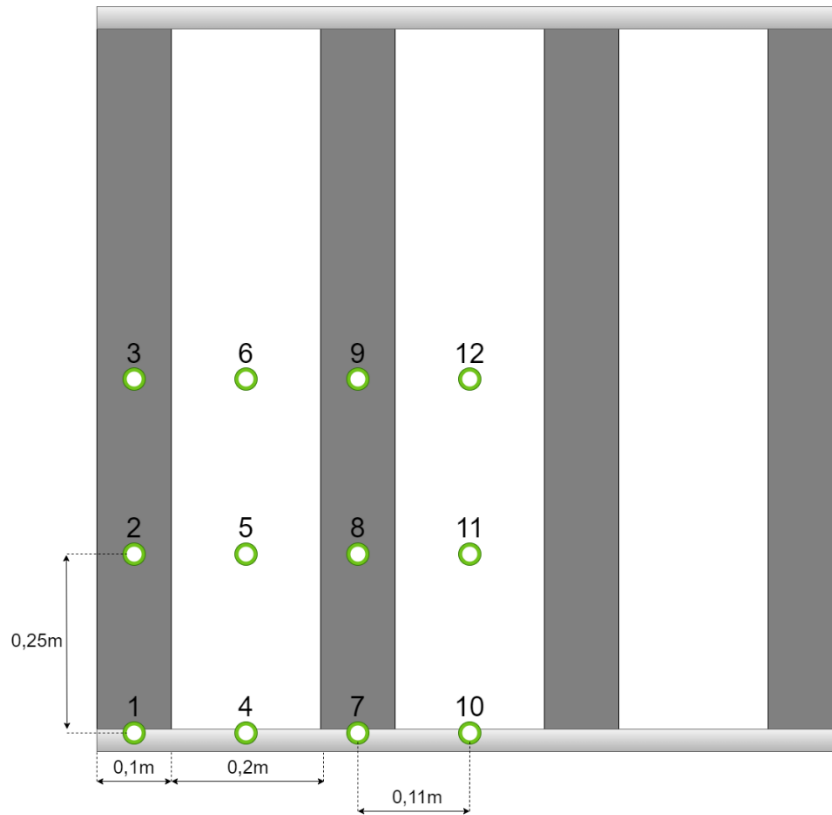
Test Point	Height[m]		
	0,45	0,3	0,15
PPFD[ $\mu\text{mol/s/m}^2$ ]			
1	705	711	936
2	1037	1223	1826
3	1219	1401	1958
4	760	844	988
5	1222	1424	1986
6	1323	1668	2134
7	801	921	1013
8	1178	1544	2131
9	1377	1801	2336
10	778	930	1019
11	1172	1560	2104
12	1378	1825	2283
<b>Max</b>	1378	1825	2336
<b>Avg</b>	1071	1321	1726
<b>Min</b>	705	711	936

### FX640-LM test points



Test Point	Height[m]			
	0,6	0,45	0,3	0,15
PPFD[ $\mu\text{mol/s/m}^2$ ]				
1	500	508	821	1070
2	612	654	1226	1758
3	628	657	1192	1509
4	620	706	936	1036
5	779	959	1410	1733
6	797	951	1370	1529
7	702	841	1019	1283
8	886	1141	1553	2061
9	910	1135	1514	1828
10	772	969	1040	1080
11	988	1313	1586	1839
12	1003	1309	1540	1668
<b>Max</b>	1003	1313	1586	2061
<b>Avg</b>	766	929	1267	1533
<b>Min</b>	500	508	821	1036

### FX640 test points



Test Point	Height[m]			
	0,6	0,45	0,3	0,15
PPFD[ $\mu\text{mol/s/m}^2$ ]				
1	442	431	450	524
2	596	674	823	1315
3	673	802	979	1458
4	500	470	497	331
5	668	736	873	786
6	748	881	1038	893
7	496	508	513	583
8	684	788	928	1352
9	787	941	1112	1489
10	518	530	500	378
11	711	805	898	773
12	805	954	1079	874
<b>Max</b>	805	954	1112	1489
<b>Avg</b>	636	710	808	896
<b>Min</b>	442	431	450	331



## Contact details



ul. Konopnica 162  
21-030 Konopnica, Poland

info@plantalux.pl  
www.plantalux.pl

VAT: PL9462661551  
KRS: 0000628224

Jakub Lachowski  
+ 48 730 730 478  
jakub.lachowski@plantalux.pl

Rafał Lachowski  
+ 48 533 916 289  
rafal.lachowski@plantalux.pl