

## DIALux – Use Light Centre Height when calculating Sky Park

Calculating street lighting, Dialux will see the luminaire as a single illumination point. The height to this point is denominated Light Centre Height. Furthermore Dialux uses Mounting Height denominating the top of the luminaire – as with interior lighting.

The Focus luminaires not being available in Dialux, they can only be imported to Dialux as ldt-files. You will get a wrong result if you let Dialux calculate the Light Centre Height based on the Mounting Height – example on the next page. Instead you should type the actual light centre height into the program in order to obtain the correct distance between poles.

### Light Centre Height, Sky Park: 540 mm + pole height



Typing the light centre height, you will see that the mounting height is wrong. However, this will not influence your calculation. If the pole height is 4 metres, you shall type the light centre height as  $4.0 \text{ m} + 540 \text{ mm} = 4.540 \text{ m}$ .

Projektmanager				
Armatur	Anordning	Mastanordning	Bom	Navn
Montagehøjde for armatur:	<input type="text" value="4.849"/>	m		
Lyspunkthøjde:	<input type="text" value="4.540"/>	m		
Antal armatur pr. mast:	<input type="text" value="1"/>			
Afstand mellem to master:	<input type="text" value="28.000"/>	m		
Længdeforskydning	<input type="text" value="0.000"/>	m		

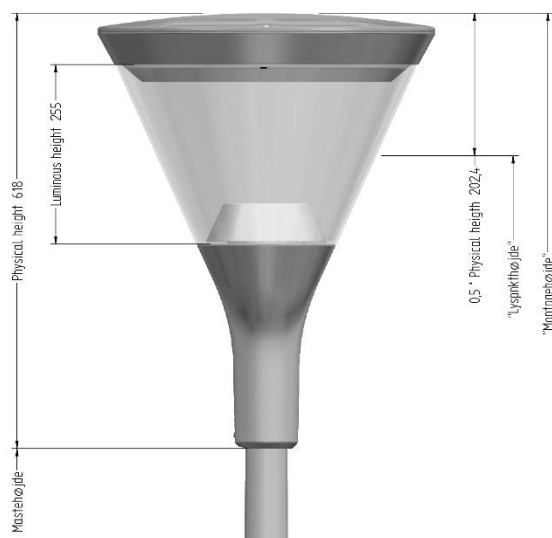
## Why Dialux is incorrect:

In the case of Sky Park the following dimensions of the luminaire are available for Dialux:

Focus Lighting		PhotoFiler/2013.12.0.2/EULumdat 1	
Luminaire: Sky_827_V18	Lightsources: 1	Dimensions: Luminous Physical	
Type No.:	Type: V18_27E4000-C-	Length: mm 440 480	
Test Report: VFR-200304-0440-MS	73_630mA	Width (Circular=0): 0 0	
Date / name: 04-03-2020 - Viso LabSpion - serial: 2316635689 sensor serial: 3060857322	Total luminous flux: 3453 lm	Heigh C0° side: 256 618	
Tilt-angle: 0°	Colour temp: 2700	Heigh C90° end: 256	
Conv.factor: 1	CRI: 83.3	Heigh C180° side: 256	
File Name: Sky_V18_827.Idt	Watt total: 25 W	Heigh C270° end: 256	

### Example

As illustrated below, Dialux applies the dimensions incorrectly! If you type the mounting height, meaning the height to the top of the luminaire, f.ex. 4.0 m + 618 mm = 4.618 m, then the resulting light centre height will be 4.309 m, which is wrong. As shown in the previous page, the correct light centre height is 4.540 m.



Projektmanager

Armatur	Anordning	Mastanordning	Bom	Navn
Montagehøjde for armatur:	<input type="text" value="4.618"/>	m		
Lyspunktthøjde:	<input type="text" value="4.309"/>	m		
Antal armatur pr. mast:	<input type="text" value="1"/>			
Afstand mellem to master:	<input type="text" value="28.000"/>	m		
Længdeforskydning	<input type="text" value="0.000"/>	m		