

DIALux – Use Light Centre Height when calculating Space

Calculating street lighting, Dialux will see the luminaire as one illuminated 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:

- Space at Ø60 pole: 183 mm + pole height
- Space at Ø76 pole: 183 mm + pole height + 32 mm



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 m + 183 mm = 4.183 m.

Projektmanager				
Armatur	Anordning	Mastanordning	Bom	Navn
Montagehøjde for armatur:		<input type="text" value="4.306"/>	m	
Lyspunkthøjde:		<input type="text" value="4.183"/>	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	

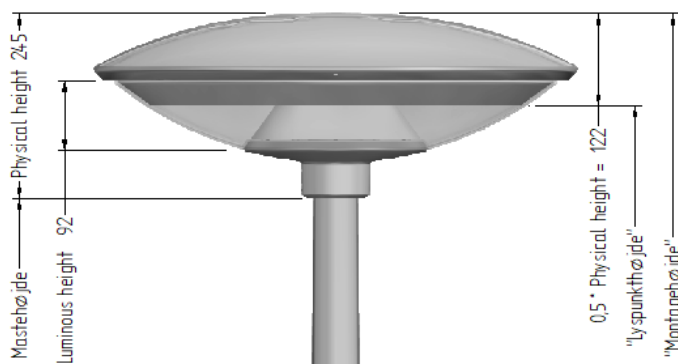
Why Dialux is incorrect:

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

Focus Lighting AS		PhotoFiler/2013.12.0.2/EULumdat 1	
Luminaire: Space_V22	Lightsources	1	Dimensions Luminous Physical
Type No.:	Type:	V22_30E6500-C-	Length mm 587 641
Test Report: VFR-200629-0478-MS		73_720mA	Width (Circular=0) 0 0
Date / name: 29-06-2020 - Viso LabSpion - serial: 2316635689 sensor serial: 3060857322	Total luminous flux:	6689 lm	Heigh C0° side 92 245
	Colour temp:	3000	Heigh C90° end 92
	CRI:	80	Heigh C180° side 92
Tilt-angle: 0°	Watt total:	40 W	Heigh C270° end 92
Conv.factor: 1			
File Name: Space_V22.Idt			

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 + 245 mm = 4.245 m, then the resulting light centre height will be 4.122 m, which is wrong. As shown in the the previous page, the correct light centre height is 4.183 m.



Projektmanager				
Armatur	Anordning	Mastanordning	Bom	Navn
Montagehøjde for armatur:	4.245	m		
Lyspunkthøjde:	4.122	m		
Antal armatur pr. mast:	1			
Afstand mellem to master:	28.000	m		
Længdeforskydning	0.000	m		