























#### MINISTAFF • Duo Straight • Duo Tilted • Duo Wall-Washer

Panga	Due of recogned hymineiros for general 9 accept lighting		
Range	Duo of recessed luminaires for general & accent lighting		
Description	Cluster of 2 low luminance spotlights inserted in a recessed gypsum board equipped with fixing brackets for BA13 plasterboard installation  Ministaff Duo Straight : no tilt  Ministaff Duo Tilted : 10° or 20° fixed tilt  Ministaff Duo Wall-Washer : 25° fixed tilt		
Finish	Black matt finish spotlights Raw finish gypsum board		
	Duo Straight	Duo Tilted	Duo Wall-Washer
Dimensions	Spots diameter : 27mm Length : 130mm Width : 80mm Height : 48.5mm	Spots diameter : 27mm Length : 130mm Width : 80mm Height : 52mm	Spots diameter : 27mm Length : 130mm Width : 80mm Height : 45mm
LED characteristics	2 LEDs 2700K - 3000K - 3500K - 4000K (other upon request) MacAdam ellipse : 3 SDCM CRI 90		
Optical beams	Ministaff Duo Straight & Ministaff Duo Tilted : 10° - 20° - 40° Ministaff Duo Wall Washer : 40°		
Luminous flux	110 lumen		
Connection	Supplied with 0.5m cable for serial cabling		
Power supply	700mA max. external constant current driver For the US & Canada use a driver UL class 2		
Power	4W max.		
Use limitations	The product must be installed into a ventilated area  Any use with an ambient temperature higher than the specified ambient temperature (Ta) would lead to a more rapid mortality of the product and the withdrawal of our guarantees  The drivers, if not delivered by LOuss, must be approved before use		
Warranty	Life span: L80-B10 = 35,000 hours (80% remaining flux) at 30°C ambient temperature The warranty applies to components and fabrication supplied by Louss The warranty does not apply to products that have been opened, modified or repaired and does not cover the effects of a wrong connection, careless, abusive handling, overvoltage, lighting injury, as well as the normal wear of the product All products are electrically tested and receive a functional burn-in		

All the connections have to be made before powering up, otherwise the luminaires could be seriously damaged

**Wuss** 

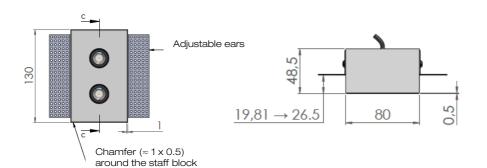
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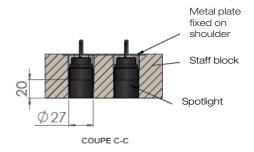
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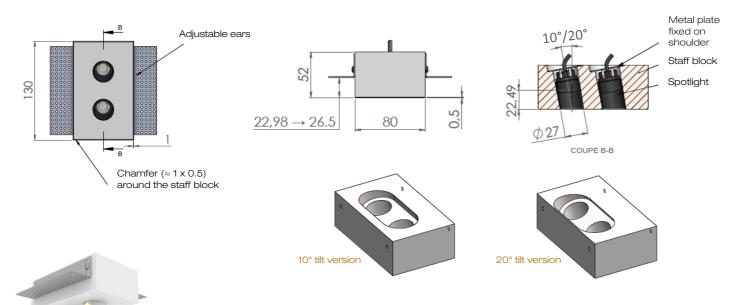
#### MINISTAFF DUO STRAIGHT



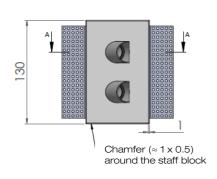


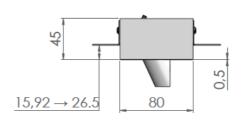


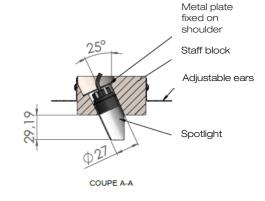
### MINISTAFF DUO TILTED



## MINISTAFF DUO WALL-WASHER







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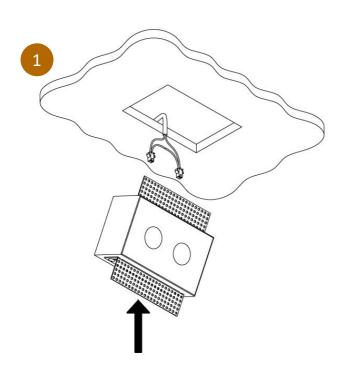
**MINISTAFF** 

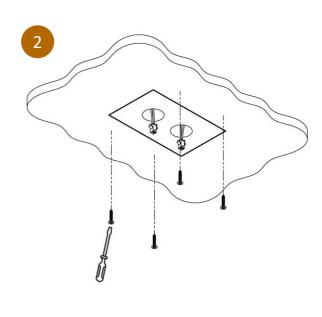
**Duo Straight** 

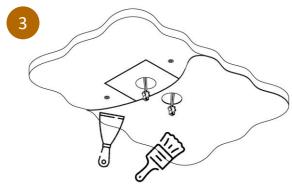
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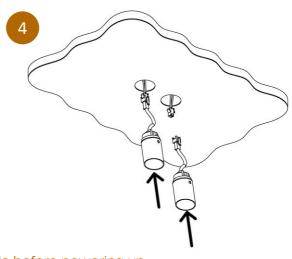
**Duo Wall-Washer** 

# Installation guide









All the connections have to be made before powering up, otherwise the luminaires could be seriously damaged

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