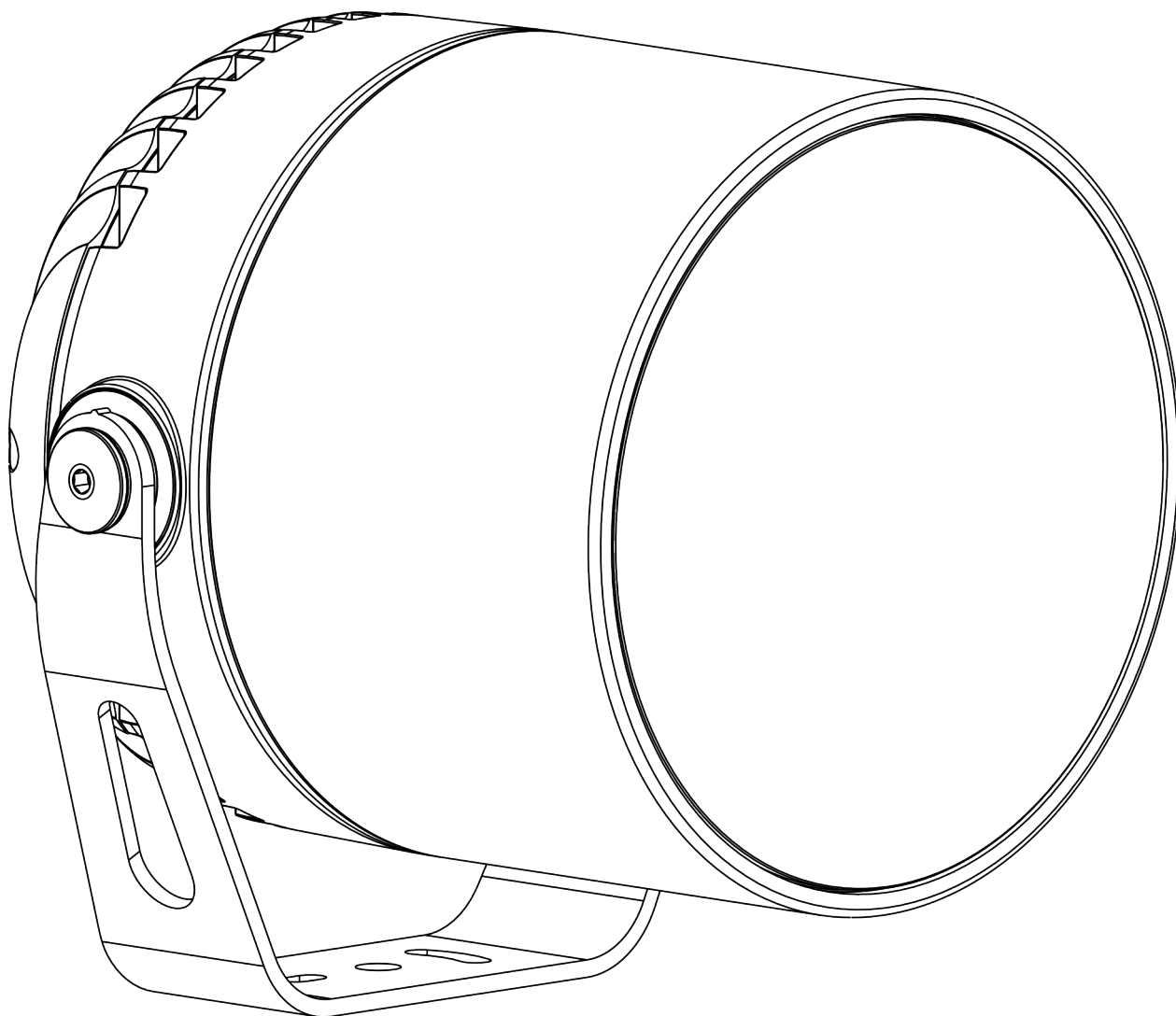




QR code for Installations Instructions



Fixture must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations. This device falls under class one and must be grounded!



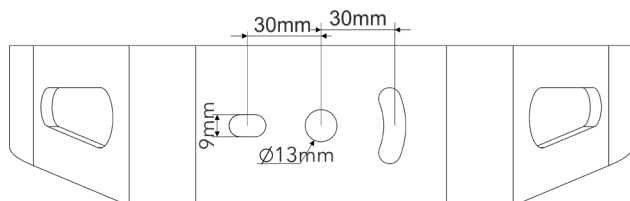
STEP 1

CALUMMA INSTALLATION USING YOKE

1

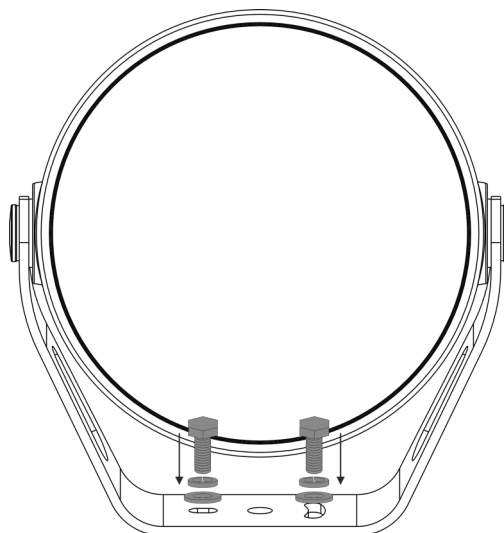


Use fasteners that are appropriate for use with your mounting surface



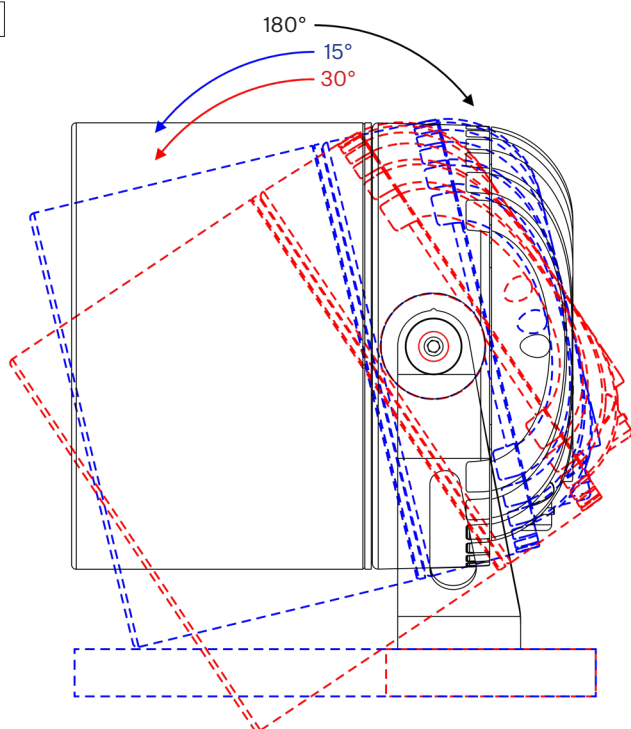
Drill two holes into the surface according the given dimensions.

2



Fasten the Yoke of the fixture to the surface by two washers, spring washers and screws.

3

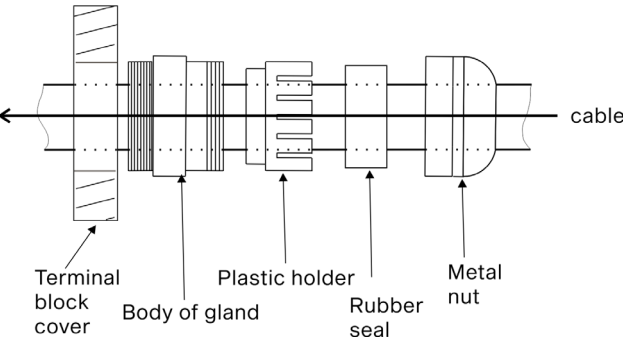


Use an Allen key to release tilting lock on each side of luminaire and adjust tilt of LED module.

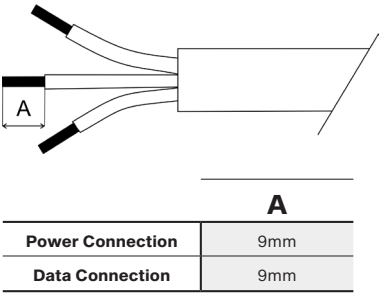
STEP 2
CABLE GLAND INSTALLATION

Slip the cable through the gland according to the picture below and do not assemble the gland yet.

Use wrench size 22 for cable gland M20x1.5



Strip these lengths for cable connections.

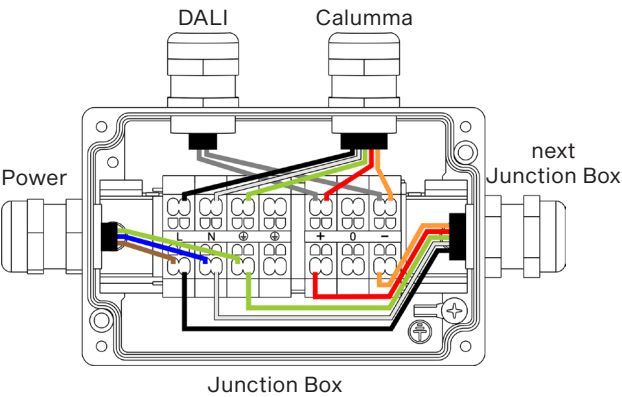
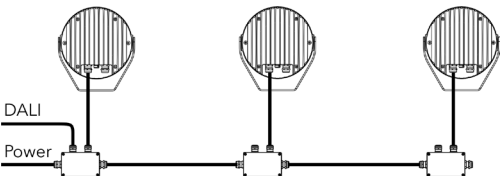


STEP 3
CONNECTION - CE
(JUNCTION BOX IS NOT PART OF THE PACKAGE)

A DALI

Connection – colour coding

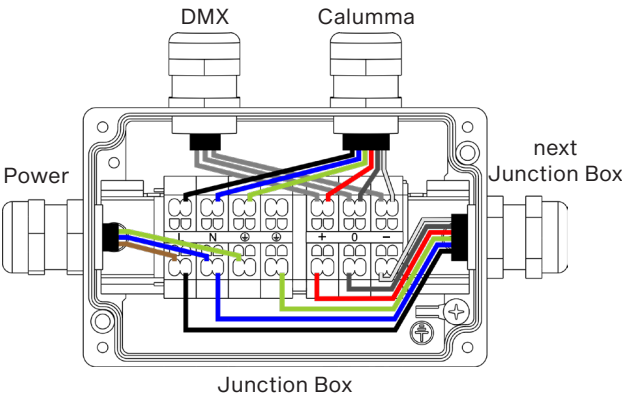
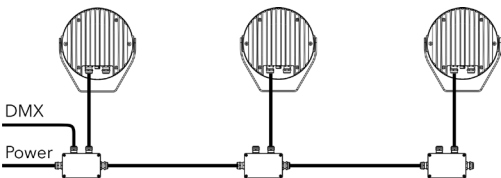
WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
White	N	Orange	Data - (-)
Green/Yellow	⊕	/	Data 0V (0)



B DMX

Connection – colour coding

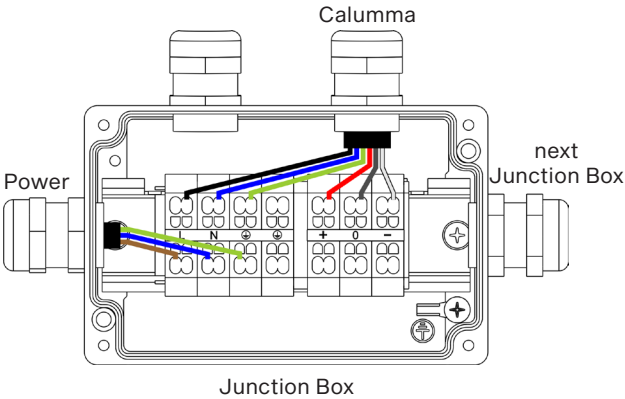
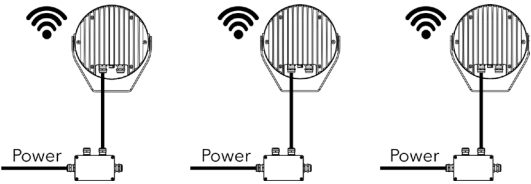
WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
Blue	N	White	Data - (-)
Green/Yellow	⊕	Shielding	Data 0V (0)



C WIRELESS DMX - each fixture

Connection – colour coding

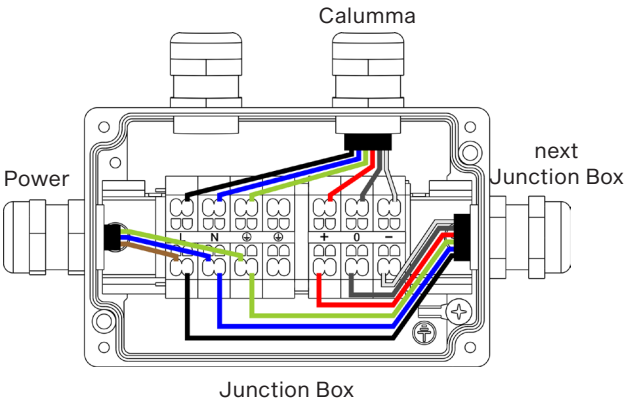
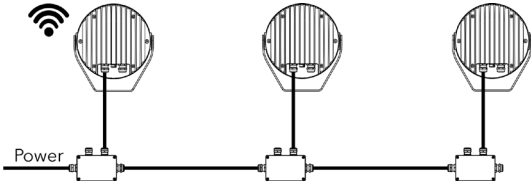
WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
Blue	N	White	Data - (-)
Green/Yellow	⊕	Shielding	Data 0V (0)



D WIRELESS DMX - first fixture

Connection – colour coding

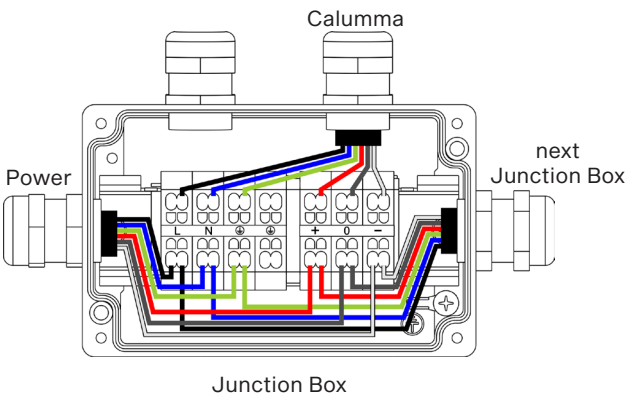
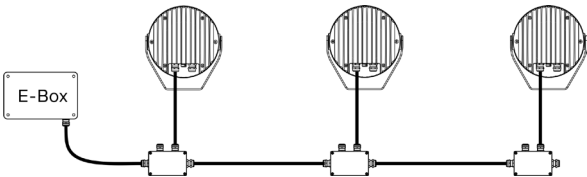
WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
Blue	N	White	Data - (-)
Green/Yellow	⊕	Shielding	Data 0V (0)



E DMX or ETHERNET via E-Box

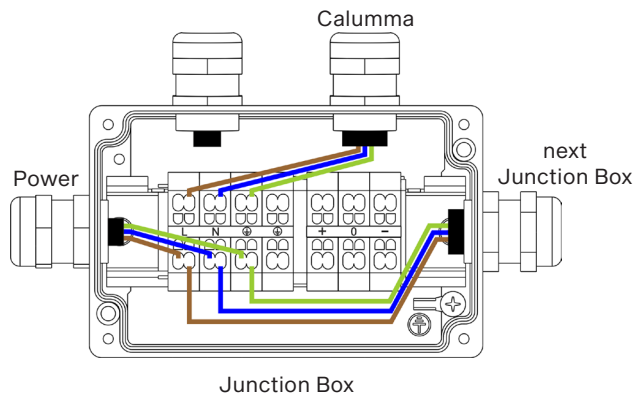
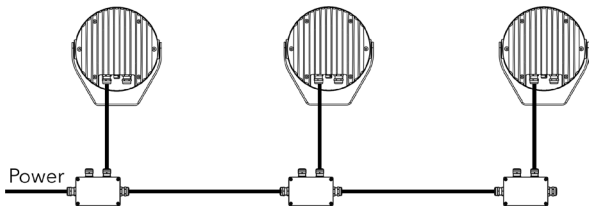
Connection – colour coding

WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
Blue	N	White	Data - (-)
Green/Yellow	⊕	Shielding	Data 0V (0)



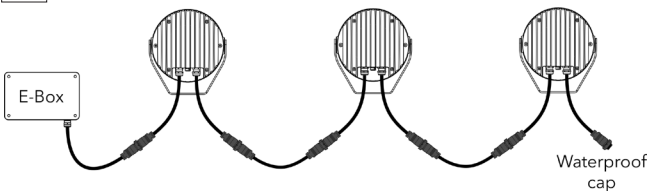
F Power ON/OFF

Connection – colour coding	
WIRE	POWER CONNECTION
Brown	L
Blue	N
Green/Yellow	⊕

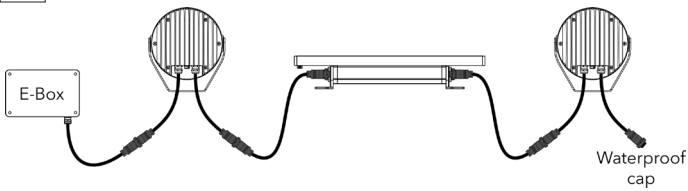


G DMX or ETHERNET via E-Box with Leader and Jumper Cable

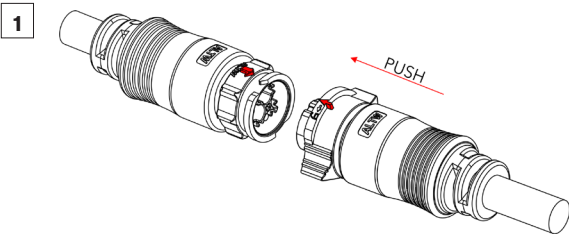
GA



GB

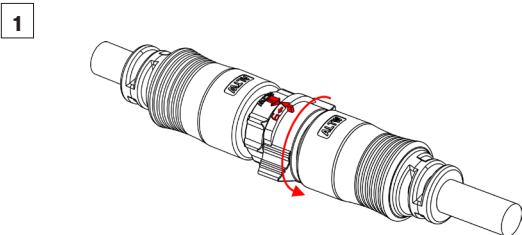


LOCK



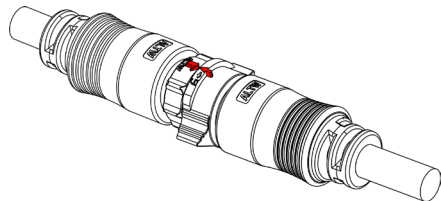
Please align the arrow symbol and mate the connector. Do NOT rotate the connector. Correct connection should be signaled by silent „click“ sound.

UNLOCK



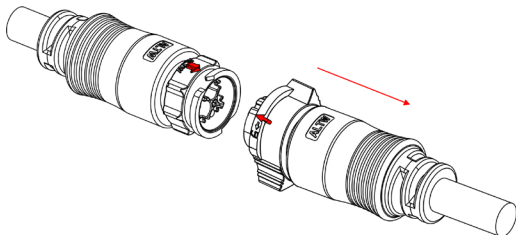
Rotate NUT 30 degrees anti-clockwise, same as the arrow direction. (Please do not rotate clockwise during unmating process)

2



Mating complete.

2



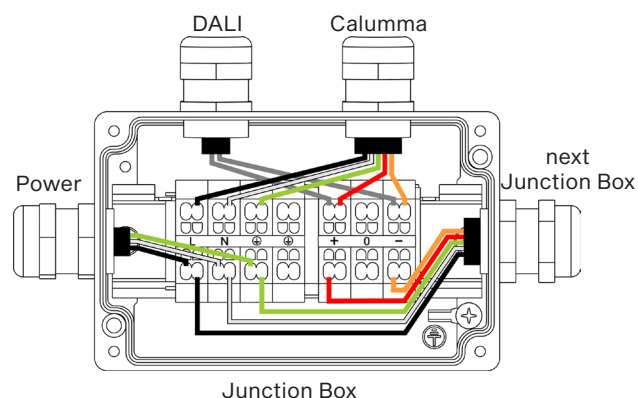
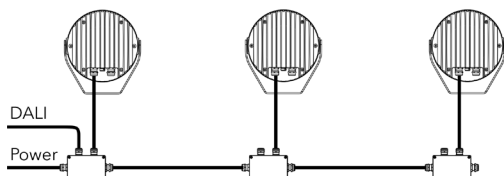
Drop out.

CONNECTION - US (JUNCTION BOX IS NOT PART OF THE PACKAGE)

A DALI

Connection – colour coding

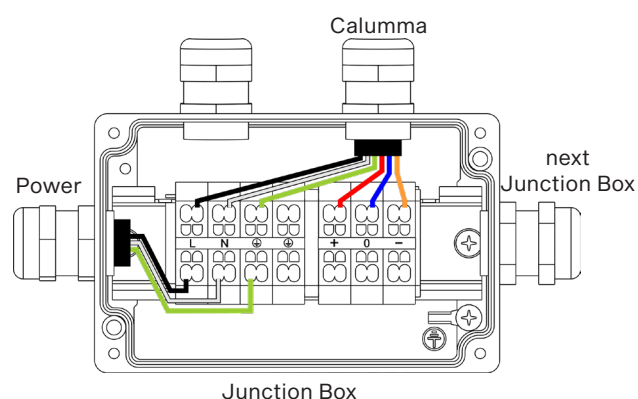
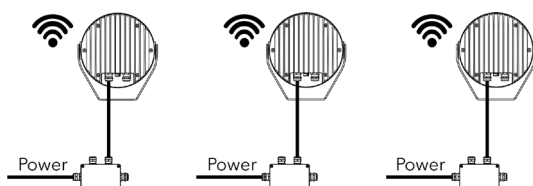
WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
White	N	Orange	Data - (-)
Green/Yellow	⊕	/	Data 0V (0)



B WIRELESS DMX - each fixture

Connection – colour coding

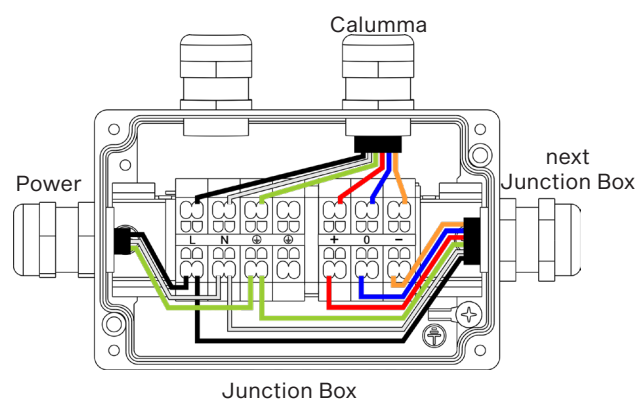
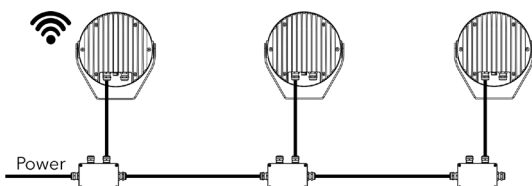
WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
White	N	Orange	Data - (-)
Green/Yellow	⊕	Blue	Data 0V (0)



C WIRELESS DMX - first fixture

Connection – colour coding

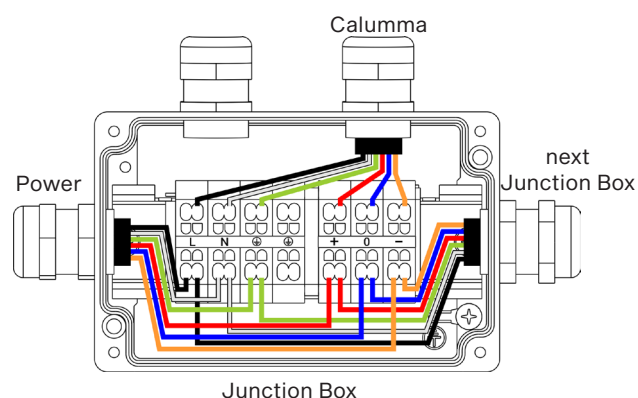
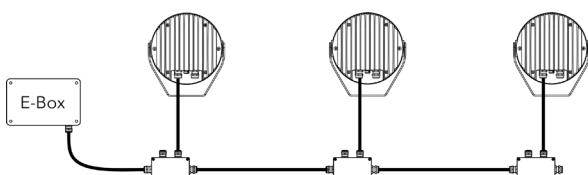
WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
White	N	Orange	Data - (-)
Green/Yellow	⊕	Blue	Data 0V (0)



D DMX or ETHERNET via E-Box

Connection – colour coding

WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
White	N	Orange	Data - (-)
Green/Yellow	⊕	Blue	Data 0V (0)



DMX connection

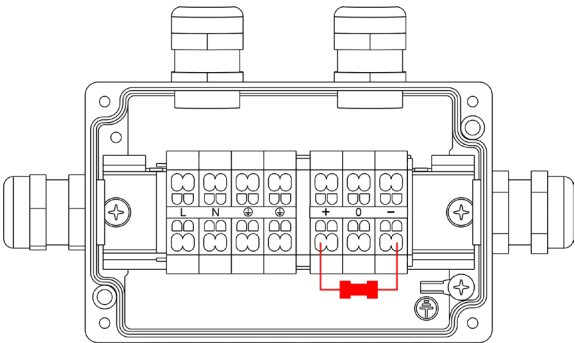
NOTE: DMX line of Calummas M/L/XL has to be terminated at the last fixture.

EITHER connect a 120 Ohm resistor between terminals + and - in the junction box at last fixture.

OR terminate via RDM Set the 'Manufacturer PID' 'Terminator active' to '1' at last fixture by means of RDM Control Panel.

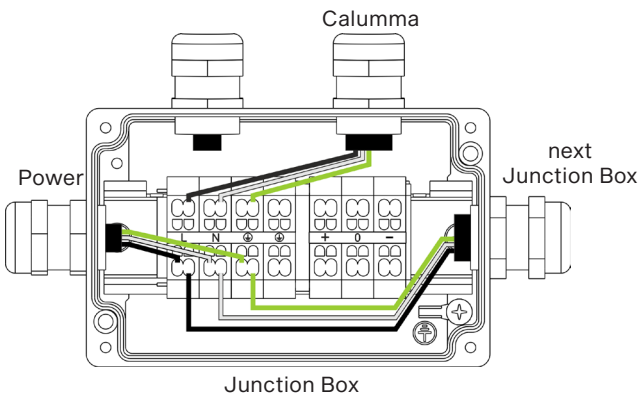
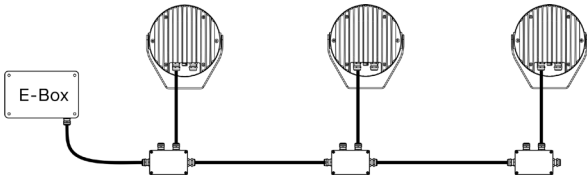
Terminator active (0-dis 1-en): (hex)

⚠ Ensure ONLY the last fixture in the line is terminated using ⚠ ONE of the above methods!
If connected to E-box Star, the last fixture on each line needs to be terminated.

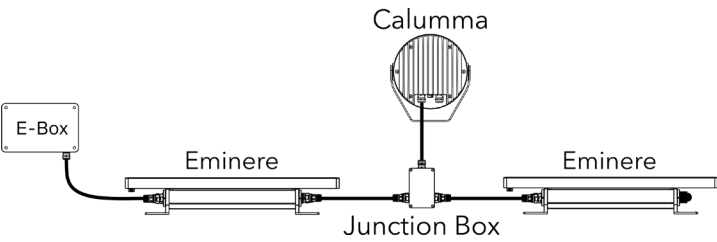


E Power ON/OFF

Connection – colour coding	
WIRE	POWER CONNECTION
Black	L
White	N
Green	⊕



CONNECTION CALUMMA AND EMINERE (ONLY FOR CALUMMA DMX)

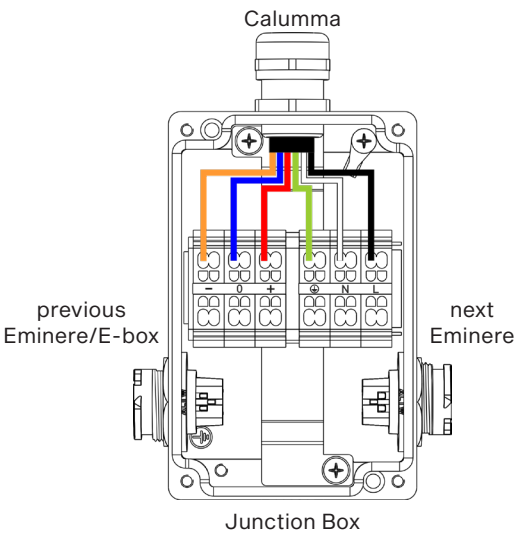
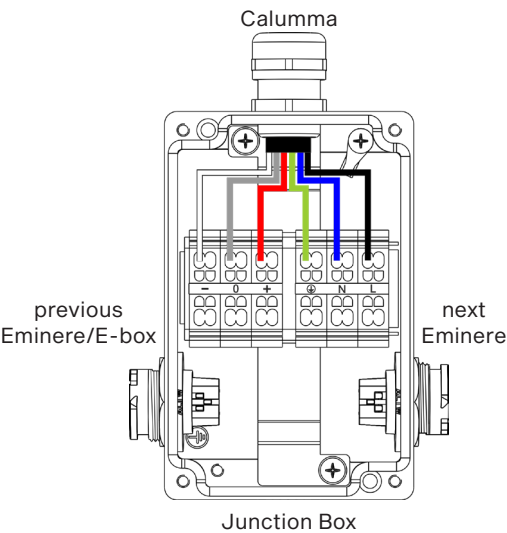


Cable Connection – EU colour coding

WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
Blue	N	White	Data - (-)
Green/Yellow	⊕	Shielding	Data 0V (0)

Cable Connection – US colour coding

WIRE	POWER CONNECTION	WIRE	DATA CONNECTION
Black	L	Red	Data + (+)
White	N	Orange	Data - (-)
Green	⊕	Blue	Data 0V (0)



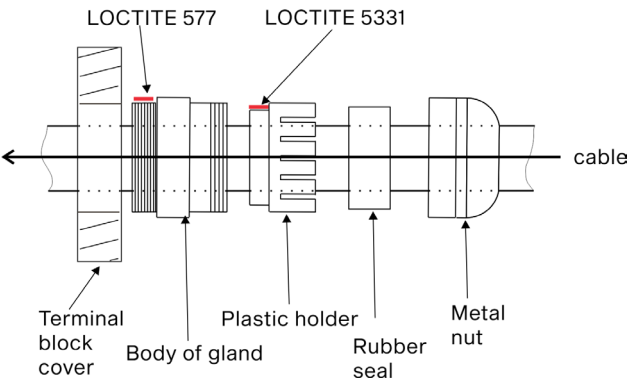
STEP 4
CABLE GLAND INSTALLATION

Assemble the cable gland according to the picture.

Use wrench size 22 for cable gland M20x1.5

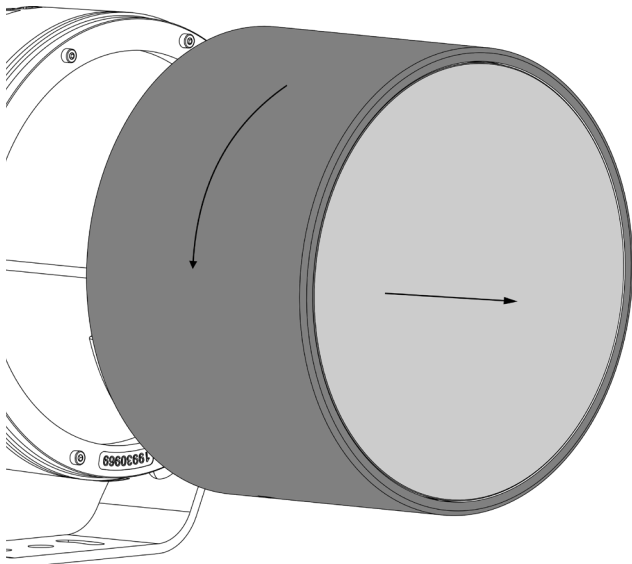
We recommend to apply an adequate layer of the paste LOCTITE 5331 on the plastic holder of the cable gland before inserting in into the body of the gland and an adequate layer of the paste LOCTITE 577 on the thread of the gland body.

Failure to properly install cable glands will result in failure of the water tight seal!



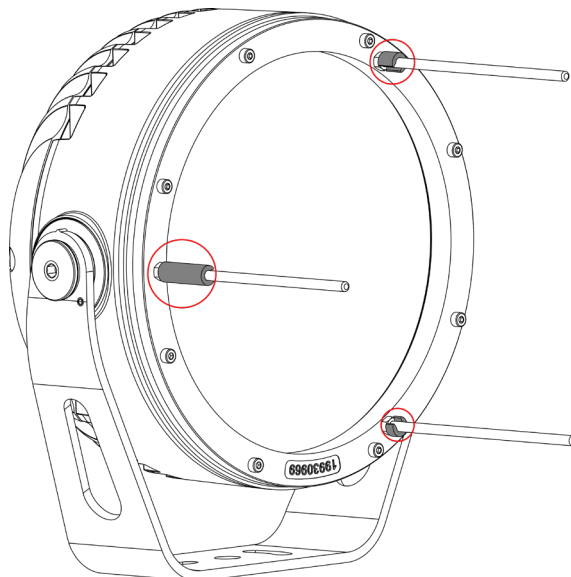
STEP 5
GLASS HOLDER INSTALLATION

1



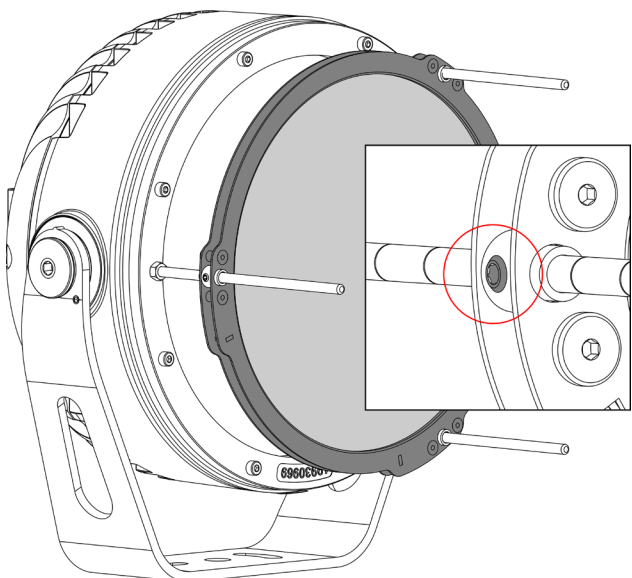
Remove the optics cover as shown in the picture.

2



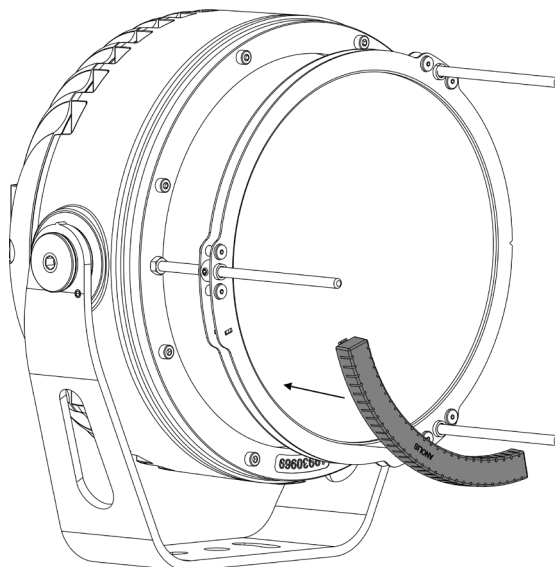
To precisely define the distance of the glass holder, you can use spacers (5mm, 10mm, 30mm).

3



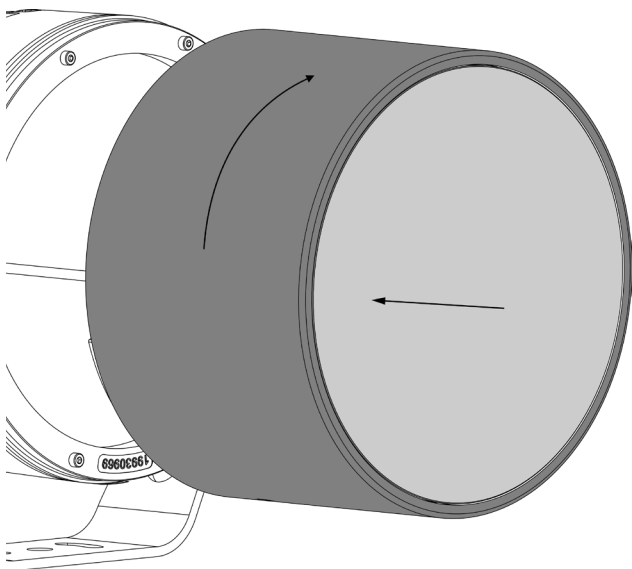
Place the glass holder with glass on the three rods and adjust to the desired distance.

4



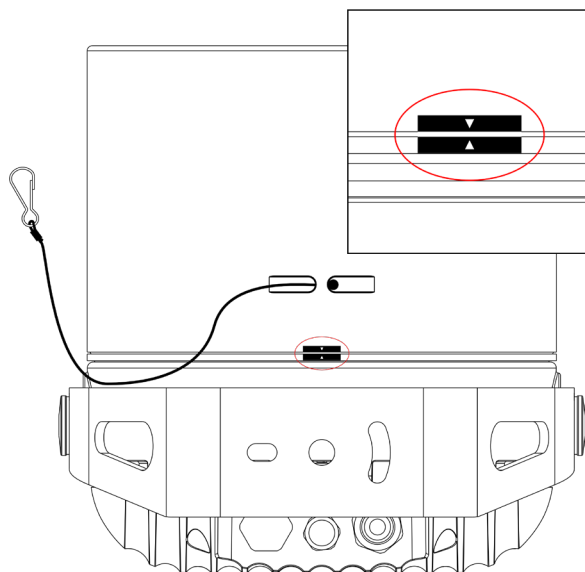
Place the Silicagel on the glass holder as shown in the pictures.

5



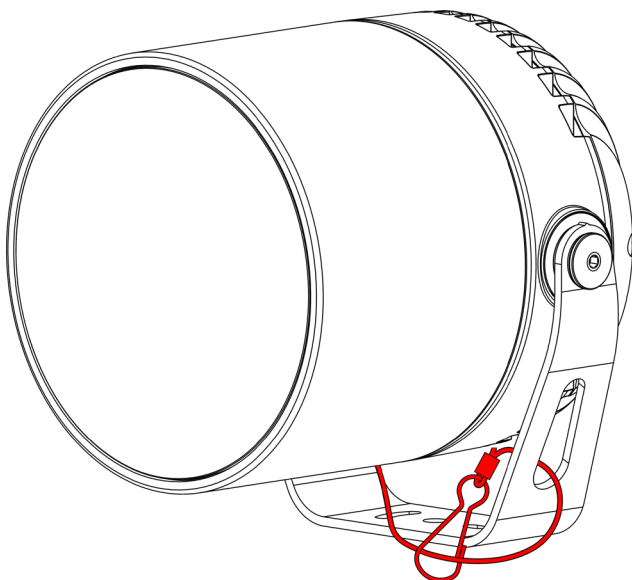
Mount the optics cover as shown in the picture.

6

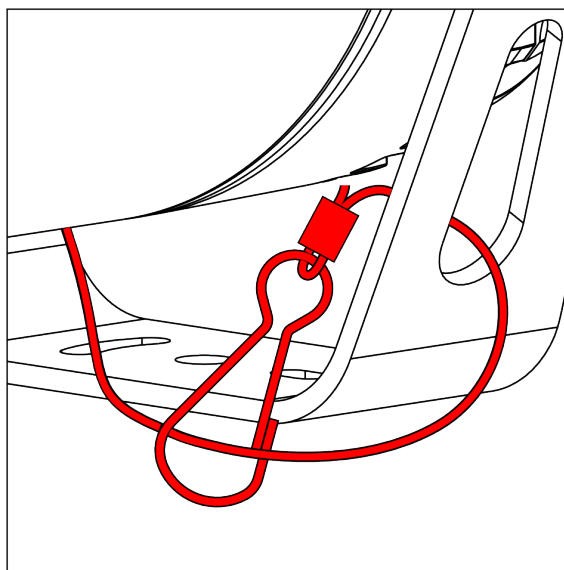


When screwing the tube onto the Luminaire, it is necessary to align the stickers against each other.

6

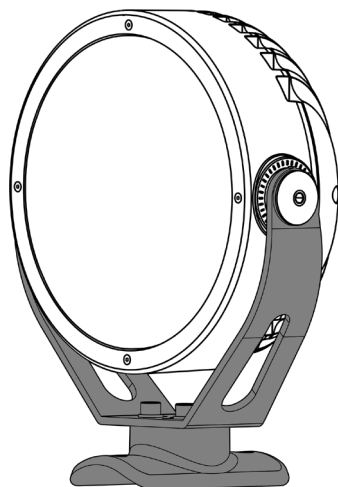


In the last stage, it is **NECESSARY** to secure the safety rope through the Yoke on the luminaire as shown in the picture.



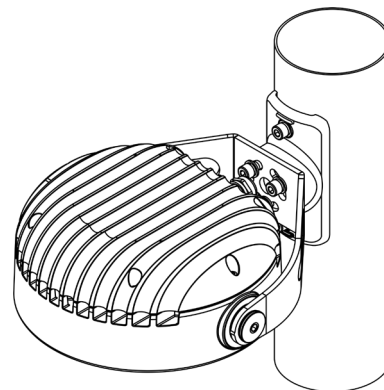
STEP 6

INSTALLATION OF ACCESORIES



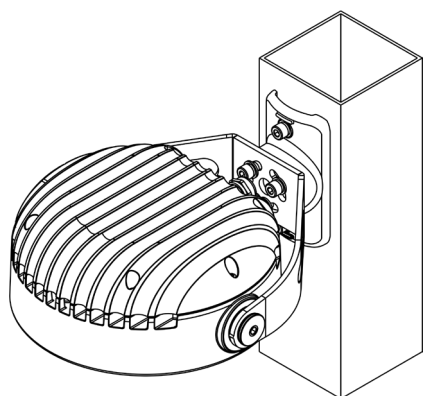
POLE ADAPTOR

A



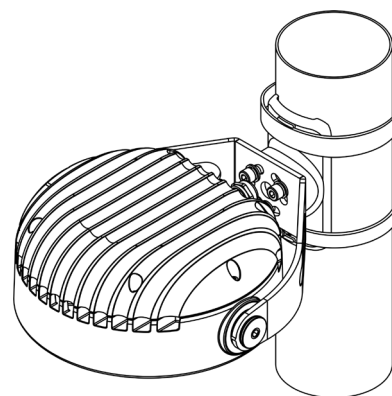
Installations on POLE(diameter 76-116mm) with two screws.

B



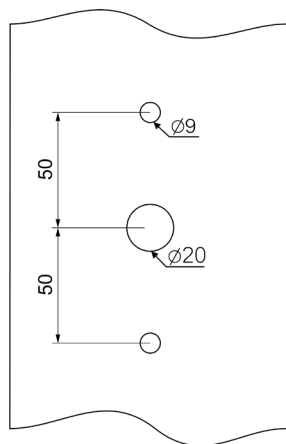
Installation on FLAT POLE with two screws.

C



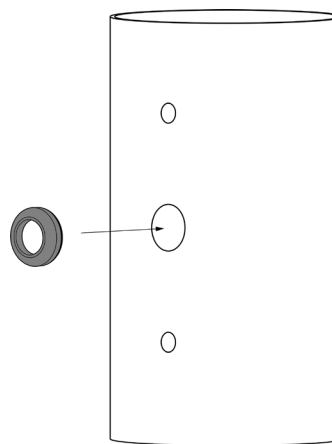
Installation on POLE (diameter 76-116mm) with suitable stainless steel mounting bands. Maximum width is 20mm (not included packing).

A1



Drill three holes into the surface according the given dimensions.

A2

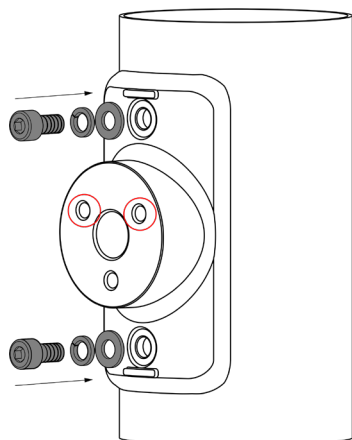


Insert the cable gland into the middle hole.

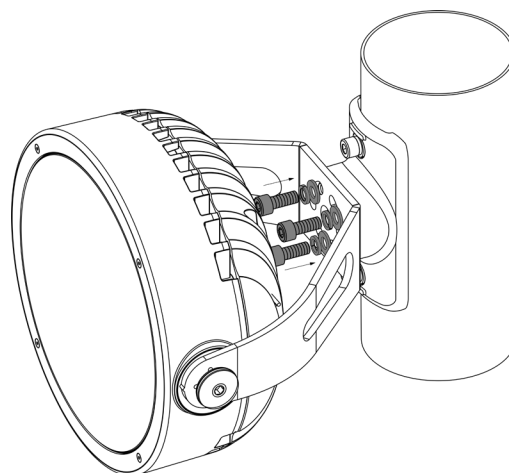
A3



Pole Adaptor must be installed with two holes up



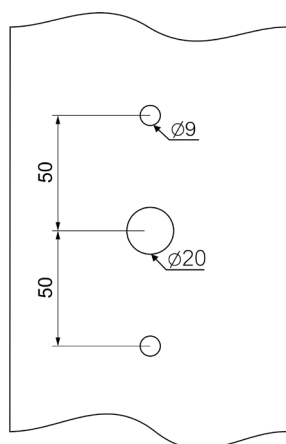
A4



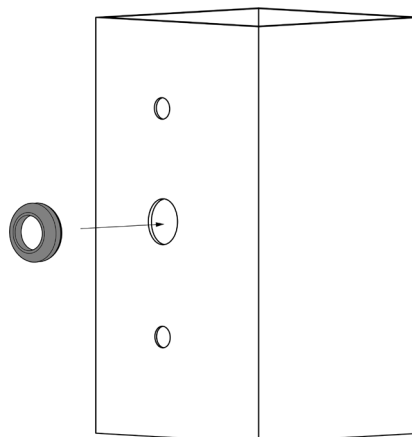
Fasten the Pole Adaptor on the surface by two screws, spring washers and washers.

Fasten the Luminaire on the Pole Adaptor by three screws, spring washers and washers.

B1



B2



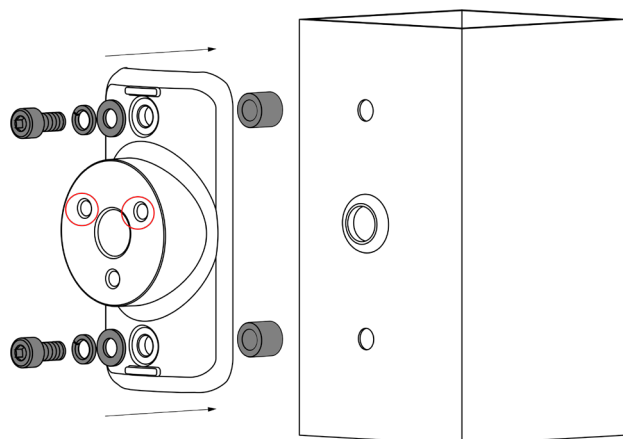
Drill three holes into the surface according the given dimensions.

Insert the cable gland into the middle hole.

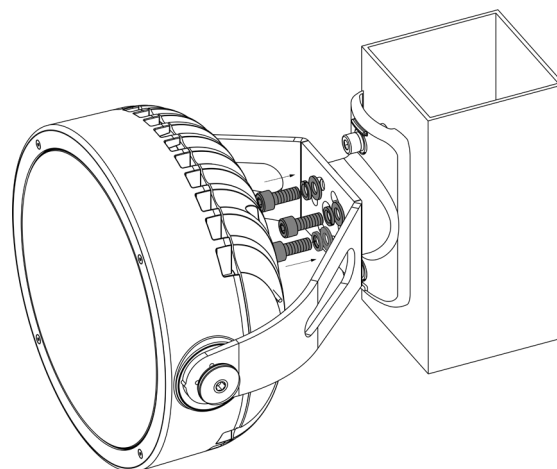
B3



Pole Adaptor must be installed with two holes up



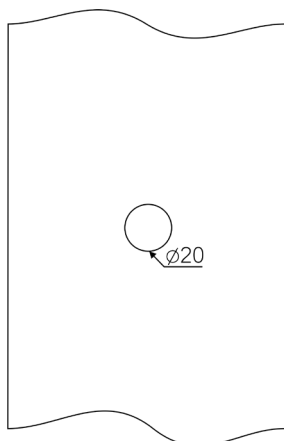
B4



Fasten the Pole Adaptor on the surface by two screws, spring washers, washers and spacers.

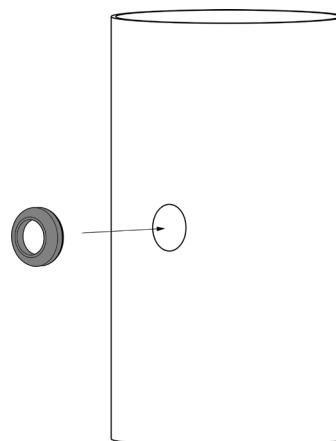
Fasten the Luminaire on the Pole Adaptor by three screws, spring washers and washers.

C1



Drill one hole into the surface according the given dimension.

C2

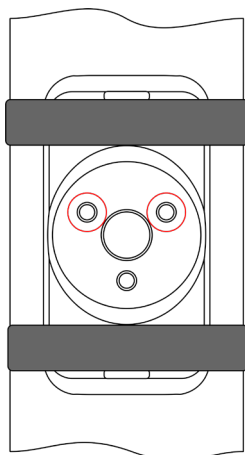


Insert the cable gland into the hole.

C3

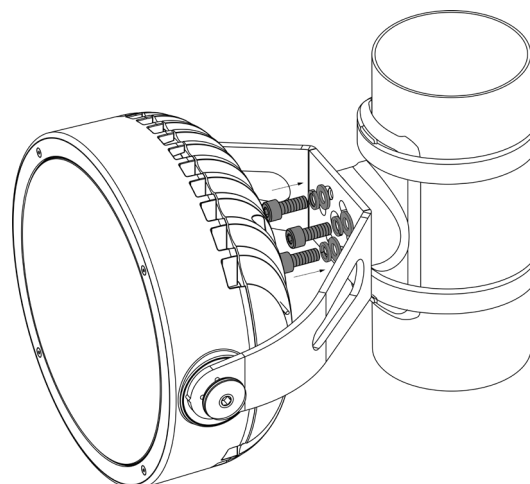


Pole Adaptor must be installed with two holes up



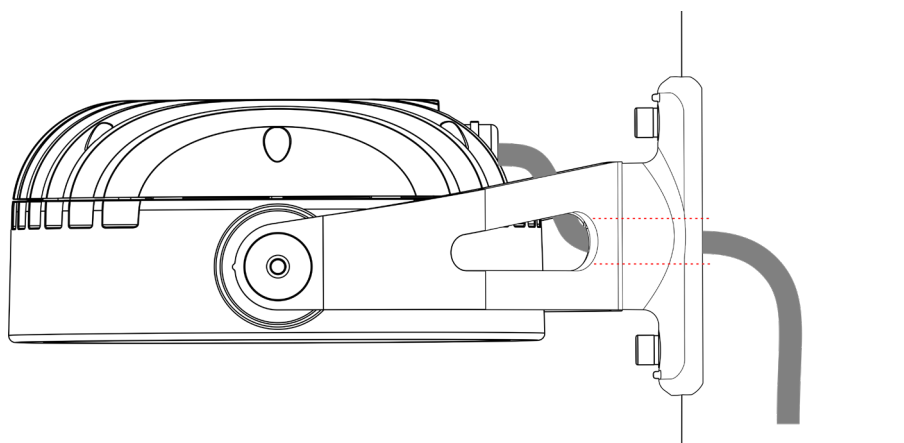
Installation Pole Adaptor with two suitable stainless steel mounting bands.

C4

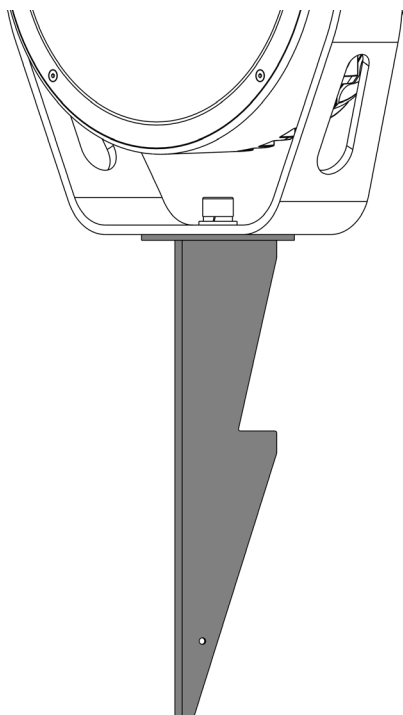


Fasten the Luminaire on the Pole Adaptor by three screws, spring washers and washers.

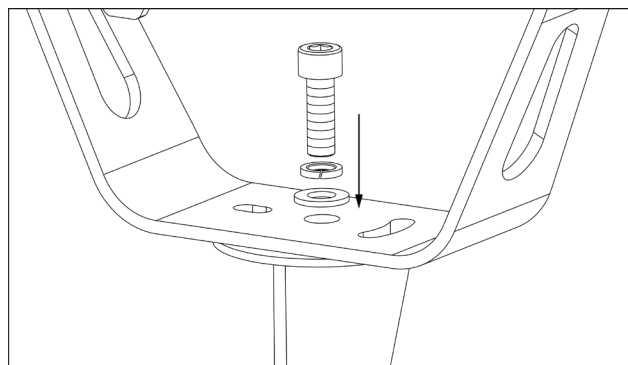
FOR ALL INSTALLATION VERSIONS



Pull the cable through the inside of the Pole Adaptor and the cable gland and return to STEP 3.



LAND SPIKE



Place the luminaire on the Land Spike. The Luminaire fasten by one washer one flexible washer and one screw according to the picture.