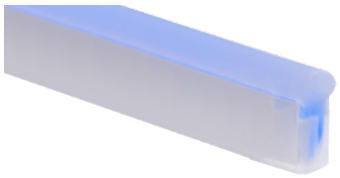
FLEX-ROUND RGBW

FLEX LIGHT



The FLEX series is ideal for spaces where the light will be in direct view. As the name implies, these LED lights are flexible and can be easily molded into different curvatures. The housing and the lens allow for a perfect monochromatic light source with no hot spots. All of QTL's FLEX series fixtures are made with high-quality SMD LED chips, are UV and flame resistant and are extremely energy-efficient.

The FLEX Round RGBW is a color changing light which is controlled by either a QTL supplied DMX controller or one provided by a third party.

Technical Information

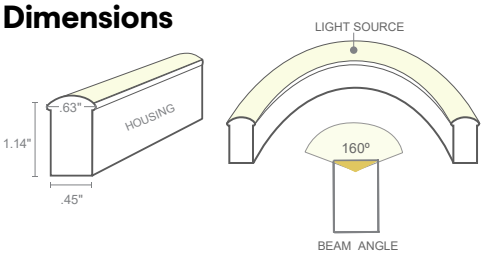
CCT	Lumen/ft	Wavelength
Red	29	630
Green	73	519
Blue	17	463

CCT	Lumen/ft	CRI
2700K	61	86
4000K	67	85

Housing Color

White

Dimensions



HB: Horizontal Bending
Min. 4.72" bending diameter

Part Number Builder

Product	Series	CCT	CRI	Watts/ft	Connector In	Connector In Orientation	Connector In Wire Length	Connector Out	Connector Out Orientation	Connector Out Wire Length	Illuminated Length (in)
FLR-RGBW	**S**		**80**	**4.5**	**IM**			**IM**			
FLR-RGBW FLEX Round RGBW Voltage: 24 VDC	**S** Silicone	**RGBW-27** **RGBW-40**	**80**	**4.5** Up to 43 lm/ft at 2700K	**IM** Injected-Molded	**FC** **BC** **SCL** **SCR** **MT*** **JC***	**1'** **3'** **10'**	**IM** Injected-Molded	**FC** **BC** **SCL** **SCR** **EC** **MT** **JC**	**1'** **3'** **10'** **N/A**	3.94" increments **Nominal max length: 21'**

- Product length = illuminated length + connector length
- For factory assembled connector information, see following pages
- For compatible power supplies, see following pages
- For extrusion options, see following pages (sold separately)

*Used in conjunction with Connector/Orientation Out

- 5 year warranty on silicone
- Impact rating of IK08
- Ambient Working Temperature: -40°F to 113°F
- Ambient Installation Temperature: -40°F
- Max. Mounting Surface Temperature: 185°F
- Storage Temperature: -40°F to 140°F
- UV & Flame resistant construction
- No diode imaging
- Silicone - best for outdoor applications

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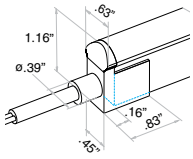
FLEX-ROUND RGBW

FLEX LIGHT

Injected Molded Connectors - IP68

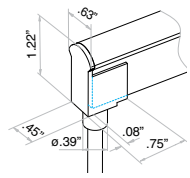
INJECTED-MOLDED CONNECTOR - IP68 | SILICONE

IM-FC



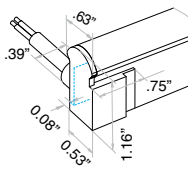
Front

IM-BC



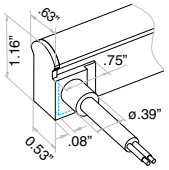
Bottom

IM-SCL



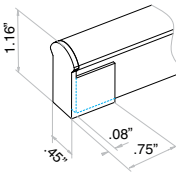
Side-Left

IM-SCR



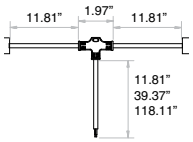
Side-Right

IM-EC



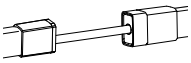
End cap

IM-MT



Middle T-feed

IM-JC



Jumper

Compatible Power Supplies

See website for additional power supply options

QTM-eLED+DMX



QOM-eLED+DMX



QTM-DRIVE



QOM-DRIVE



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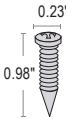
FLEX-ROUND RGBW

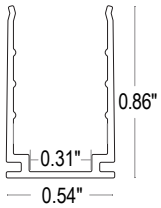
FLEX LIGHT

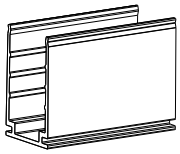
Compatible Extrusions and Clips

NOTE: All extrusions are field cuttable and can be used with silicone housings.
1.5" length acts as a clip when used.

FLR-NONL: Non self-locking aluminum profile
Finish: Satin
Available lengths: 1.5", 19.75", 39.5", 79"

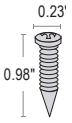


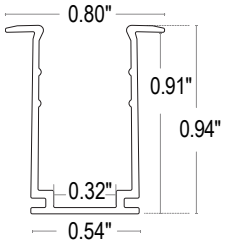


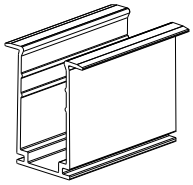




FLR-NONL-FL: Non self-locking flanged aluminum profile
Finish: Satin
Available lengths: 1.5", 19.75", 39.5", 79"

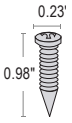


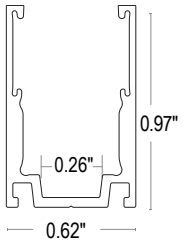


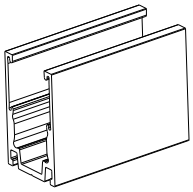




FLR-SELF-SR: Self-locking serrated aluminum profile
Finish: Satin
Available lengths: 1.5", 19.75", 39.5", 79"

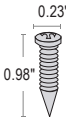


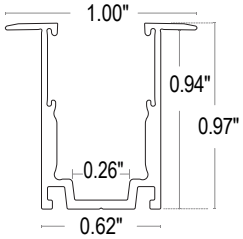


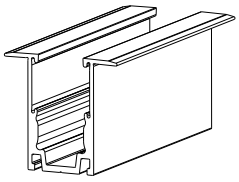




FLR-SELF-FL: Self-locking flanged serrated aluminum profile
Finish: Satin
Available lengths: 1.5", 19.75", 39.5", 79"

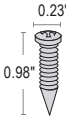


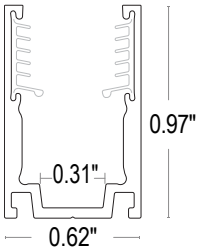


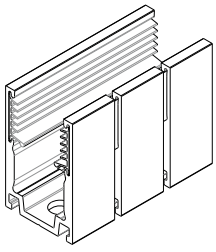


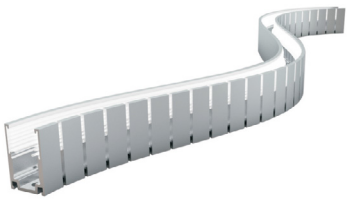


FLR-SELF-BD: Self-locking bendable serrated aluminum profile
Finish: Satin
Available lengths: 19.75", 39.5"









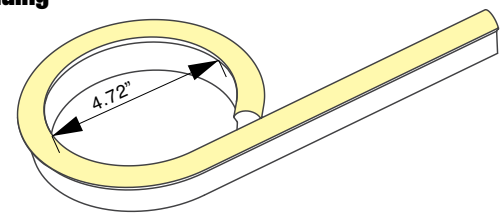
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INSTALLATION FLEX Light - FLEX Round

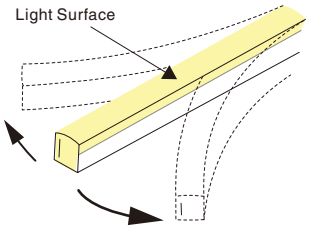
Cautions

1. Before making any cuts, installation, maintenance or connection, be sure the main power is disconnected.
2. Note: all connector joints must be connected correctly to achieve IP68 rating.
3. Please operate this fixture by instructions, and confirm the work voltage, it must be matched with product requirements.
4. Please confirm the polarity of connector before insertion front connection cable.
5. Connect and cut this product correctly. Any wrong operation will damage this product.
6. Use qualified DC power supply.
7. Please correctly use and bend this fixture.
8. Do not operate light when ambient temperature exceeds the range of specified temperature.
9. Do not energize the light over 30 minutes in coil packaging.
10. Do not mix the four colors (R,G,B,W) in full load simultaneously.

Bending

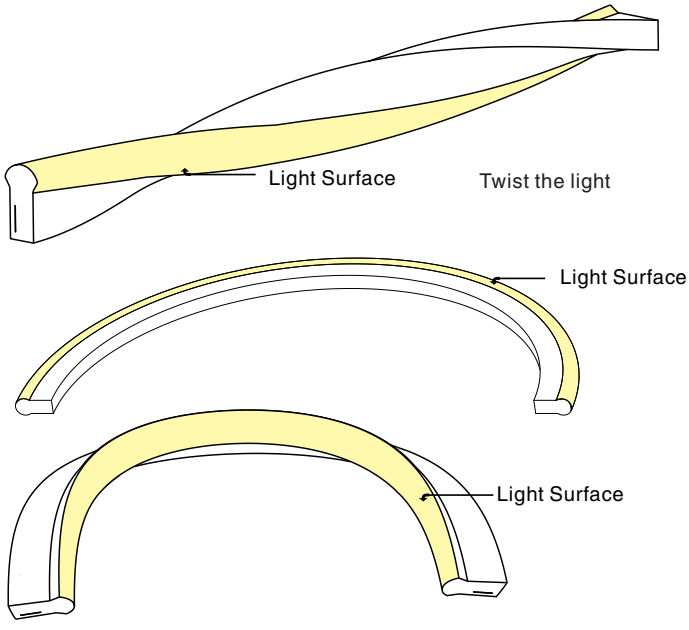


Keep the min. bend diameter 4.72"



(HB)Horizontal Bending

Wrong Approaches



WARNING: The above wrong approaches will damage the light.

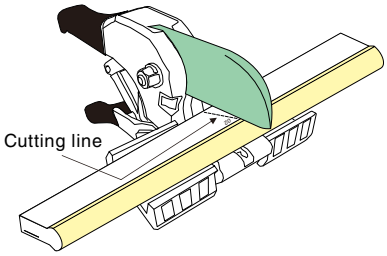
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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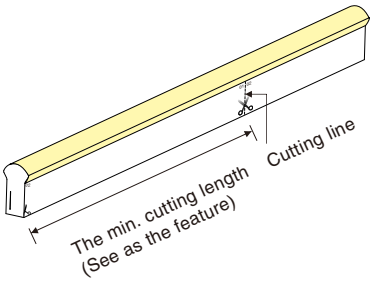
INSTALLATION FLEX Light - FLEX Round

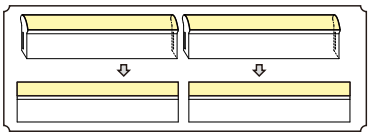
Instructions for Light Cutting

1. Place the light horizontally when cutting it.
2. Use only factory-recommended cutter.
3. Cut the light according to the following instructions. Incorrect operation will damage the light.



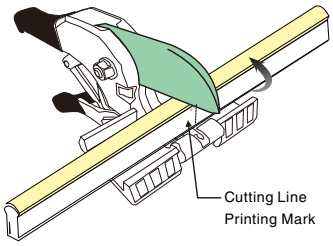
Cut the light only at printed cutting line with printing mark face upwards



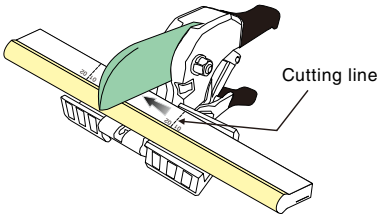


The cutting surface must be flush and smooth.

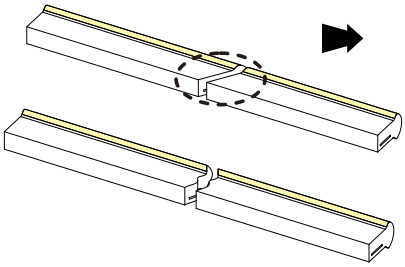
Cautions



Printing mark should be faced upwards

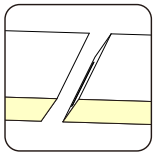


Cutting can only be made at the printed cutting line



Incorrect cutting may lead to water ingression

WARNING: The above mishandling will damage the light.



Don't cut slantingly

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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Specification subject to change. Rev-03-08-21

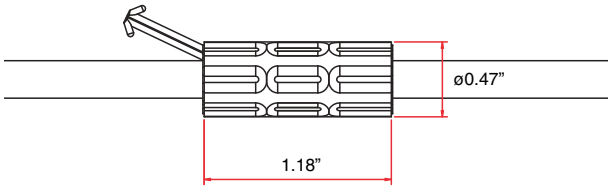
INSTALLATION FLEX Light - FLEX Round

Anti-Wicking Ferrule

The anti-wicking ferrule is located at 4.53" (±0.39" tolerance) from the connector on the cable.

For protection against water ingress from inside of cable wire and hence damage the light.
The removal of the anti-wicking ferrule will void the warranty.

NOTE: Unless otherwise stated, the tolerance is ±0.02".

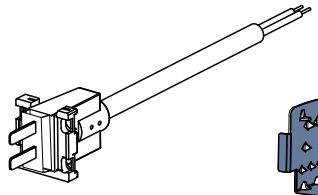


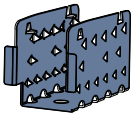
Screw Front Connector

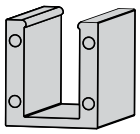
Please ignore these steps if the front connector has been assembled before delivery.
NOTE:
1. Never wet the assembly units or assemble with wet hands.
2. Please use the tools correctly.
3. Please pay attention to personal security when using tools.

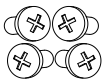
Components

NOTE:
The light ends are marked with either an 01 or an 02. Always make sure to use an identically labeled connector for the appropriate direction.

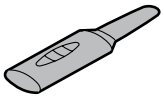

Feed Connector (1pc)
[Contain Silicone Gasket (1pc)]


Anti-skidding Clip (1pc)

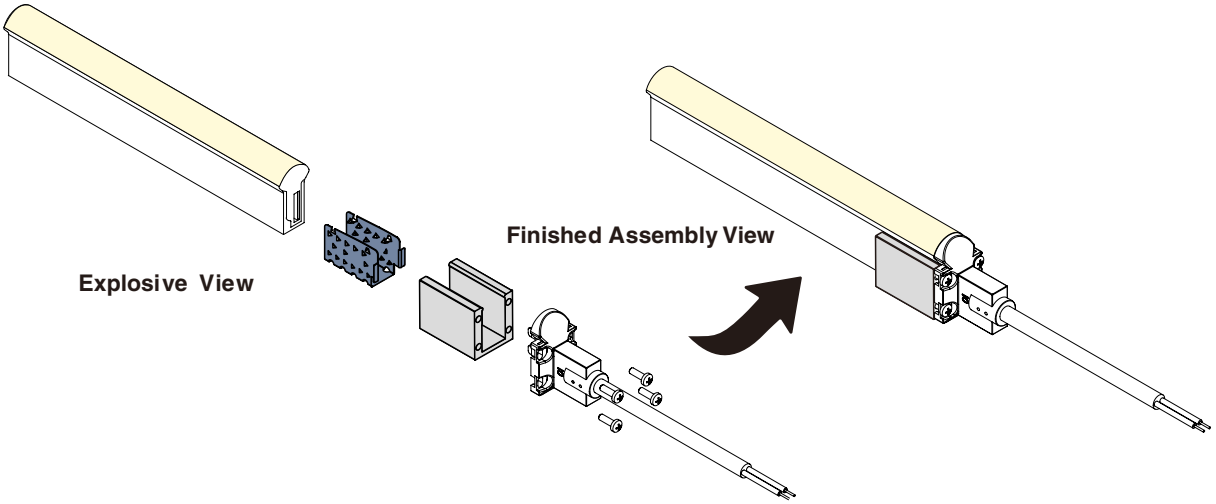

Aluminum Mounting Piece (1pc)


Screws (4pcs)

Tools


Inducer


Screwdriver



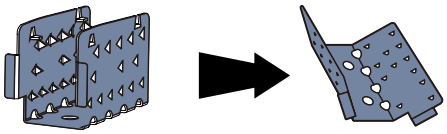
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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INSTALLATION FLEX Light - FLEX Round

Screw Front Connector

1. Treatment of Anti-Skidding Clip

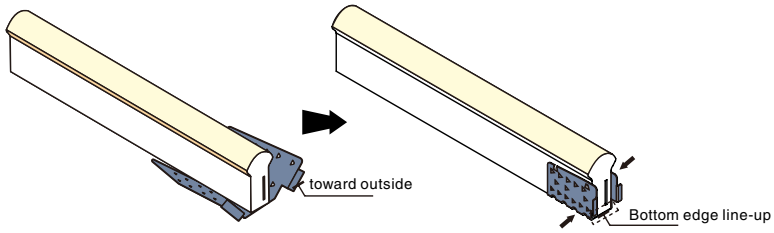


Gently unfold the anti-skidding clip about 20 degrees on both sides as the picture shows.

---

2. Installation of Anti-Skidding Clip

Prepare the light, and the end surface should be flush and smooth.

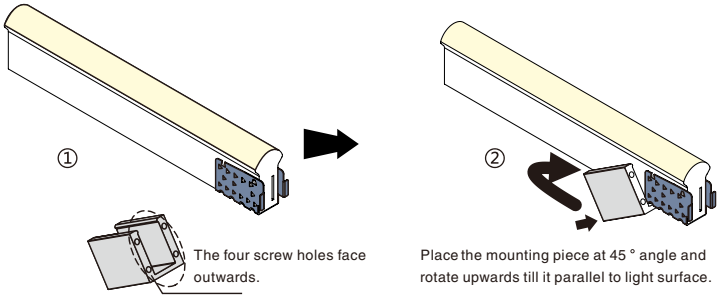


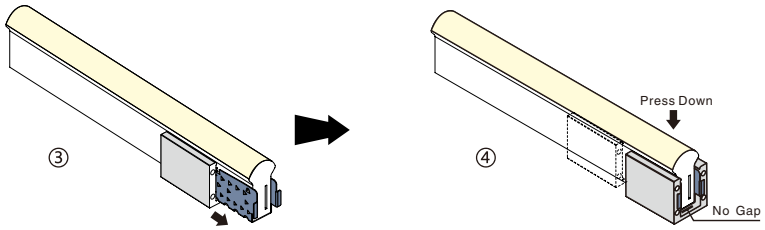
Place the anti-skidding clip onto the end of the light with tiny stabs pointing inwards.

Fit the anti-skidding clip to the end of light so that it wraps tightly and its brim is aligned with the bottom cut edge of the light.

---

3. Installation of Aluminum Mount Piece





Clamp the anti-skidding clip edges and slide the mounting piece onto the anti-skidding clip straightly till end to cover the anti-skidding clip.

Press the light surface down and make sure the bottom of light, anti-skidding clip and the mounting piece are attached tightly.

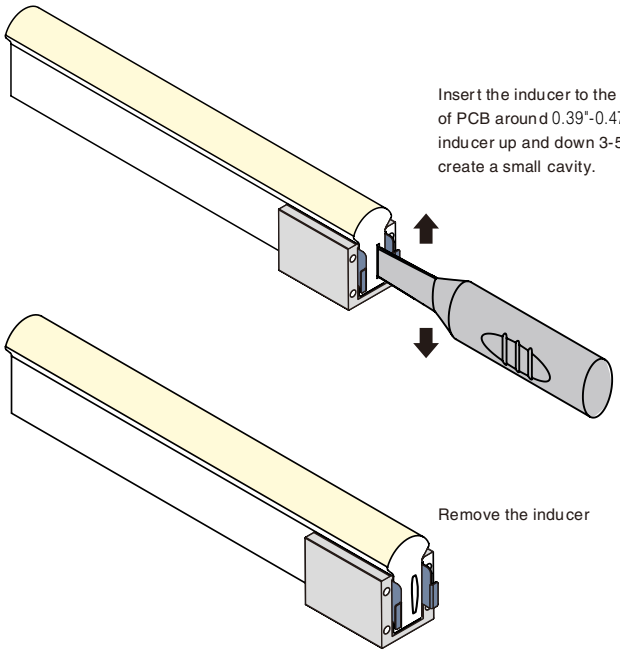
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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INSTALLATION FLEX Light - FLEX Round

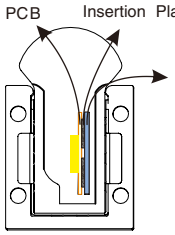
Screw Front Connector

4. Inducing a Cavity for Feed Connector

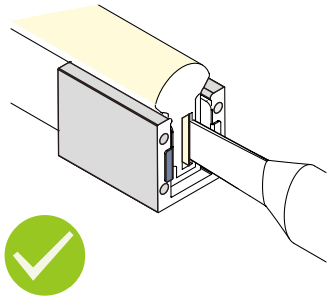


Insert the inducer to the backside of PCB around 0.39"-0.47" move the inducer up and down 3-5 times to create a small cavity.

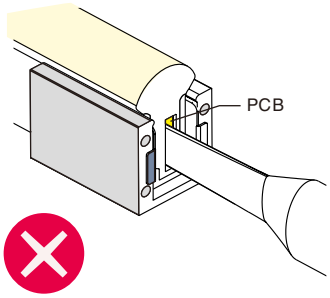
Remove the inducer



NEVER insert into the front side (LED side) of the PCB

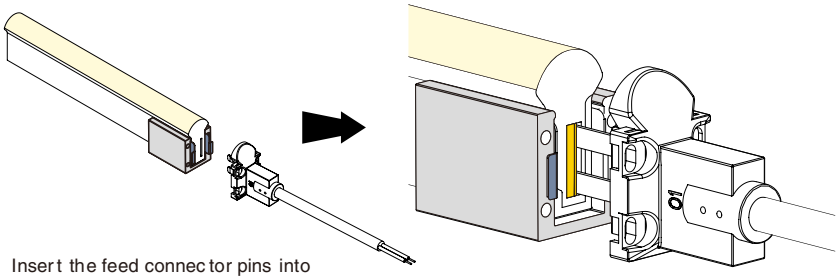


Insert the inducer into the backside of PCB



It will damage the light if insert into front side ofPCB.

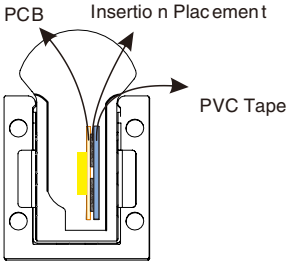
5. Inserting the Feed Connector



Insert the feed connector pins into the cavity that you created with the inducer (backside of PCB).

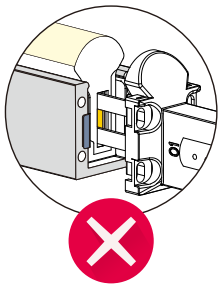
The silicone gasket is attached on the feed connector.

NEVER insert into the front side (LED side) of the PCB

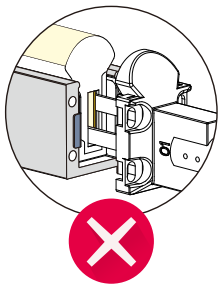


Correct Operation:
The pins must be inserted into the BACKSIDE of the PCB.

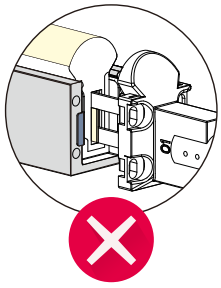
These operations are prohibited:



Insert into the front side of the PCB



Insert crosswise into the PCB



Insert crosswise into the PCB

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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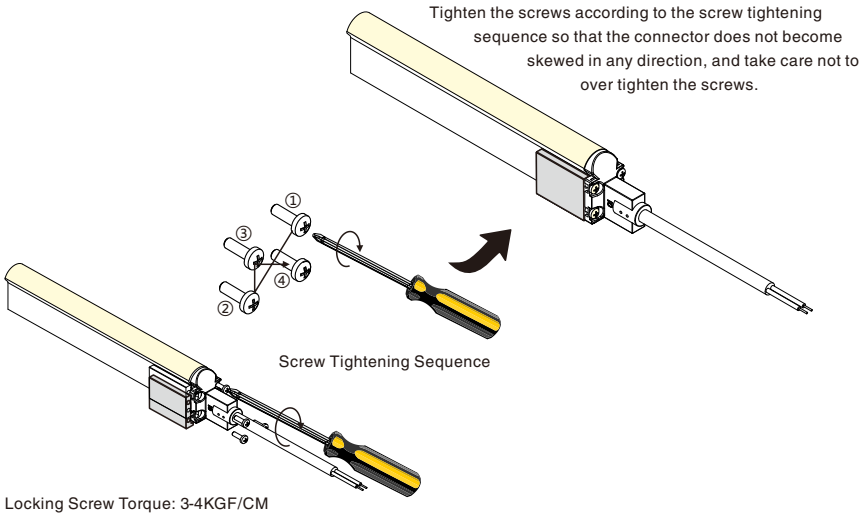
Specification subject to change. Rev-03-08-21

INSTALLATION FLEX Light - FLEX Round

Screw Front Connector

5.6. Screws for Fixation for Front Connector

Please energize the light to check its functionality and do waterproof reliablity testing after connector assembly.



NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

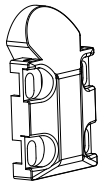
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INSTALLATION FLEX Light - FLEX Round

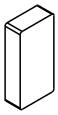
Screw End Cap

Please ignore these steps if the front connector has been assembled before delivery.
NOTE:
1. Never wet the assembly units or assemble with wet hands.
2. Please use the tools correctly.
3. Please pay attention to personal security when using tools.

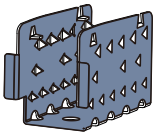
Components



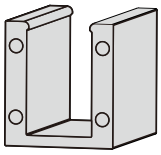
The Tail Plug (1pc)



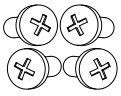
Silicone Gasket (1pc)



Anti-skidding Clip (1pc)

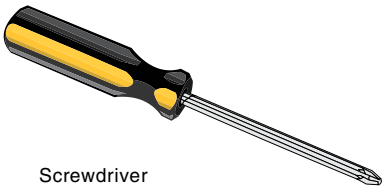


Aluminum Mounting Piece (1pc)

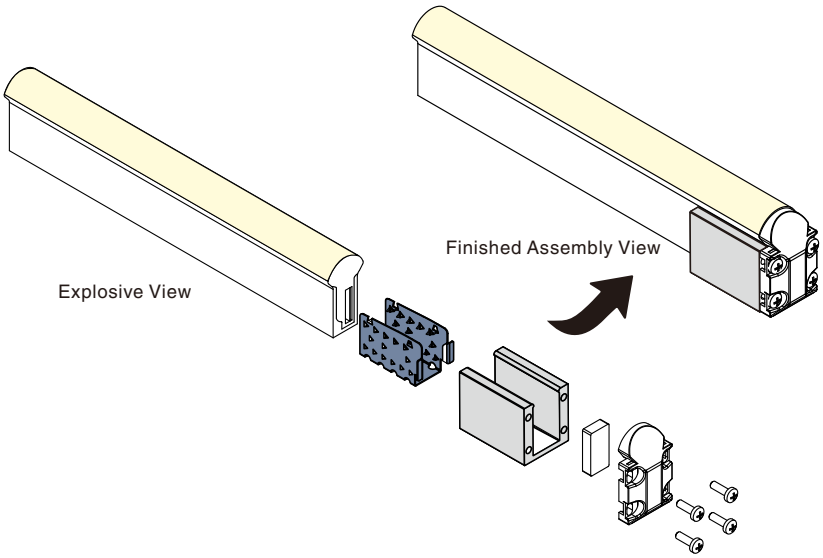


Screws (4pcs)

Tools



Screwdriver



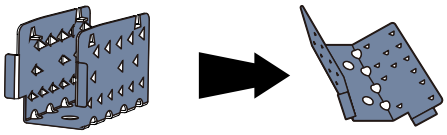
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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INSTALLATION FLEX Light - FLEX Round

Screw End Cap

1. Treatment of Anti-Skidding Clip

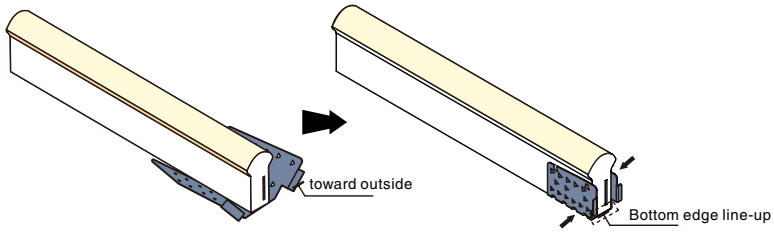


Gently unfold the anti-skidding clip about 20 degrees on both sides as the picture shows.

---

2. Installation of Anti-Skidding Clip

Prepare the light, and the end surface should be flush and smooth.

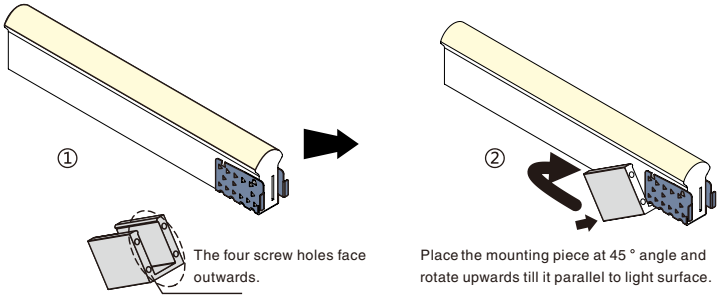


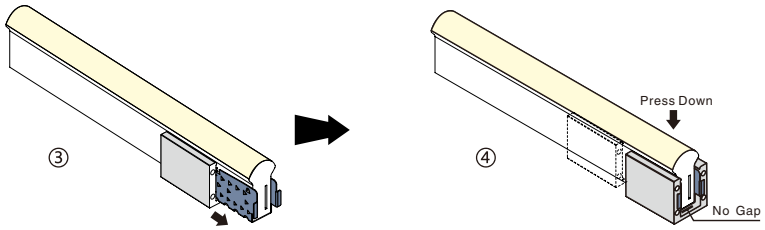
Place the anti-skidding clip onto the end of the light with tiny stabs pointing inwards.

Fit the anti-skidding clip to the end of light so that it wraps tightly and its brim is aligned with the bottom cut edge of the light.

---

3. Installation of Aluminum Mount Piece





Clamp the anti-skidding clip edges and slide the mounting piece onto the anti-skidding clip straightly till end to cover the anti-skidding clip.

Press the light surface down and make sure the bottom of light, anti-skidding clip and the mounting piece are attached tightly.

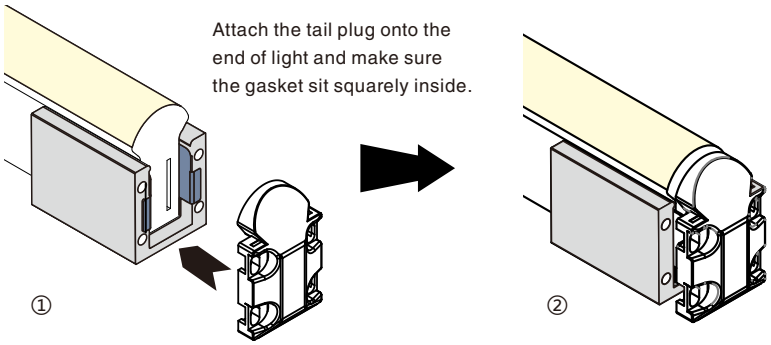
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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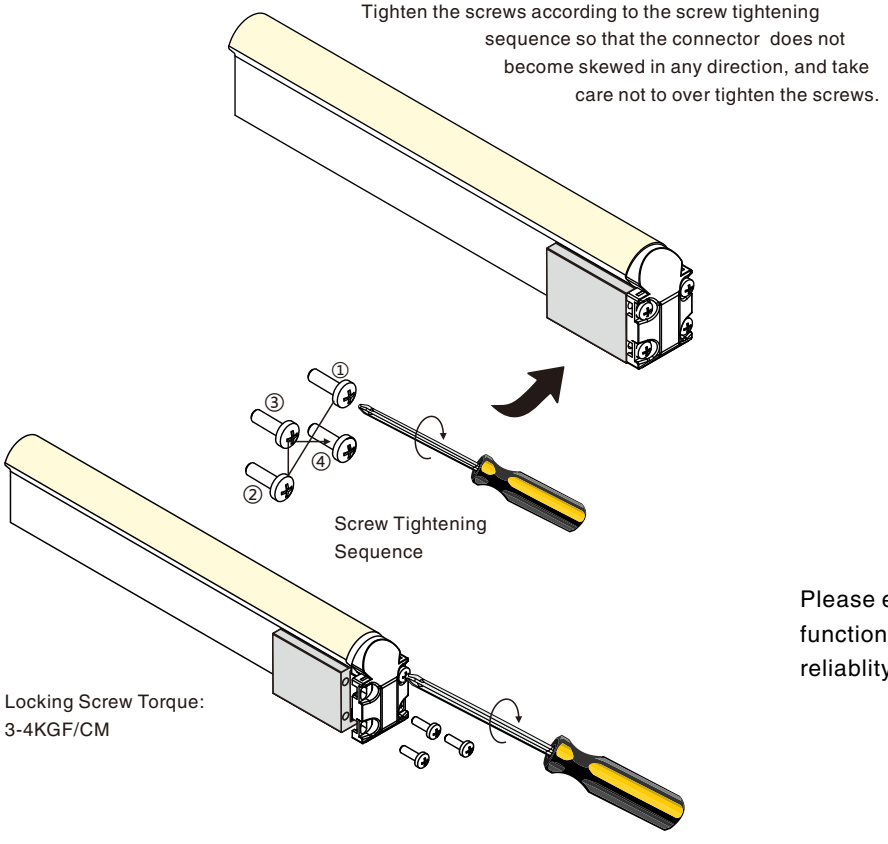
INSTALLATION FLEX Light - FLEX Round

Screw End Cap

4. Screw Fixation for End Cap



The silicone gasket is attached on the tail plug.



Please energize the light to check its functionality and do waterproof reliablity testing after connector assembly.

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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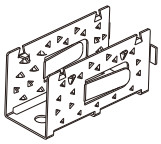
INSTALLATION FLEX Light - FLEX Round

Clasp Front Connector

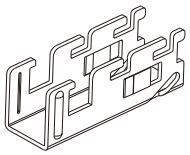
Please ignore these steps if the front connector has been assembled before delivery.
NOTE:
1. Never wet the assembly units or assemble with wet hands.
2. Please use the tools correctly.
3. Please pay attention to personal security when using tools.

Components

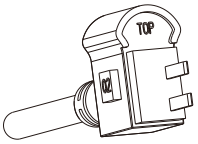
NOTE:
The light ends are marked with either an 01 or an 02. Always make sure to use an identically labeled connector for the appropriate direction.



Anti-skidding Clip (1pc)

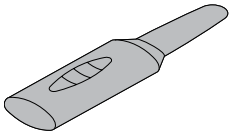


U Steel Plate (1pc)

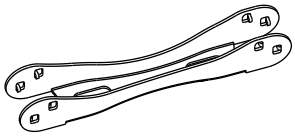


Feed Connector (1pc)
[Contain Silicone Gasket (1pc)]

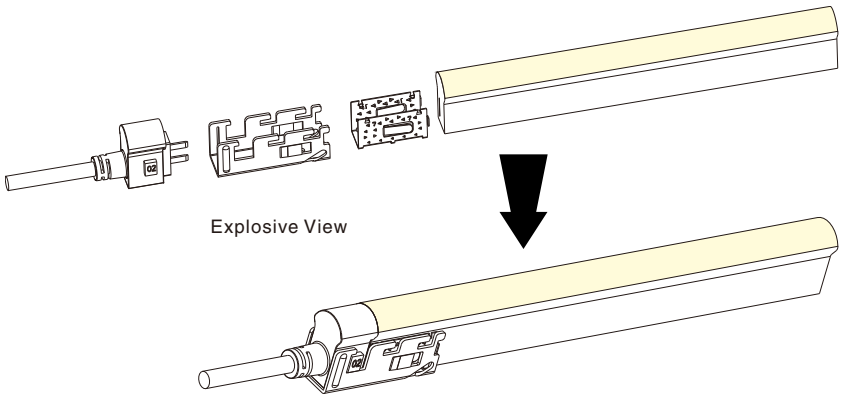
Tools



Inducer



Gripper



Explosive View

Finished Assembly View

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

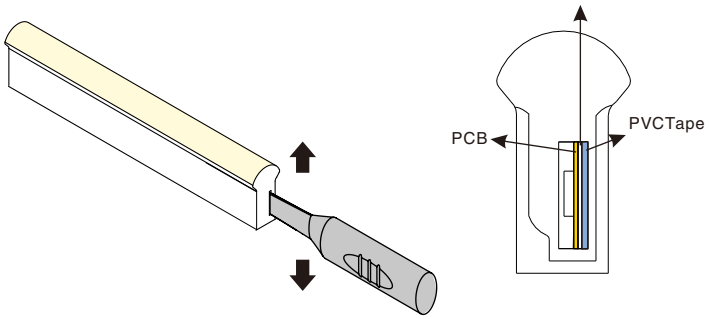
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Specification subject to change. Rev-03-08-21

INSTALLATION FLEX Light - FLEX Round

Clasp Front Connector

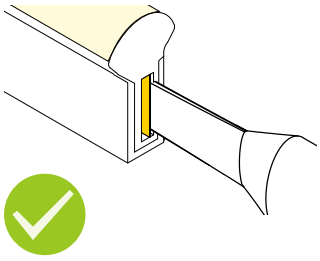
1. Inducing a Cavity for Feed Connector



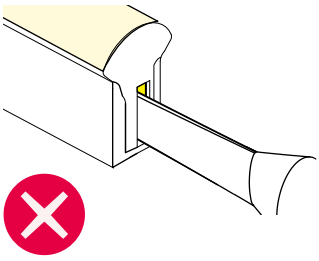
NEVER insert into the front side (LED side) of the PCB

Insert the inducer to the backside of PCB around 0.39”-0.47”, move the inducer up and down 3-5 times gently to create a small cavity.

Insert the inducer to the backside of PCB around 0.39”-0.47”, move the inducer up and down 3-5 times gently to create a small cavity.



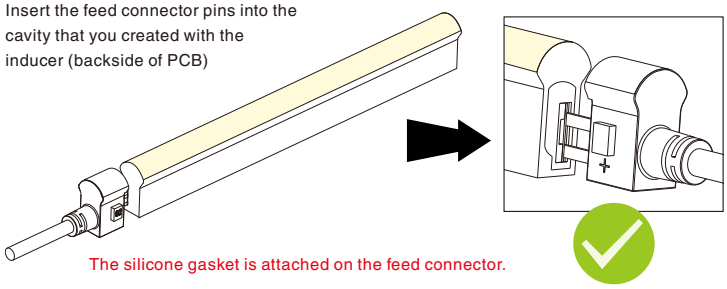
Insert the inducer into the backside of PCB



It will damage the light if inserted into front side of PCB

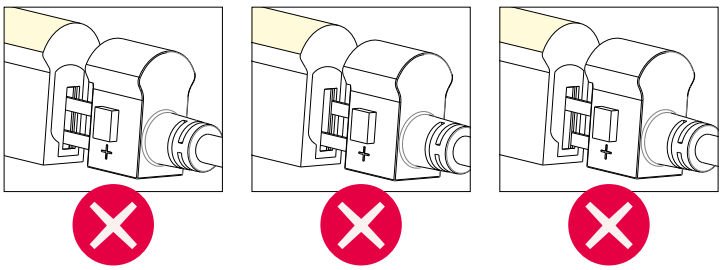
2. Insert the Feed Connector

Insert the feed connector pins into the cavity that you created with the inducer (backside of PCB)



The silicone gasket is attached on the feed connector.

The following operations are prohibited:



Insert into the front side of the PCB

Insert crosswise into the PCB

Insert crosswise into the PCB

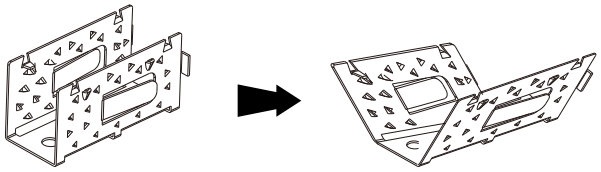
NOTES: • Field modifications must comply with Q-Tran’s installation methods otherwise warranty is null and void

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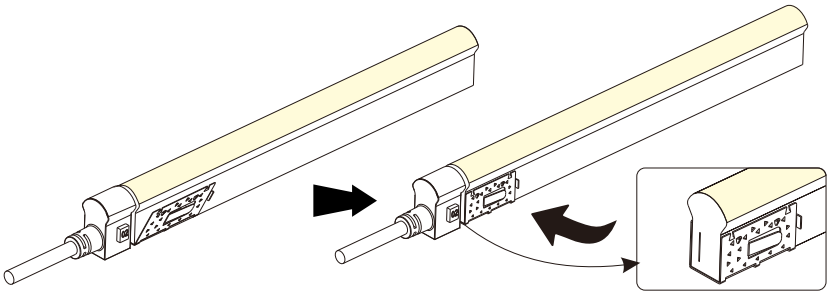
INSTALLATION FLEX Light - FLEX Round

Clasp Front Connector

3. Treatment of Anti-skidding clip



Unfold the anti-skidding clip about 20 degrees on both sides.

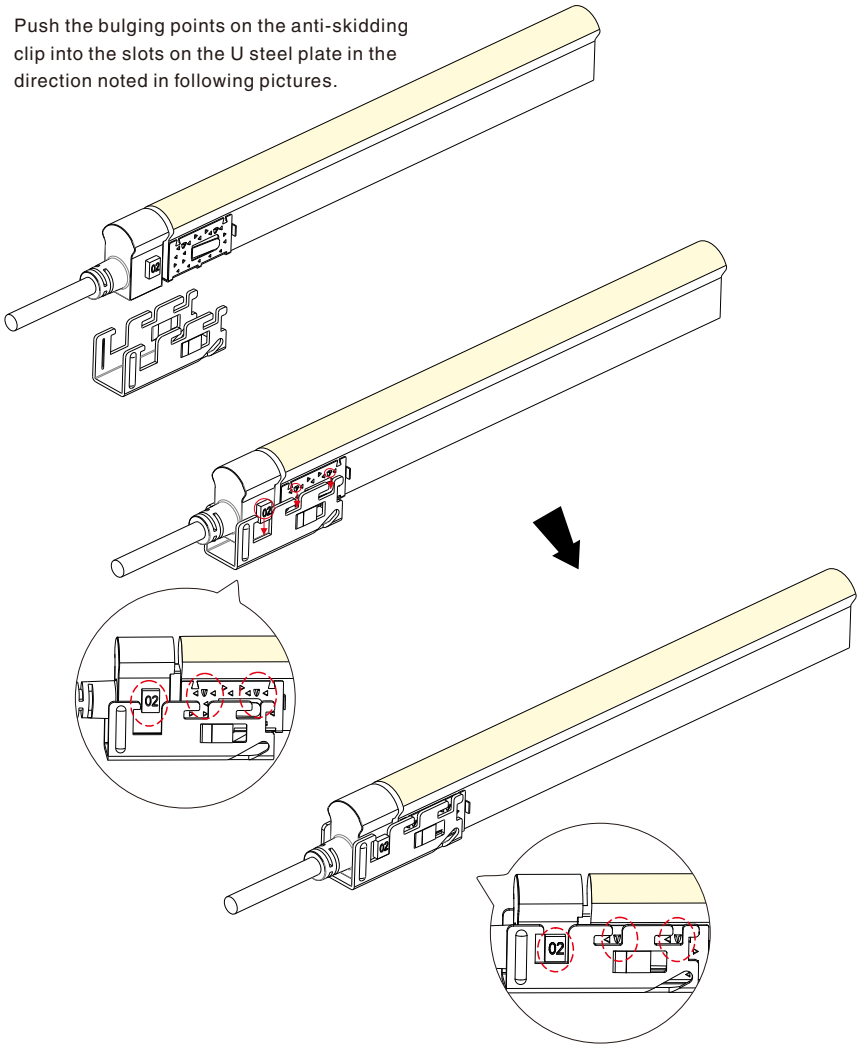


Place the anti-skidding clip onto the end of the light.
Notice its installation direction.

Fit the anti-skidding clip to the end of the light tightly and align with the light end edge.

4. Installation for U Steel Plate

Push the bulging points on the anti-skidding clip into the slots on the U steel plate in the direction noted in following pictures.



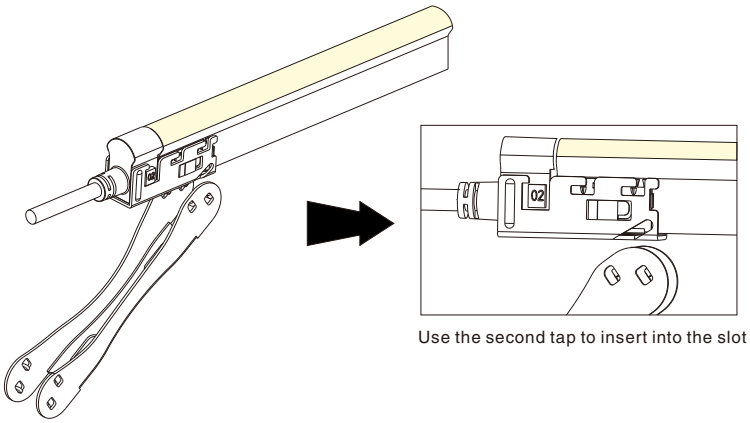
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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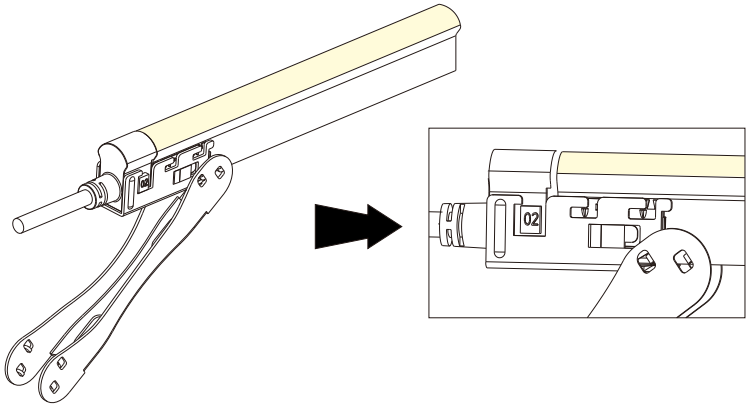
INSTALLATION FLEX Light - FLEX Round

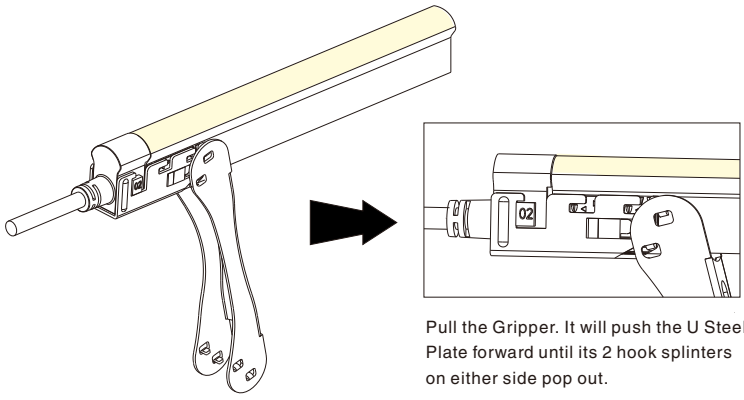
Clasp Front Connector

5. Push the anti-skidding clip to the end until the two hook splinters on each side pop out to lock the U steel plate. Use the gripper to help tighten the piece.

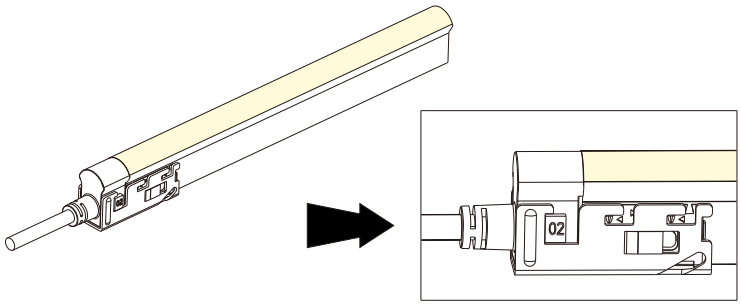


Use the second tap to insert into the slot





Pull the Gripper. It will push the U Steel Plate forward until its 2 hook splinters on either side pop out.



Please energize the light to check its functionality and do waterproof reliablity testing after connector assembly.

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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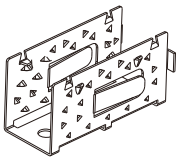
INSTALLATION FLEX Light - FLEX Round

Clasp End Cap

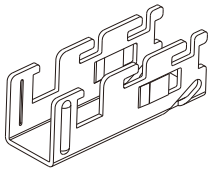
Please ignore these steps if the front connector has been assembled before delivery.
NOTE:
1. Never wet the assembly units or assemble with wet hands.
2. Please use the tools correctly.
3. Please pay attention to personal security when using tools.

Components

NOTE:
The light ends are marked with either an 01 or an 02. Always make sure to use an identically labeled connector for the appropriate direction.



Anti-skidding Clip (1pc)



U Steel Plate (1pc)

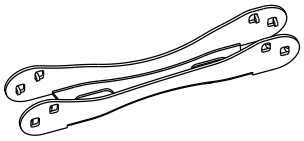


Silicone Gasket(1pc)

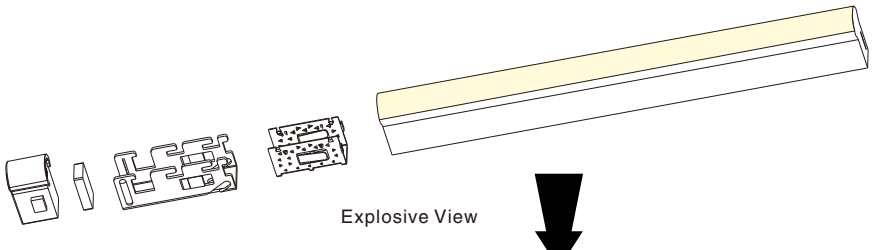


Tail Plug (1pc)

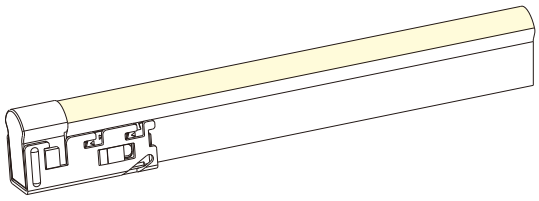
Tools



Gripper



Explosive View



Finished Assembly View

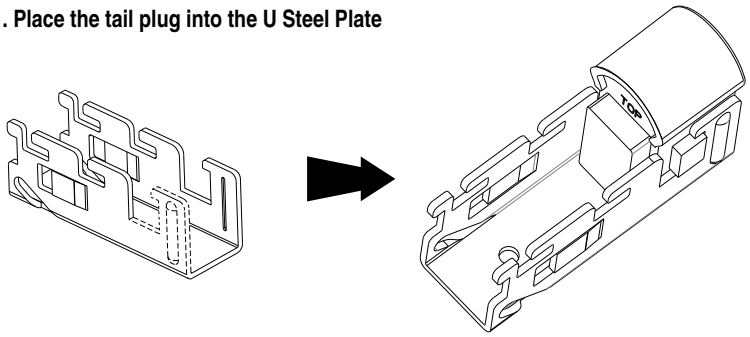
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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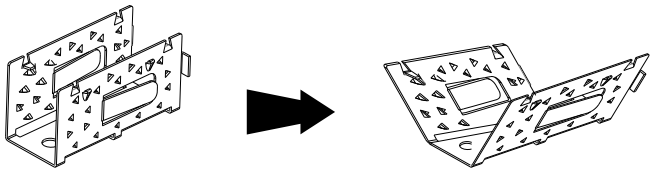
INSTALLATION FLEX Light - FLEX Round

Clasp End Cap

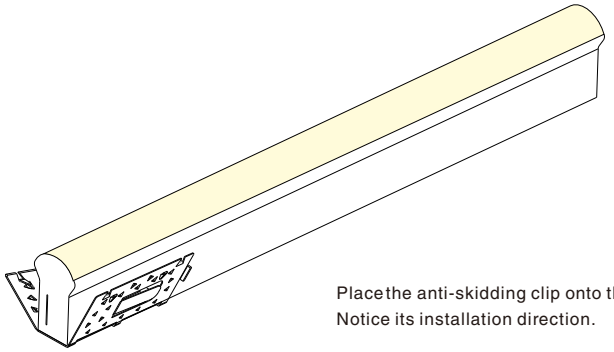
1. Place the tail plug into the U Steel Plate



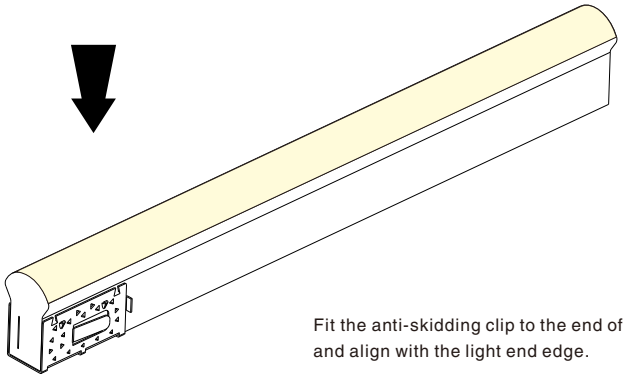
2. Treatment of Anti-Skidding Clip



Unfold the anti-skidding clip about 20 degrees on both sides.



Place the anti-skidding clip onto the end of the light.
Notice its installation direction.



Fit the anti-skidding clip to the end of the light tightly
and align with the light end edge.

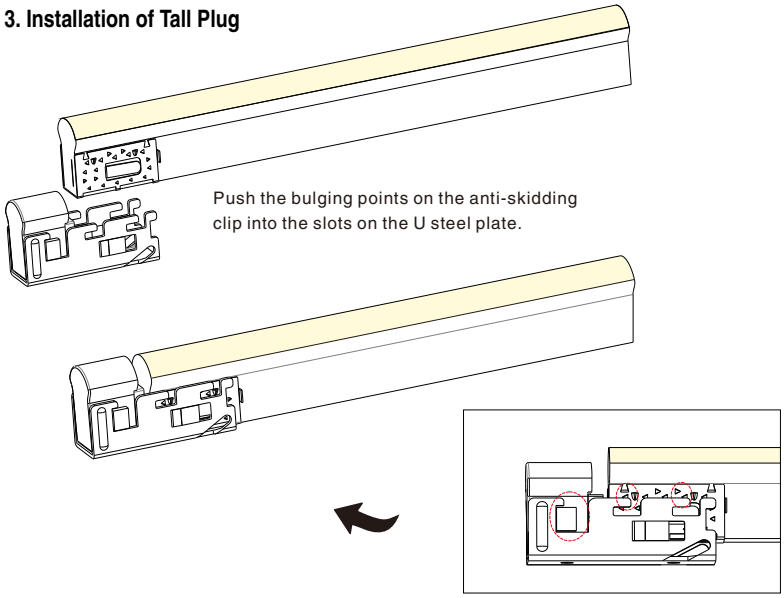
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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INSTALLATION FLEX Light - FLEX Round

Clasp End Cap

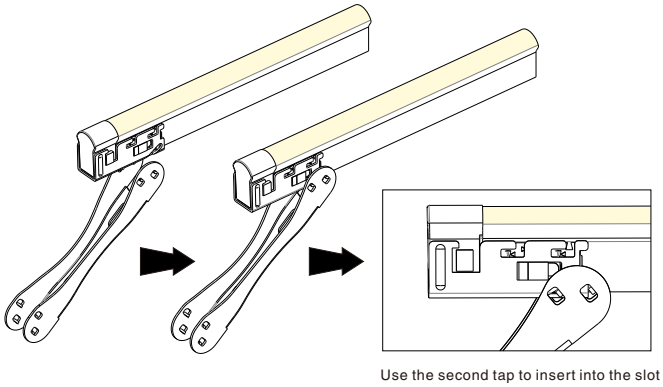
3. Installation of Tall Plug



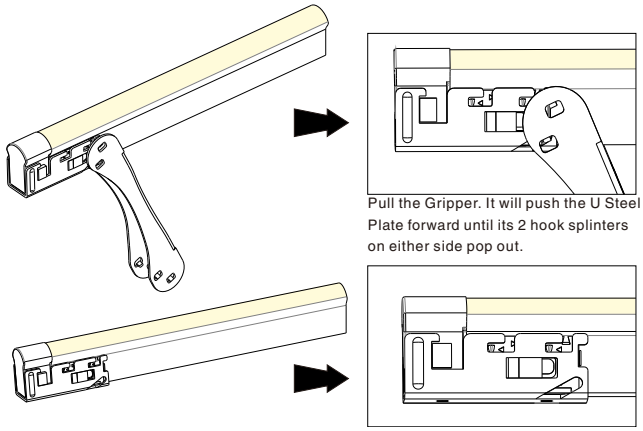
Push the bulging points on the anti-skidding clip into the slots on the U steel plate.

---

4. Push the anti-skidding clip to the end until the two hook splinters on each side pop out to lock the U steel plate. Use the gripper to help tighten the piece.



Use the second tap to insert into the slot



Pull the Gripper. It will push the U Steel Plate forward until its 2 hook splinters on either side pop out.

Please energize the light to check its functionality and do waterproof reliablity testing after connector assembly.

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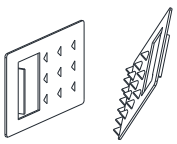
INSTALLATION FLEX Light - FLEX Round

Sleeve Front Connector

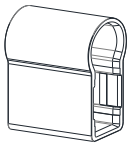
Please ignore these steps if the front connector has been assembled before delivery.
NOTE:
1. Never wet the assembly units or assemble with wet hands.
2. Please use the tools correctly.
3. Please pay attention to personal security when using tools.

Components

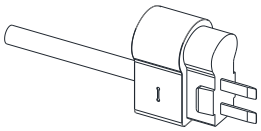
NOTE:
The light ends are marked with either an 01 or an 02. Always make sure to use an identically labeled connector for the appropriate direction.



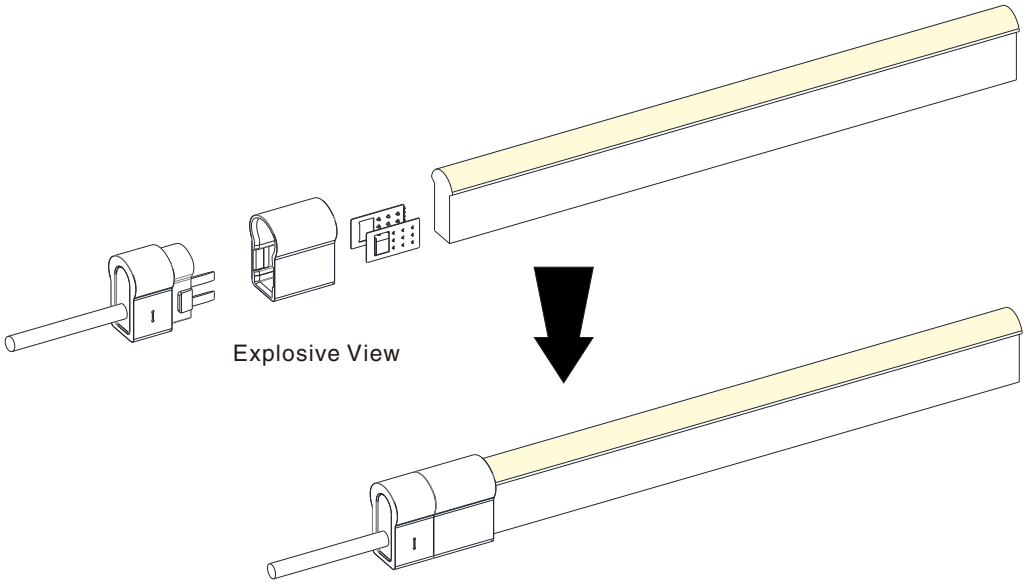
Anti-skidding Clip (2pcs)



PC Cover (1pc)



Feed Connector (1pc)



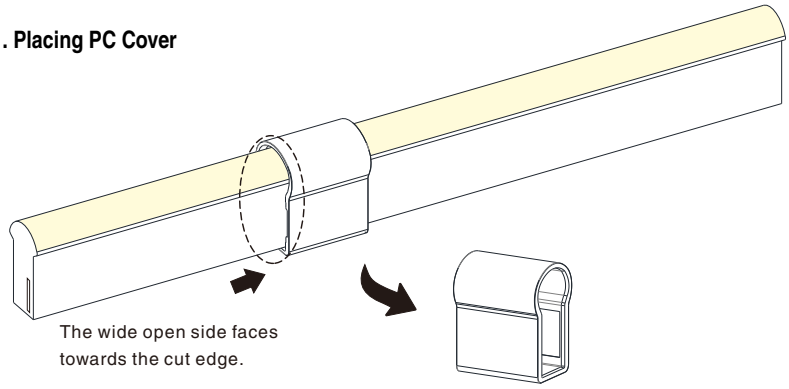
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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INSTALLATION FLEX Light - FLEX Round

Sleeve Front Connector

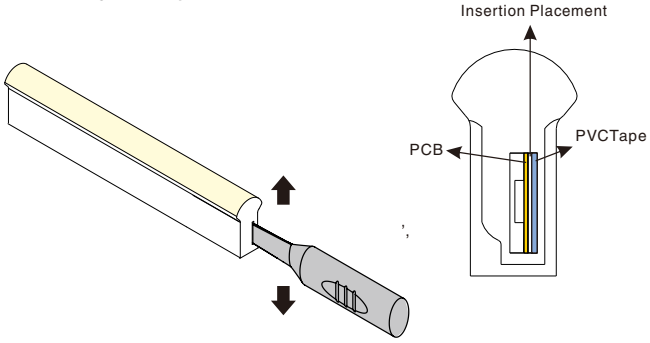
1. Placing PC Cover



Pay attention the direction of the PC cover

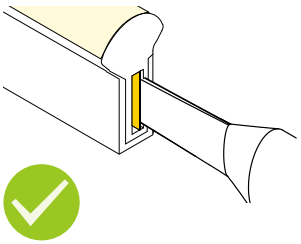
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2. Inducing a Cavity for Feed Connector

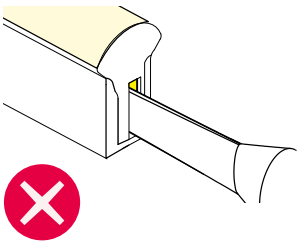


NEVER insert into the front side
(LED side) of the PCB

Insert the inducer to the backside of PCB around 0.39"-0.47", move the inducer up and down 3-5 times gently to create a small cavity.



Insert the inducer into the backside of PCB

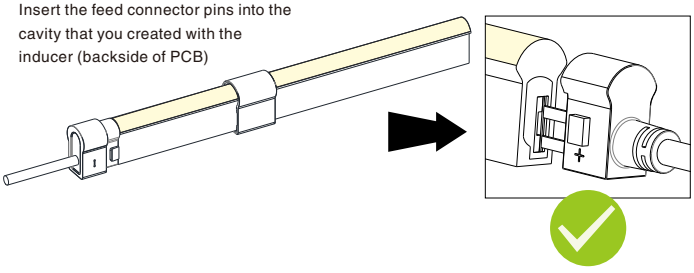


It will damage the light if inserted into front side of PCB

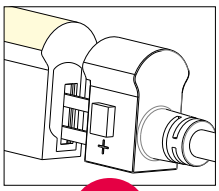
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2. Insert the Feed Connector

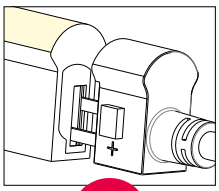
Insert the feed connector pins into the cavity that you created with the inducer (backside of PCB)



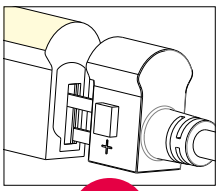
The following operations are prohibited:



Insert into the front side of the PCB



Insert crosswise into the PCB



Insert crosswise into the PCB

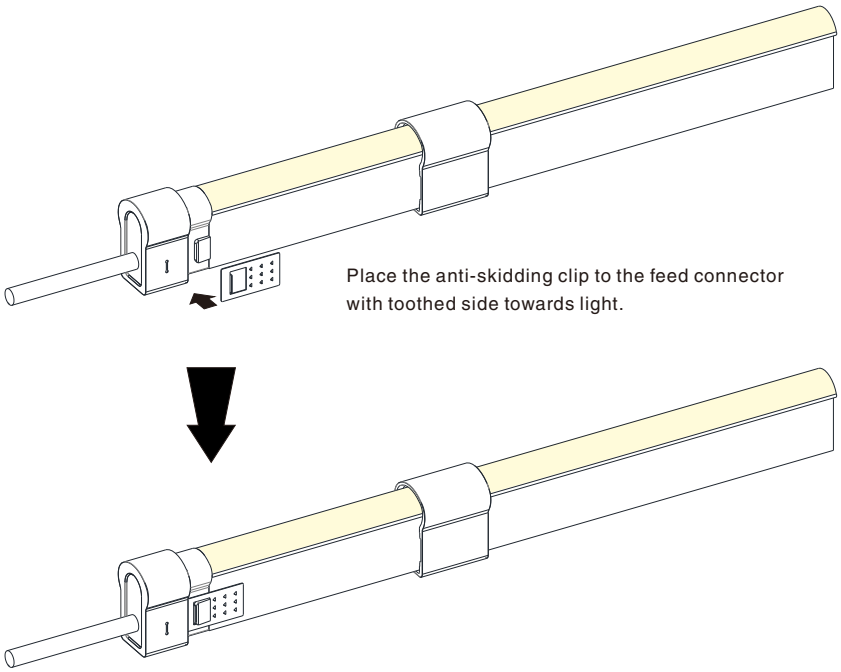
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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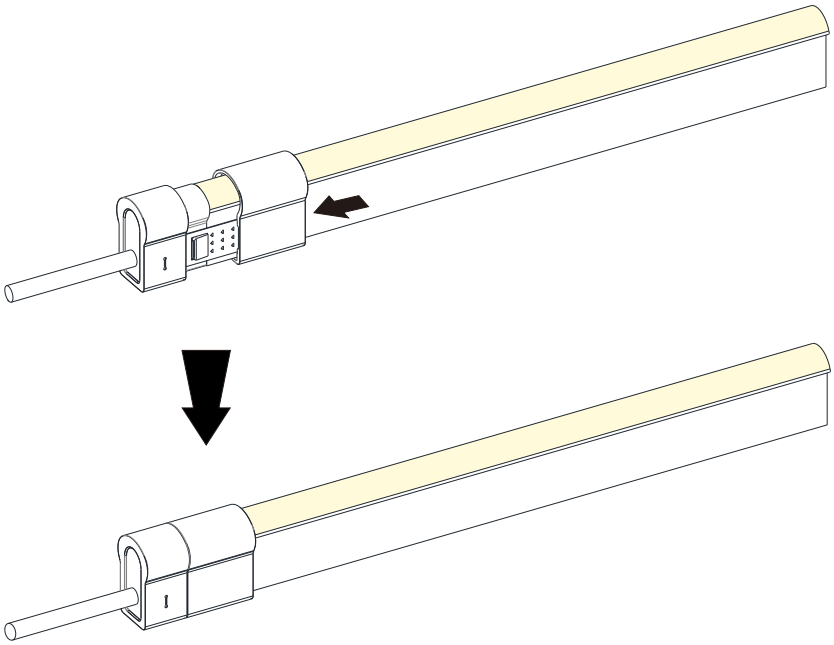
INSTALLATION FLEX Light - FLEX Round

Sleeve Front Connector

4. installation of Anti-Skidding Clip



5. Slide back the PC Cover to cover the anti-skidding clip completely.



Please energize the light to check its functionality after connector assembly.

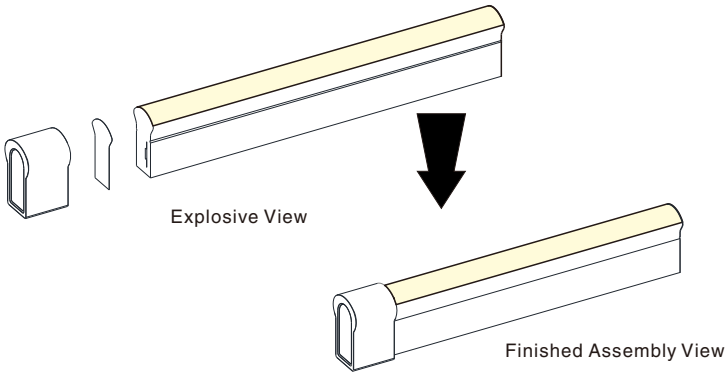
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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INSTALLATION FLEX Light - FLEX Round

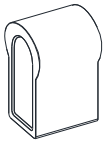
Sleeve End Cap

Please ignore these steps if the front connector has been assembled before delivery.
NOTE:
1. Never wet the assembly units or assemble with wet hands.
2. Please use the tools correctly.
3. Please pay attention to personal security when using tools.



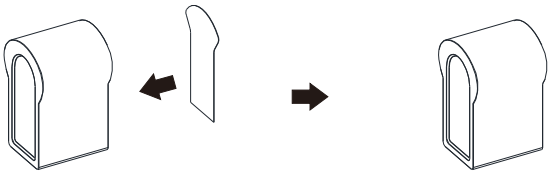
Components

NOTE:
The light ends are marked with either an 01 or an 02. Always make sure to use an identically labeled connector for the appropriate direction.

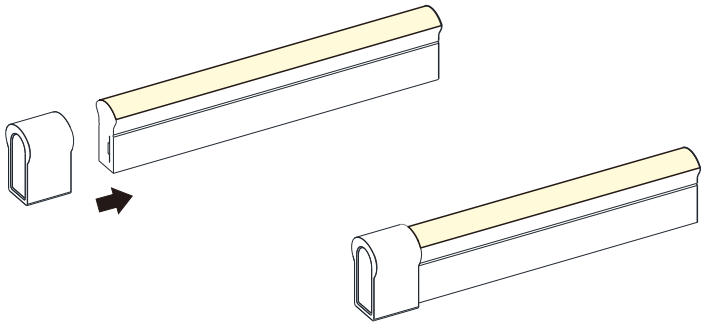

PC Cover (1pc)


Shading Sheet (1pc)

1. Placing Shading Sheet



2. Insert the PC Cover



NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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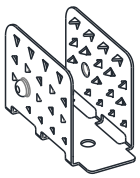
INSTALLATION FLEX Light - FLEX Round

Snap Front Connector

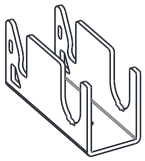
Please ignore these steps if the front connector has been assembled before delivery.
NOTE:
1. Never wet the assembly units or assemble with wet hands.
2. Please use the tools correctly.
3. Please pay attention to personal security when using tools.

Components

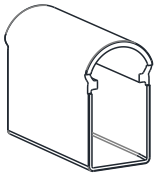
NOTE:
The light ends are marked with either an 01 or an 02. Always make sure to use an identically labeled connector for the appropriate direction.



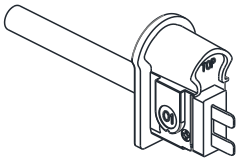
Anti-skidding Clip (1pcs)



U Steel Plate (1pc)

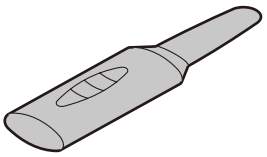


PC Cover (1pc)

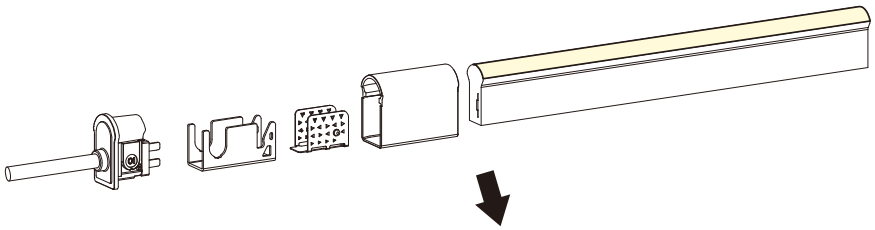


Feed Connector (1pc)

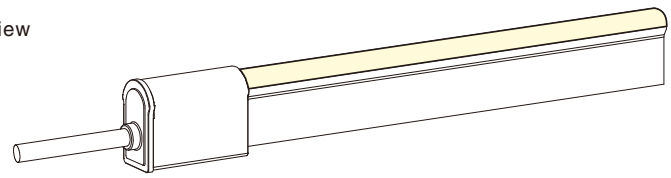
Tools



Inducer



Explosive View



Finished Assembly View

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

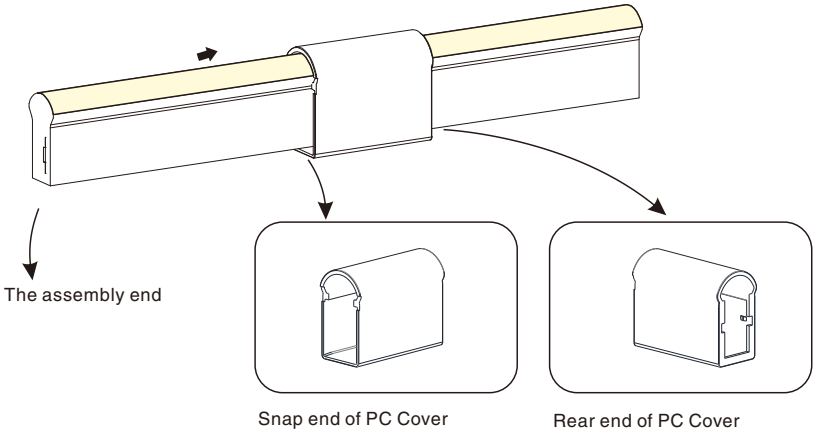
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INSTALLATION FLEX Light - FLEX Round

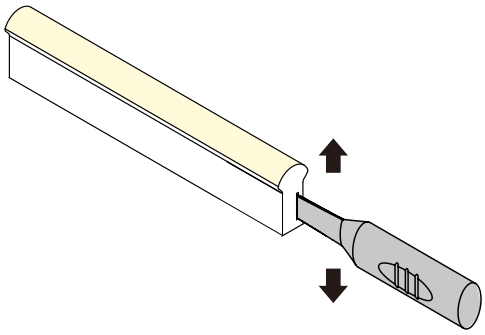
Snap Front Connector

1. Placing PC Cover

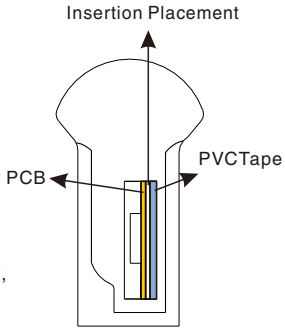
Pay attention to the direction marked on the bottom of PC cover.



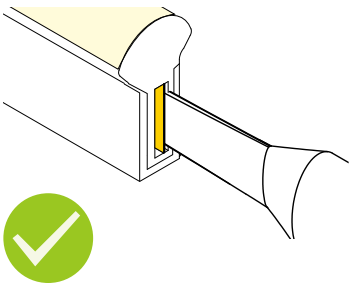
2. Inducing a Cavity for Feed Connector



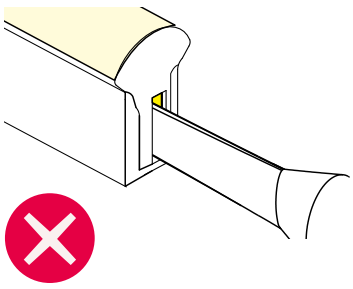
NEVER insert into the front side (LED side) of the PCB



Insert the inducer to the backside of PCB around 0.39”-0.47”, move the inducer up and down 3-5 times gently to create a small cavity.



Insert the inducer into the backside of PCB



It will damage the light if inserted into front side of PCB

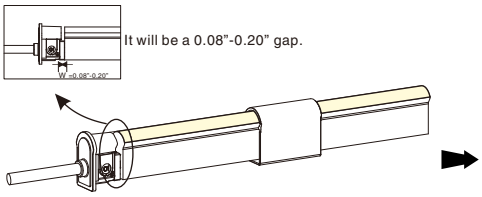
NOTES: • Field modifications must comply with Q-Tran’s installation methods otherwise warranty is null and void

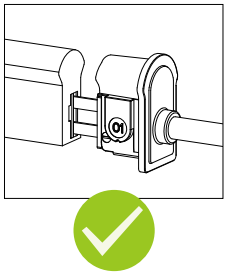
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INSTALLATION FLEX Light - FLEX Round

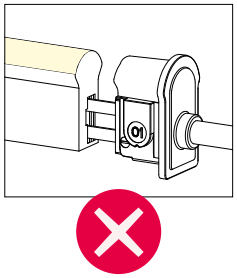
Snap Front Connector

3. Inserting the Feed Connector

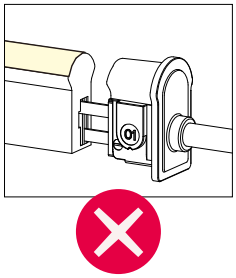




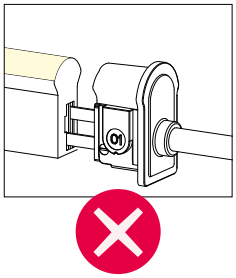
The following operations are prohibited:



Insert into the front side of the PCB



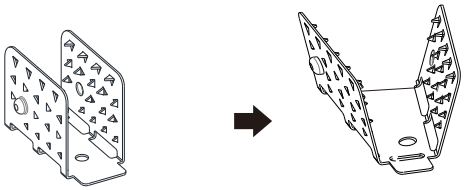
Insert crosswise into the PCB



Insert crosswise into the PCB

---

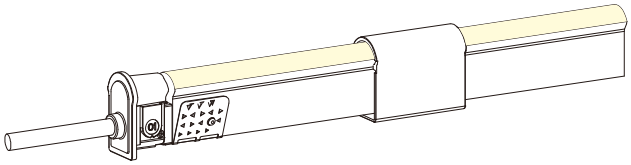
4. Treatment of Anti-Skidding Clip



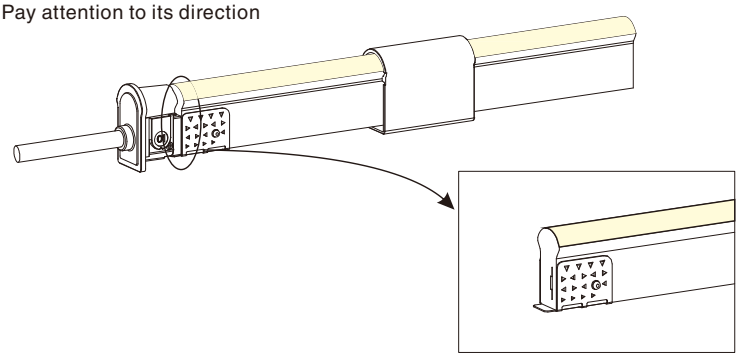
Unfold the anti-skidding clip about 20 degrees on both sides.

---

5. Installation of Anti-Skidding Clip



Place the anti-skidding clip onto the assembly end of the light.
Pay attention to its direction



Fit the anti-skidding clip to the end of so that it wraps tightly and its brim is aligned with the cut edge on both sides.

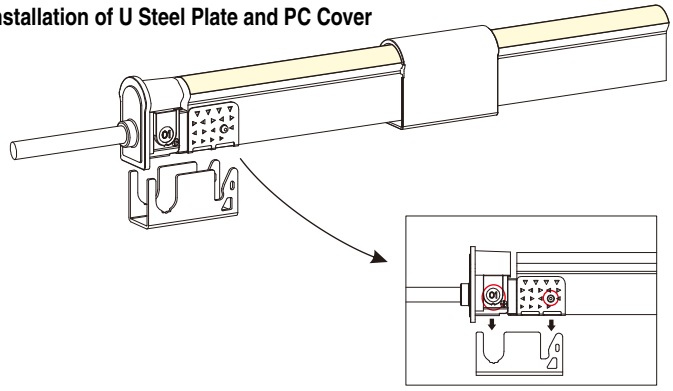
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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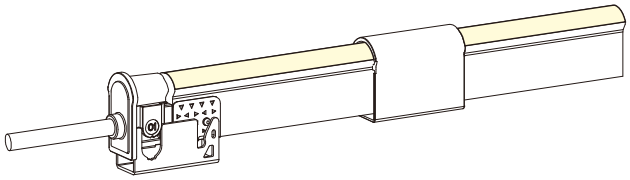
INSTALLATION FLEX Light - FLEX Round

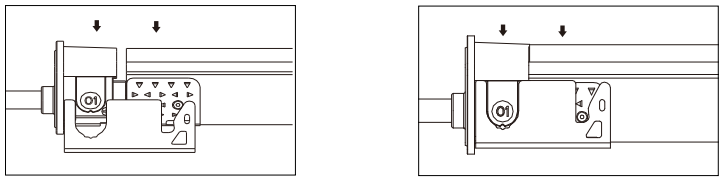
Snap Front Connector

6. Installation of U Steel Plate and PC Cover

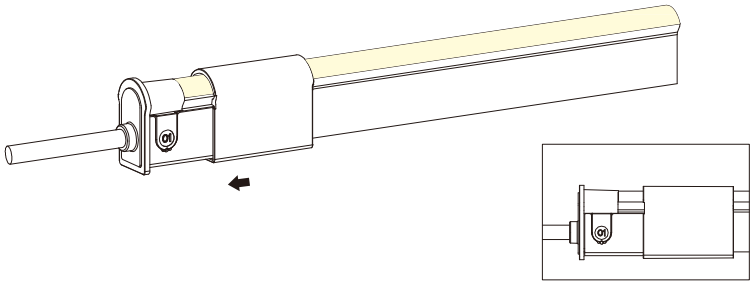


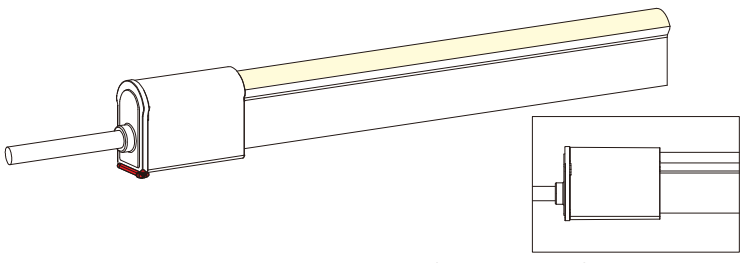
Align the feed connector and anti-skidding clip with the U steel plate.





Press the feed connector and light downwards at the same time till bottom.





Slide back the PC cover till it snaps in the feed connector.

Please energize the light to check its functionality and do waterproof reliablity testing after connector assembly.

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

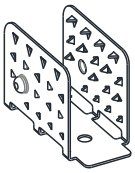
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INSTALLATION FLEX Light - FLEX Round

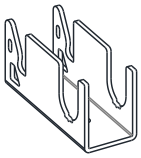
Snap End Cap

Please ignore these steps if the front connector has been assembled before delivery.

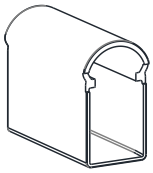
Components



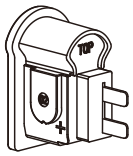
Anti-skidding Clip (1pc)



U Steel Plate (1pc)

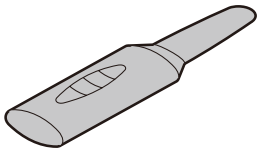


PC Cover (1pc)

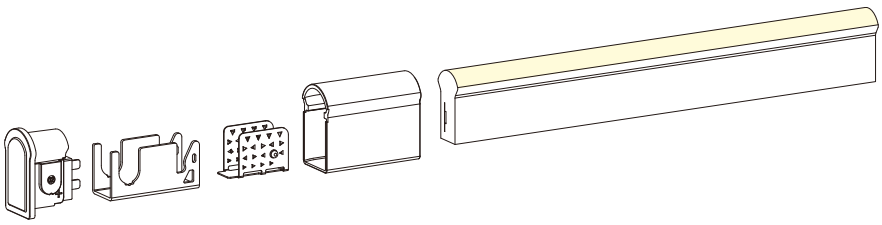


Tail Plug (1pc)
[Contain Silicone Gasket (1pc)]

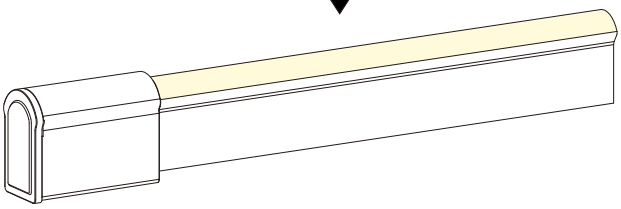
Tools



Inducer



Explosive View



Finished Assembly View

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

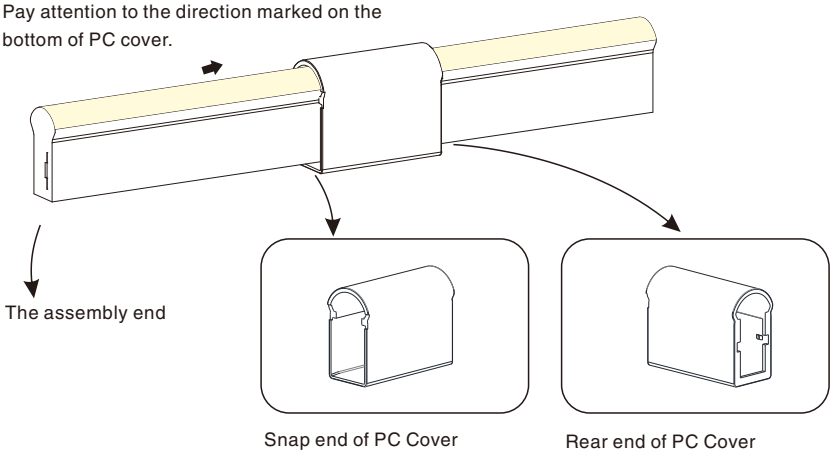
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INSTALLATION FLEX Light - FLEX Round

Snap End Cap

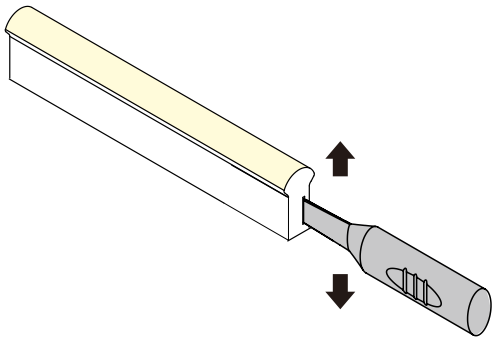
1. Placing PC Cover

Pay attention to the direction marked on the bottom of PC cover.

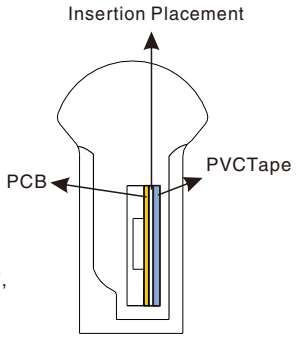


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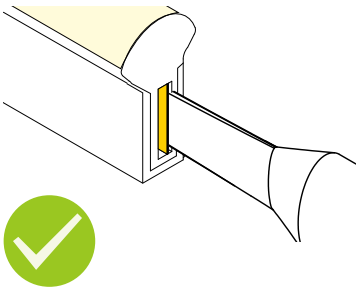
2. Inducing a Cavity for Tail Plug



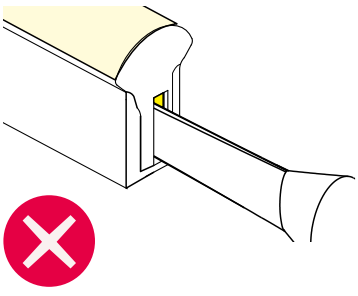
NEVER insert into the front side (LED side) of the PCB



Insert the inducer to the backside of PCB around 0.39”-0.47”, move the inducer up and down 3-5 times gently to create a small cavity.



Insert the inducer into the backside of PCB



It will damage the light if inserted into front side of PCB

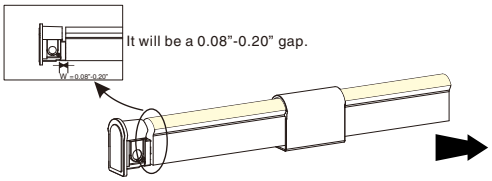
NOTES: • Field modifications must comply with Q-Tran’s installation methods otherwise warranty is null and void

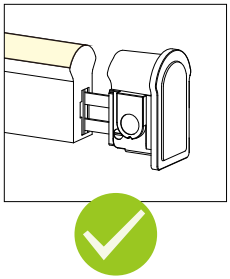
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INSTALLATION FLEX Light - FLEX Round

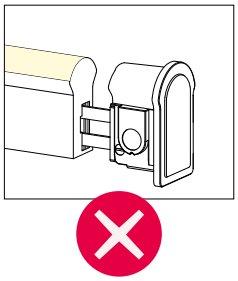
Snap End Cap

3. Inserting the Feed Connector

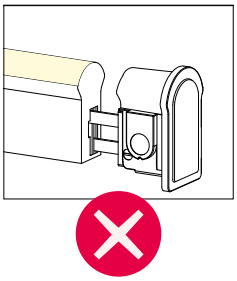




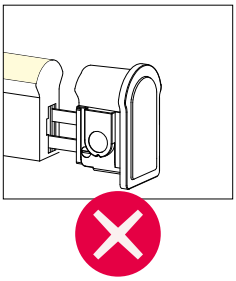
The following operations are prohibited:



Insert into the front side of the PCB



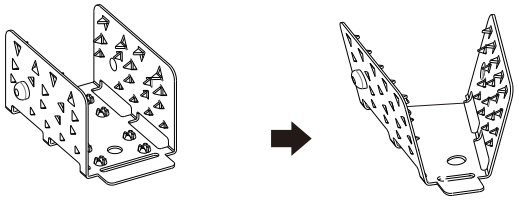
Insert crosswise into the PCB



Insert crosswise into the PCB

---

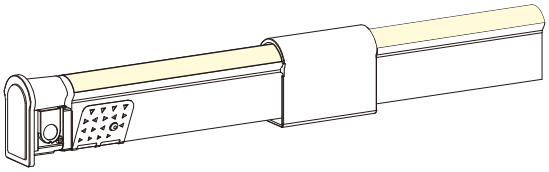
4. Treatment of Anti-Skidding Clip



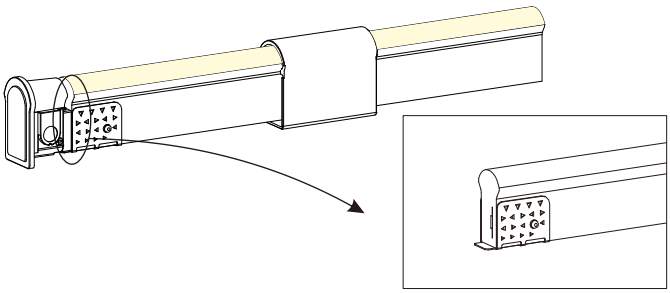
Unfold the anti-skidding clip about 20 degrees on both sides.

---

5. Installation of Anti-Skidding Clip



Place the anti-skidding clip onto the assembly end of the light.
Pay attention to its direction



Fit the anti-skidding clip to the end of so that it wraps tightly and its brim is aligned with the cut edge on both sides.

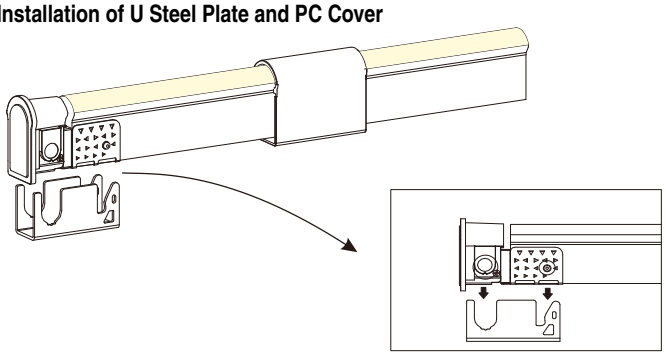
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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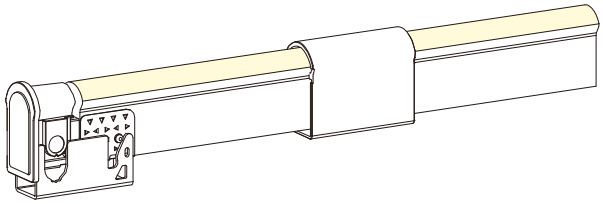
INSTALLATION FLEX Light - FLEX Round

Snap End Cap

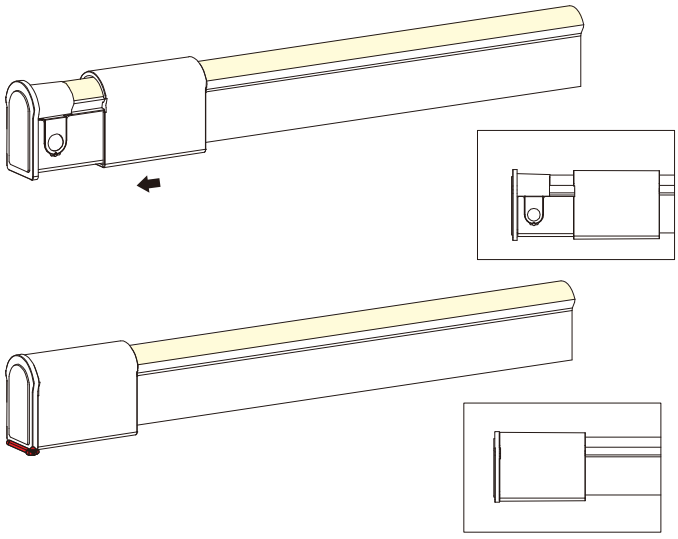
6. Installation of U Steel Plate and PC Cover



Align the tail plug and anti-skidding clip with the U steel plate.



Press the tail plug and light downwards at the same time until bottom.



Slide back the PC cover until it snaps in the tail plug.

Please energize the light to check its functionality and do waterproof reliablity testing after connector assembly.

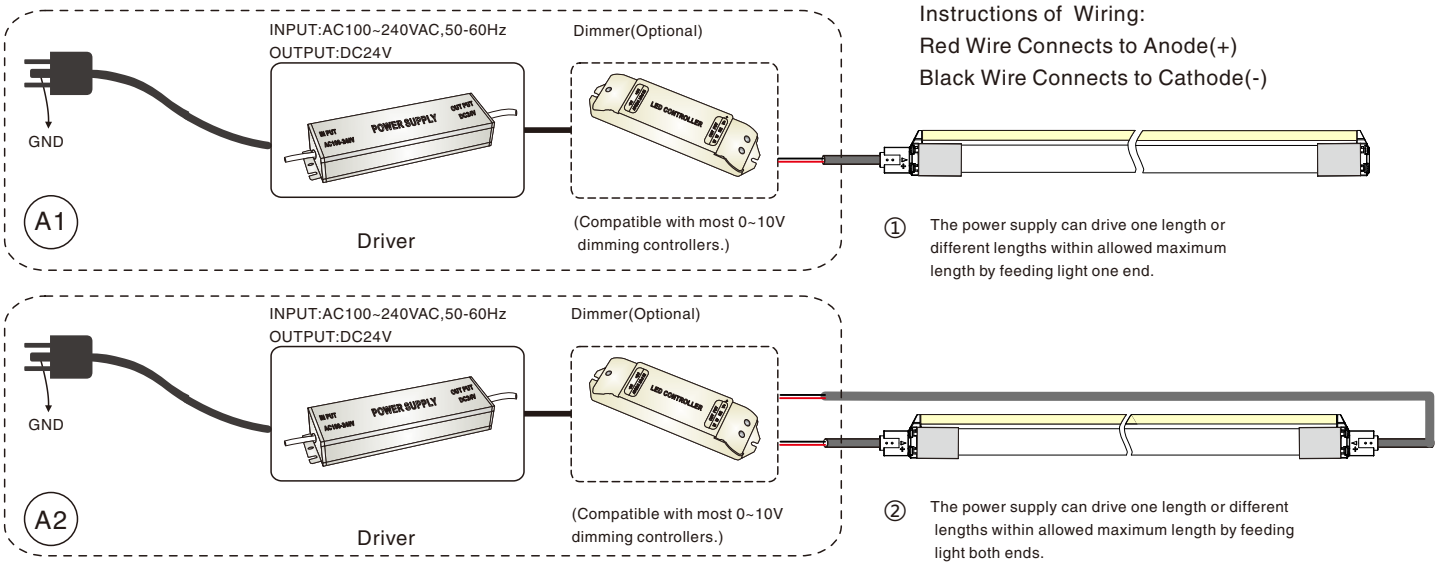
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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INSTALLATION FLEX Light - FLEX Round

Light Wiring - Static White, Static Color

NOTE:
1. This fixture must be used in conjunction with DC24V power supply.
2. Always observe proper polarity.
3. Ensure to add 20% buffer when sizing power supply.
4. Ensure that the power cable carried current is no greater than 80% of its capacity.
5. To minimize the voltage drop and keep light consistency, position power supply nearest to the power feed end of the fixture and keep the power line as short as possible.



Max.Continuous Length	Single End Feed Red/Amber	Single End Feed Green/Blue/White	Double Ends Feed Red/Amber	Double Ends Feed Green/Blue/White
	49.21’	32.81’	98.43’	65.62’

NOTES: • Field modifications must comply with Q-Tran’s installation methods otherwise warranty is null and void

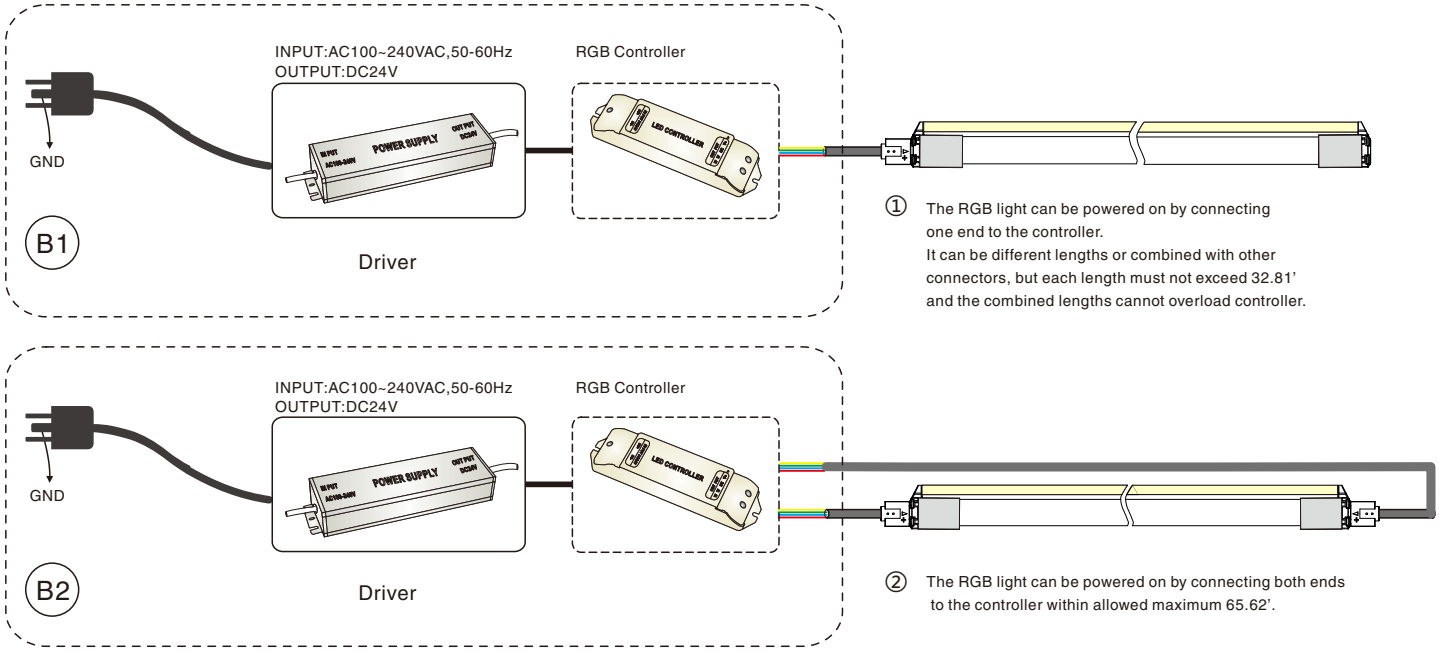
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INSTALLATION FLEX Light - FLEX Round

Light Wiring - RGB

NOTE:
1. This fixture must be used in conjunction with DC24V power supply.
2. Always observe proper polarity.
3. Ensure to add 20% buffer when sizing power supply.
4. Ensure that the power cable carried current is no greater than 80% of its capacity.
5. To minimize the voltage drop and keep light consistency, position power supply nearest to the power feed end of the fixture and keep the power line as short as possible.
6. Compatible with RGB controller and DMX control.

Instructions of RGB Light Wiring:
Yellow Wire Connects to Anode(+).
Red Wire Connects to the“R”Terminal, Cathode(-).
Green Wire Connects to the "G”Terminal, Cathode(-).
Blue Wire Connects to the“B”Terminal, Cathode(-).



Max.Continuous Length	Single End Feed	Double Ends Feed
	32.81’	65.62’

NOTES: • Field modifications must comply with Q-Tran’s installation methods otherwise warranty is null and void

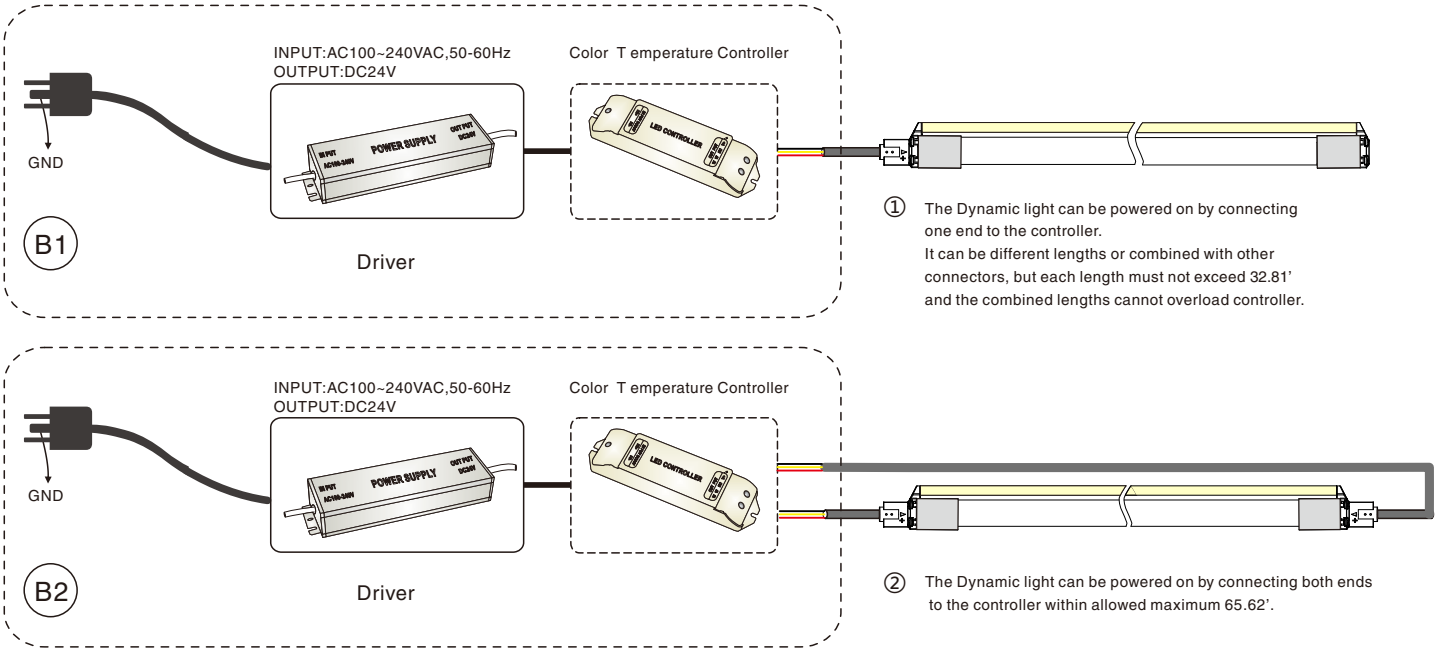
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INSTALLATION FLEX Light - FLEX Round

Light Wiring - Dynamic White, RGBW

NOTE:
1. This fixture must be used in conjunction with DC24V power supply.
2. Always observe proper polarity.
3. Ensure to add 20% buffer when sizing power supply.
4. Ensure that the power cable carried current is no greater than 80% of its capacity.
5. To minimize the voltage drop and keep light consistency, position power supply nearest to the power feed end of the fixture and keep the power line as short as possible.
6. Compatible with RGB controller and DMX control.

Instructions of Dynamic Light Wiring:
Red Wire Connects to Anode(+).
Yellow Wire Connects to Low Color Temperature Connection, Cathode(-).
Black Wire Connects to High Color Temperature Connection, Cathode(-).



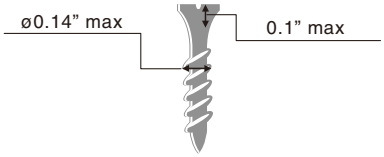
Max.Continuous Length	Single End Feed	Double Ends Feed
	32.81'	65.62'

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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INSTALLATION FLEX Light - FLEX Round

Extrusions



Screw



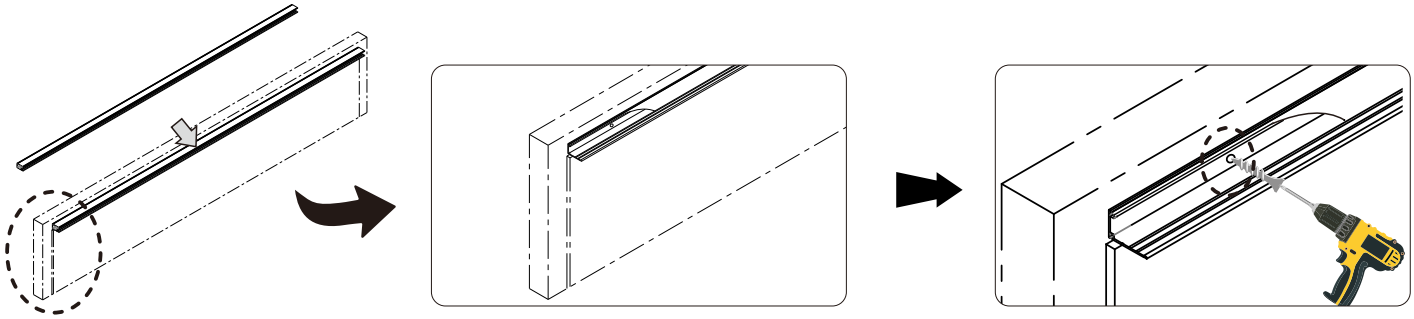
Screwdriver

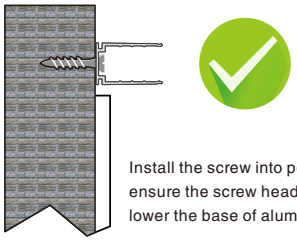
or



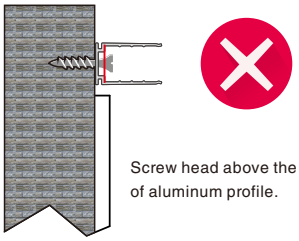
Electric Screwdriver

Aluminum Profile - Non-locking

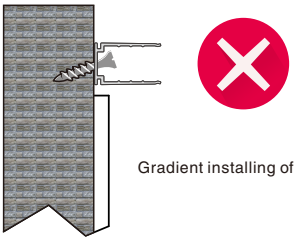




Install the screw into position and ensure the screw head is flush or lower the base of aluminum profile.



Screw head above the base of aluminum profile.



Gradient installing of screw.

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

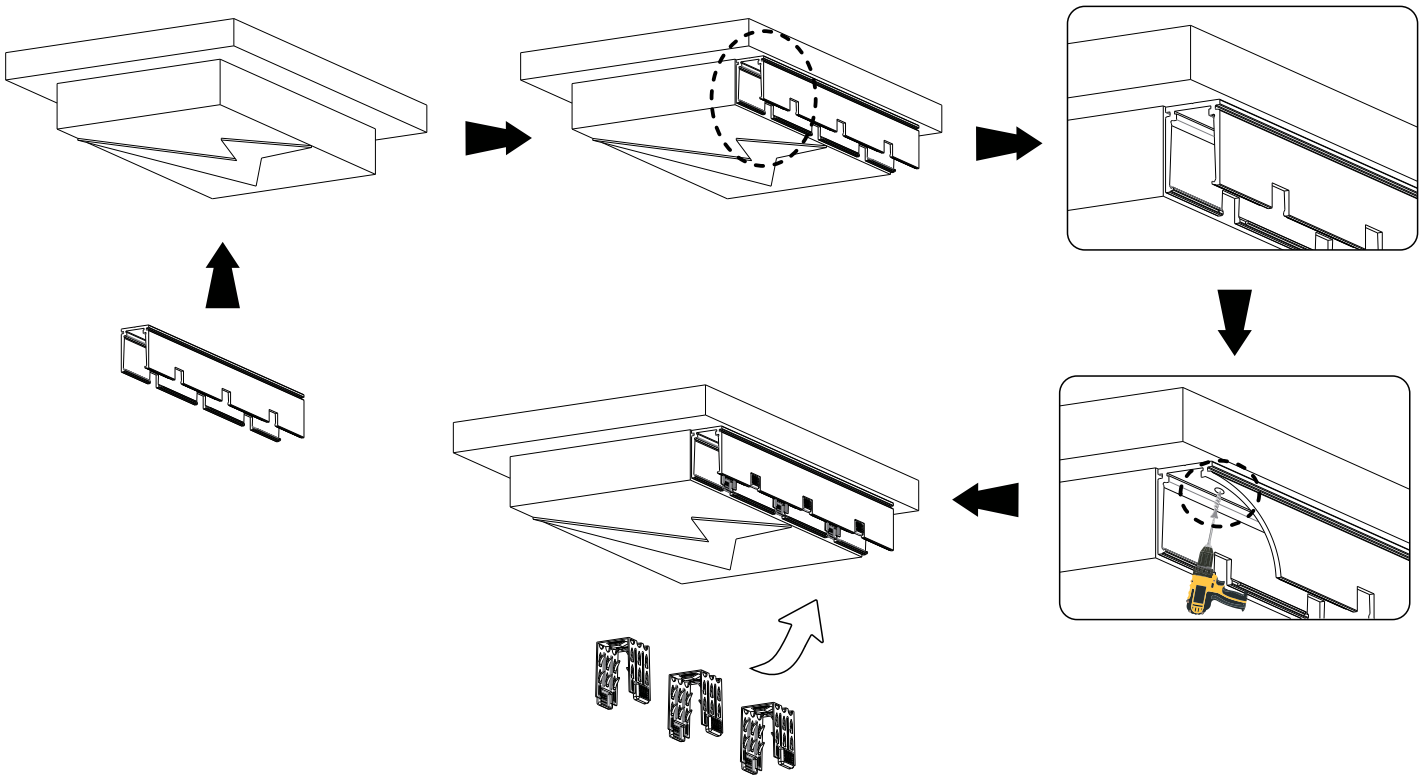
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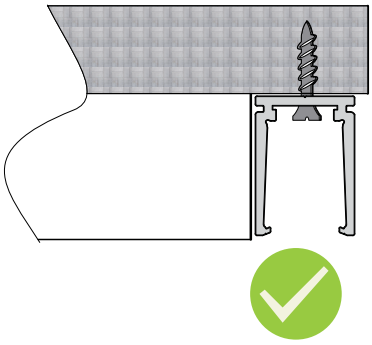
Specification subject to change. Rev-03-08-21

INSTALLATION FLEX Light - FLEX Round

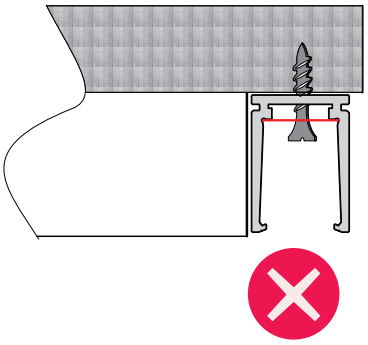
Extrusions

Aluminum Profile - Self-locking

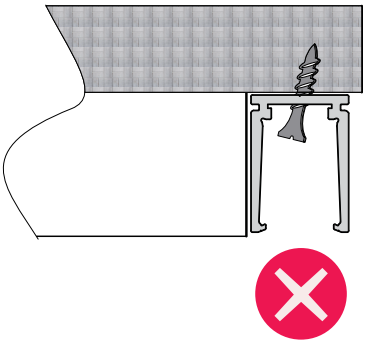




Install the screw into position and ensure the screw head is flush or lower the base of aluminum profile.



Screw head above to the base of aluminum profile.



Gradient installing of screw.

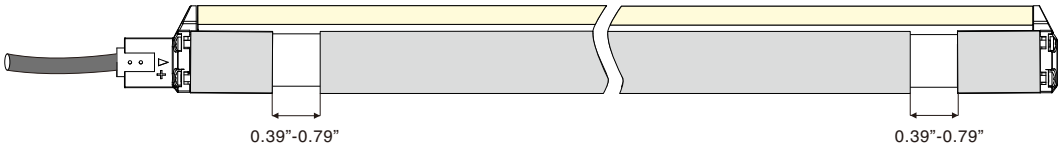
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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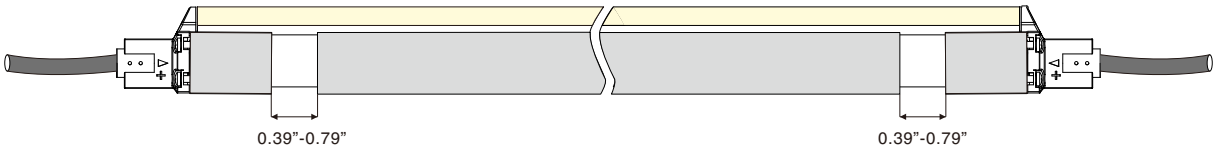
INSTALLATION FLEX Light - FLEX Round

Extrusions - Requirements and Cautions for Installation

For fixtures with Screw Connectors (Clasp Connector and Sleeve Connector also refer to the following cautions)

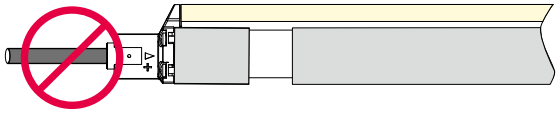


Ensure the supply cord is not subject to mechanical stress.
Keep 0.39”-0.79” distance between the end of aluminum profile and that of aluminum mounting piece.



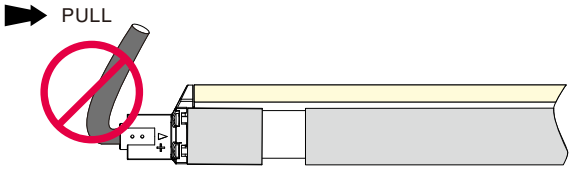
Mechanical stress on front connector cable shall be avoided.

PULL

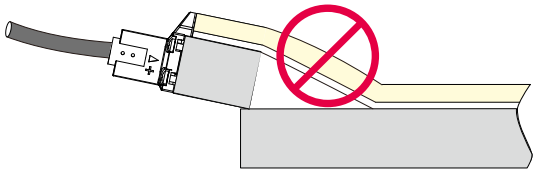


It is forbidden to curl or pull the front connector cable with excessive force.

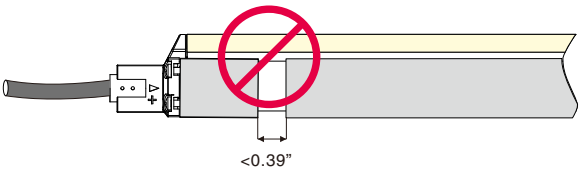
PULL

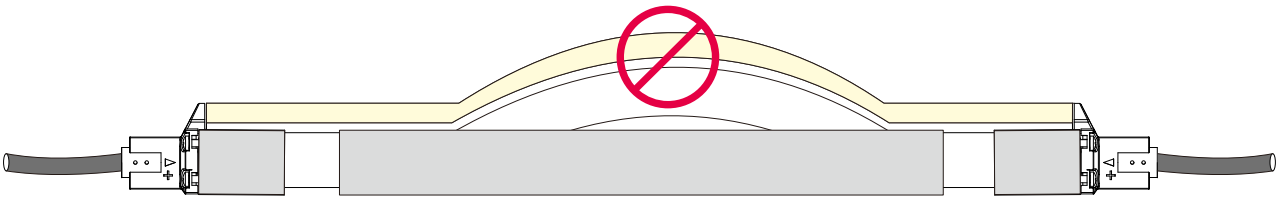


It is forbidden to let any connector aluminum mounting piece on the aluminum profile and make light deformation.



The space between aluminum profile and aluminum mounting piece less than 0.39” is forbidden.





Install light in one direction. Don't let it choke in middle.

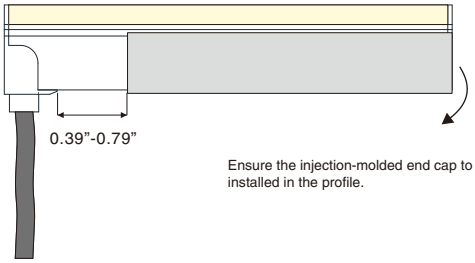
NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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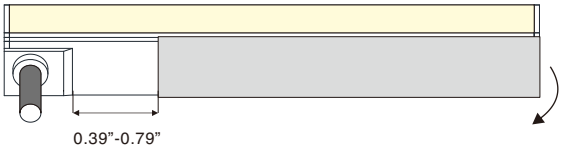
INSTALLATION FLEX Light - FLEX Round

Extrusions - Requirements and Cautions for Installation

For fixtures with Injection-Molded Connectors

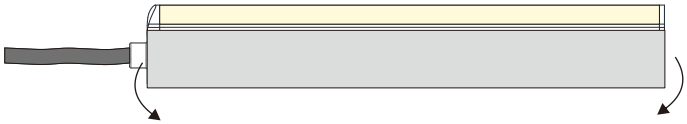


Ensure the injection-molded end cap to be installed in the profile.



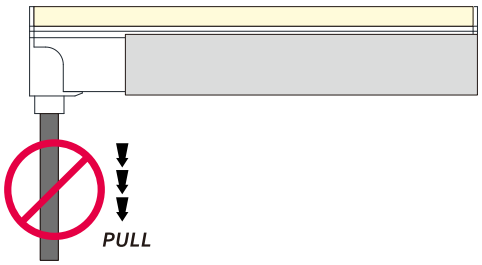
Ensure the injection-molded end cap to be installed in the profile.

Ensure the power cable is not subject to mechanical stress at the beginning.

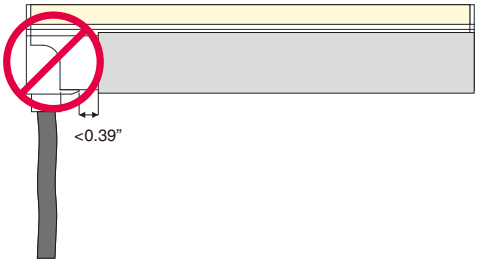


Ensure the injection-molded front connector (top end) and end cap to be installed in the profile.

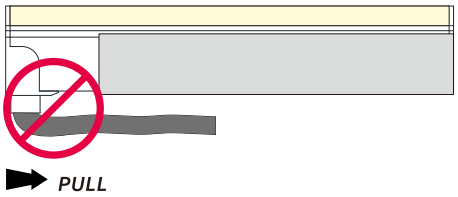
Mechanical stress on front connector cable shall be avoided.



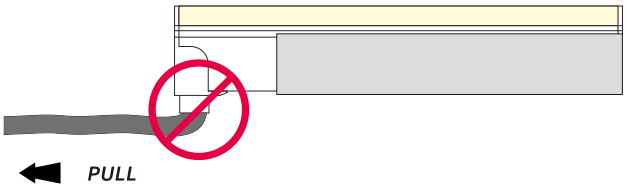
The space between connector and mounting profile less than 0.39” is forbidden.



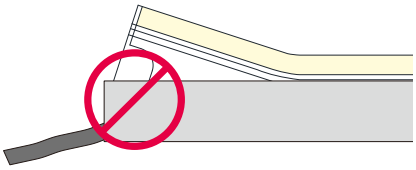
It is forbidden to curl or pull the front connector cable with excessive force.

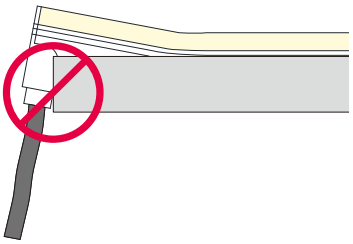


It is forbidden to curl or pull the front connector cable with excessive force.



It is forbidden to force the injection-molded end to fit into the mounting profile and make light deformation.





NOTES: • Field modifications must comply with Q-Tran’s installation methods otherwise warranty is null and void

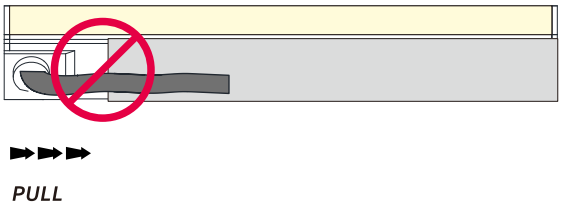
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INSTALLATION FLEX Light - FLEX Round

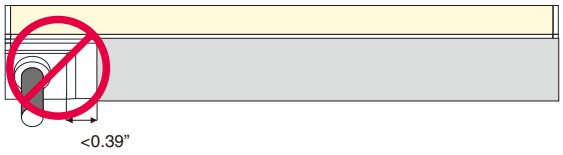
Extrusions - Requirements and Cautions for Installation

For fixtures with Injection-Molded Connectors

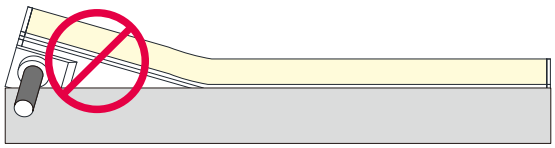
It is forbidden to curl or pull the front connector cable with excessive force.



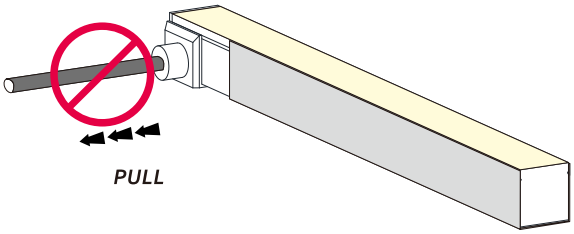
The space between connector and mounting profile less than 10mm is forbidden.



It is forbidden to force the injection-moulded end to fit into the mounting profile and make light deformation.

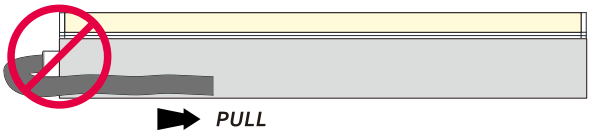


Mechanical stress on front connector cable shall be avoided.

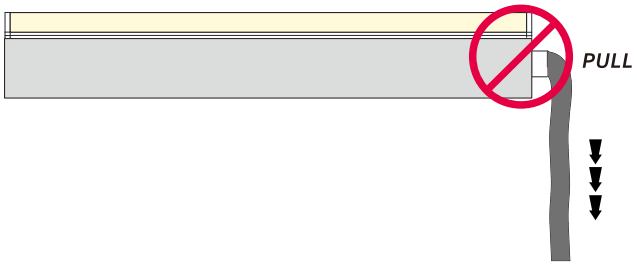


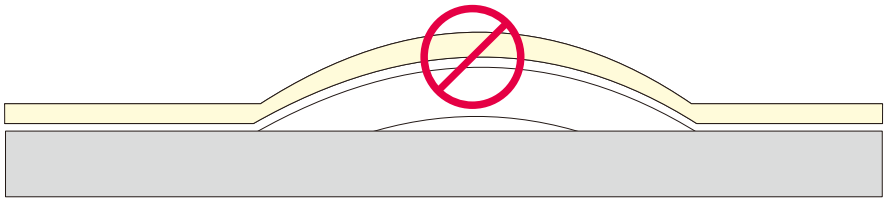


It is forbidden to curl or pull the front connector cable with excessive force.



Mechanical stress on front connector cable shall be avoided.





Install the light in one direction, no matter what kind of connector used . Don't let it choke in middle.

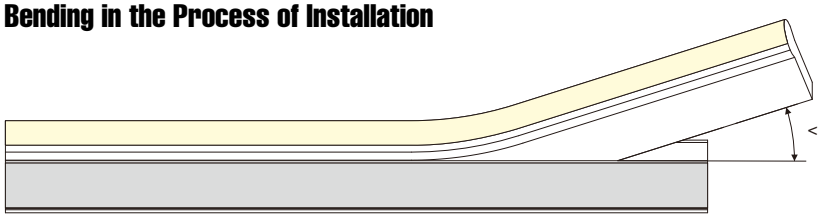


NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

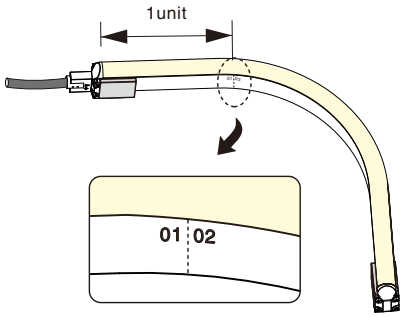
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INSTALLATION FLEX Light - FLEX Round

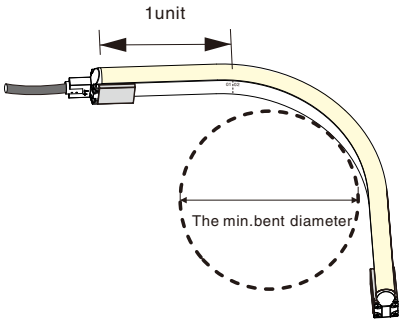
Bending in the Process of Installation



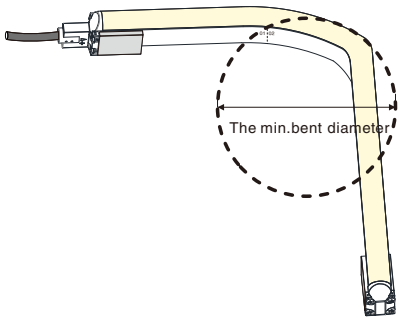
Installing angle should be less than 15 degree when pressing the light to the aluminum profile by hand.



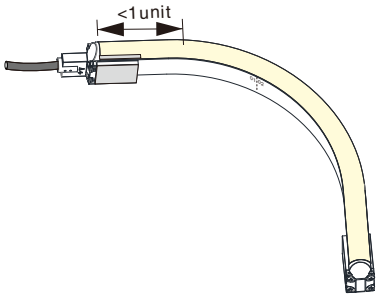
Please avoid bending at the first unit of the light.



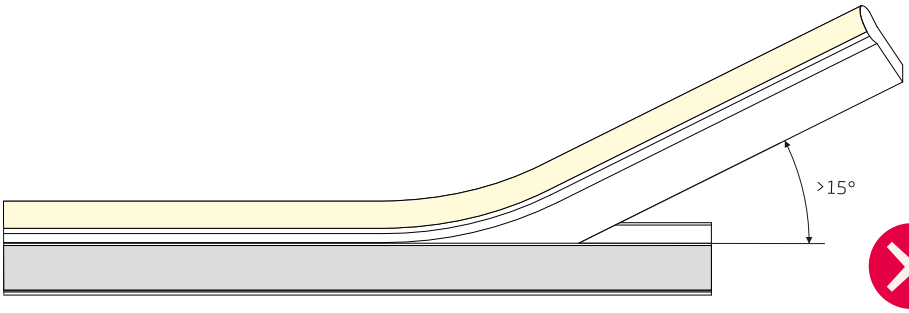
The light can bend in defined min. bending diameter or larger.



The circuit board and LEDs could be damaged if bending diameter is tighter than defined min. bending diameter.



Do not bend against the first or last unit of the light, otherwise it will lead to failure of connector waterproof.



The circuit board could be damaged if installing angle larger than 15 degree.

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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INSTALLATION FLEX Light - FLEX Round

Troubleshooting

The whole fixture doesn't work.
Check power supply is plugged in, switched on and receiving power.
Check all light, dimmer or controller connections connection from the power supply to the fixture.
Check polarity of all wire connections.
Make sure power supply output voltage is 24V DC.
Check front connector is inserted into backside of PCB and properly assembled.

Light emitting appear dim or dull at one end.
Check whether the output voltage of the power supply is lower than that of light.
Adjust the dimming level to the maximum.
Power from both ends or shorten lighting length to prevent voltage drop.

Light emitting appear excessive brightness.
Check whether the output voltage of power supply is higher than that of light.
Check whether the power grid is stable.

If the first segment doesn't work.
Cut not in indicated cutting line or not in a straight line. Cut out and remove the first segment.
Damage caused to the first LED when inserting the front connector to the right side of PCB. Cut out the first segment and properly assemble connector.
Water ingress due to poor connector assembly could cause a short circuit of first segment. Replace length with a new one.
External impact damage inside LEDs. Only use your hands to install fixture into aluminum profile.

Fixture is flashing on and off.
Check the power supply to ensure it supports the length you are using. Select the appropriate strength or install an additional power supply to support your installation.
Check power supply output voltage is stable.
Check front connector is properly installed with good contact with the copper PCB.
Check proper controller is connected for light working.

NOTES: • Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

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FLEX-ROUND-RGBW

FLEX Light Color Data

FLR-RGBW-S-RGBW-R-80-4.5

0 K

CRI: 0.0

CRI R9: 0.0

TM30 Rf: 0.0

TM30 Rg: 0.0

CQS: 0.0

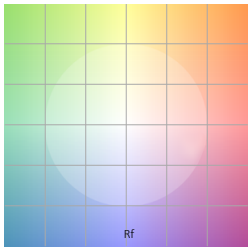
X: 0.613

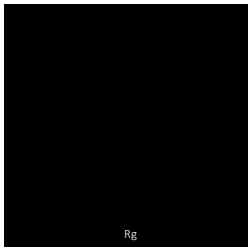
Y: 0.290

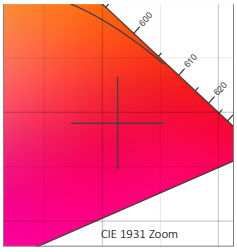
U: 0.467

V: 0.331

Δuv: n/a







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

FLR-RGBW-S-RGBW-G-80-4.5

0 K

CRI: 0.0

CRI R9: 0.0

TM30 Rf: 0.0

TM30 Rg: 0.0

CQS: 0.0

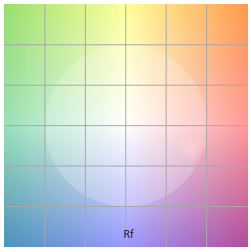
X: 0.167

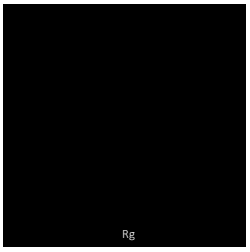
Y: 0.712

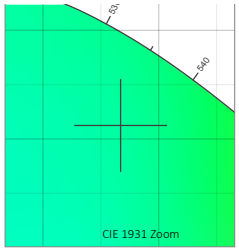
U: 0.060

V: 0.381

Δuv: n/a







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

FLR-RGBW-S-RGBW-B-80-4.5

0 K

CRI: 0.0

CRI R9: 0.0

TM30 Rf: 0.0

TM30 Rg: 0.0

CQS: 0.0

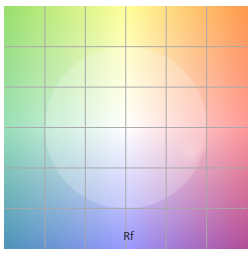
X: 0.150

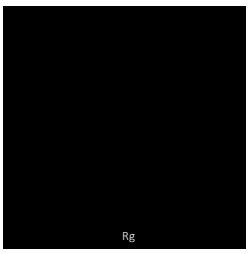
Y: 0.082

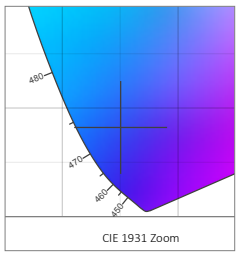
U: 0.163

V: 0.134

Δuv: n/a







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-02-28-24

FLEX-ROUND-RGBW

FLEX Light Color Data

FLR-RGBW-S-RGBW-27-80-4.5

2741 K

CRI: 86.5

CRI R9: 25.0

TM30 Rf: 88.3

TM30 Rg: 96.4

CQS: 85.4

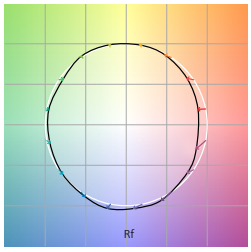
X: 0.451

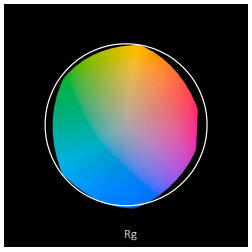
Y: 0.400

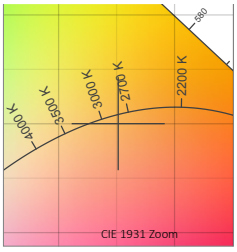
U: 0.262

V: 0.348

Δuv: -0.0032







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
87.7	97.4	92.2	85.2	88.7	95.9	81.7	63.6	25.0	94.1	86.2	86.9	90.7	96.6	80.1
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
80.0	92.9	89.2	85.7	87.4	88.7	87.2	87.0	93.0	93.0	88.8	85.4	84.2	76.7	77.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
83.1	85.2	84.3	93.8	95.4	93.8	90.8	94.6	91.4	89.1	89.9	87.8	85.5	81.4	86.2	79.9

TM30

Hue Bin	R_f	Chroma	Hue
1	83	-9%	1%
2	85	-6%	6%
3	84	-2%	8%
4	94	0%	3%
5	95	1%	2%
6	94	1%	-2%
7	91	-4%	-4%
8	95	-3%	0%
9	91	-3%	4%
10	89	-1%	7%
11	90	2%	7%
12	88	6%	-3%
13	86	3%	-11%
14	81	2%	-16%
15	86	-4%	-7%
16	80	-9%	-12%

FLR-RGBW-S-RGBW-40-80-4.5

4116 K

CRI: 83.2

CRI R9: 13.0

TM30 Rf: 83.5

TM30 Rg: 93.7

CQS: 81.8

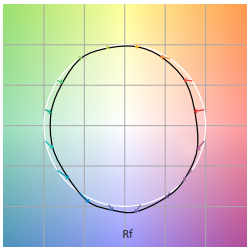
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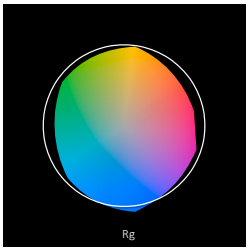
Y: 0.377

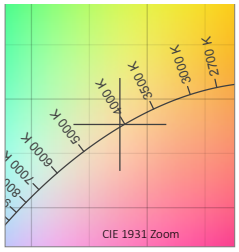
U: 0.223

V: 0.334

Δuv: 0.0012







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.7	90.1	94.8	80.4	80.7	85.1	86.7	66.3	13.0	74.8	78.0	57.4	84.1	97.1	75.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
81.7	97.7	78.8	72.9	77.6	80.0	83.7	88.4	97.3	89.0	84.9	84.1	83.8	73.2	76.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
79.8	83.5	79.8	87.3	89.9	93.7	89.2	87.3	83.5	73.7	76.9	86.4	86.5	87.0	78.2	78.1

TM30

Hue Bin	R_f	Chroma	Hue
1	80	-12%	1%
2	83	-7%	6%
3	80	-4%	10%
4	87	-2%	6%
5	90	-2%	3%
6	94	-1%	-2%
7	89	-7%	-2%
8	87	-7%	2%
9	83	-7%	10%
10	74	-6%	15%
11	77	3%	15%
12	86	5%	5%
13	87	7%	-8%
14	87	2%	-7%
15	78	-2%	-16%
16	78	-6%	-11%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-02-28-24