FLEX-QUBE STATIC WHITE

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 Qube Static White is available in a variety of different color temperatures ranging from 2200K to 5700K and can be specified with Silicone construction.

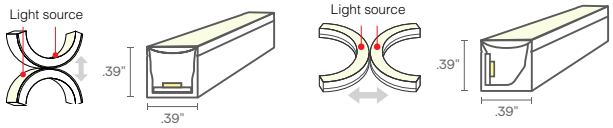
Technical Information

CCT	Lumen/ft		CRI
	VB	HB	
2200K	**	**	**
2700K	80	71	98
3000K	85	75	96
3500K	86	77	96
4000K	92	81	93
5700K	**	**	**

Housing Color

White

Dimensions



VB: Vertical Bending
Min.3.94" bending diameter

HB: Horizontal Bending
Min.3.94" bending diameter

Part Number Builder

Product	Series	CCT	Bend Direction	CRI	Watts/ft	Connector In	Connector In Orientation	Connector In Wire Length	Connector Out	Connector Out Orientation	Connector Out Wire Length	Illuminated Length (in)
FLQ-SW	S			90	1.4							
FLQ-SW	S	22 - 2200K 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 57 - 5700K	VB	90	1.4	IM	FC BC SCL SCR MT* JC*	1' 3' 10'	IM	FC BC SCL SCR EC MT JC	1' 3' 10' N/A	3.28" increments
			HB			SW	FC		SW	FC EC		

FLQ-SW: FLEX Qube Static White. Voltage: 24 VDC

S: Silicone

VB: Vertical Bend

HB: Horizontal Bend

IM: Injected-Molded

SW: Swivel

Nominal max length:
IM: 49'
SW: 32'

- Product length = illuminated length + connector length
- For factory assembled connector information, see following pages
- For DIY 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

- 1 year warranty on DIY connectors
- 5 year warranty on silicone
- Impact rating of IK08
- Ambient Working Temperature: -40°F to 149°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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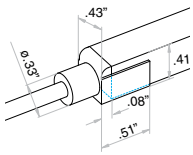
FLEX-QUBE STATIC WHITE

FLEX LIGHT

Injected Molded Connectors - IP67

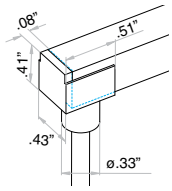
INJECTED-MOLDED CONNECTOR - IP68 | SILICONE

IM-FC



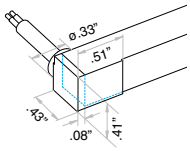
Front

IM-BC



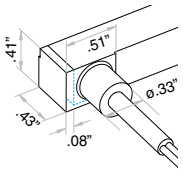
Bottom

IM-SCL



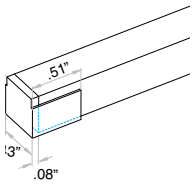
Side-Left

IM-SCR



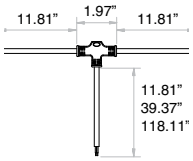
Side-Right

IM-EC



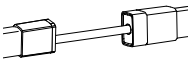
End cap

IM-MT



Middle T-feed

IM-JC



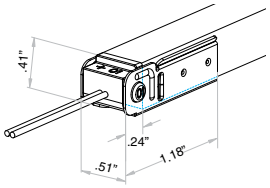
Jumper

DIY Connectors - IP20

NOTE: When specifying non-injected molded connectors, connectors will be sent separately from fixture to be applied in the field.

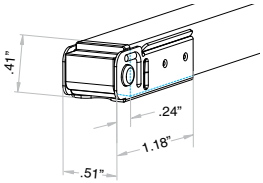
SWIVEL CONNECTOR - IP20 | SILICONE

SW-FC



Front

SW-EC



End Cap

Compatible Power Supplies

See website for additional power supply options

QZ



iQ-PH



QTM-DC+CAP



QTM-eLED



Q6M-DC+CAP



QOM-eLED



QOM-DC+CAP



Q-SET-eLED



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FLEX-QUBE STATIC WHITE

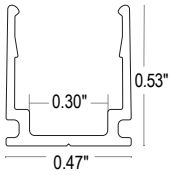
FLEX LIGHT

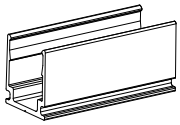
Compatible Extrusions and Clips

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

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



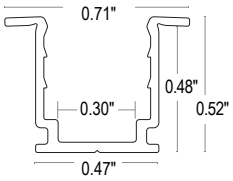


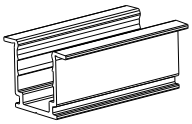


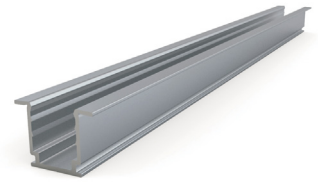


FLQ-NONL-FL: Non self-locking flanged aluminum profile
Finish: Satin
Available lengths: 1.5", 19.75", 39.5", 79"



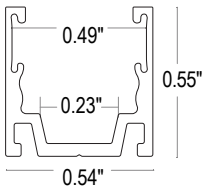


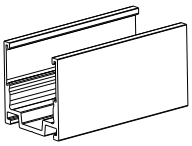




FLQ-SELF-SR: Self-locking serrated aluminum profile
Finish: Satin
Available lengths: 1.5", 19.75", 39.5", 79"



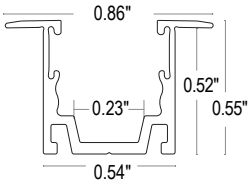


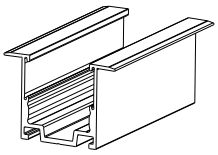




FLQ-SELF-FL: Self-locking flanged serrated aluminum profile
Finish: Satin
Available lengths: 1.5", 19.75", 39.5", 79"



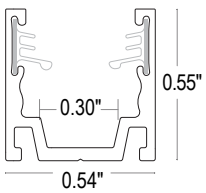


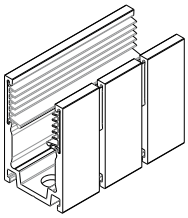




FLQ-SELF-BD: Self-locking bendable serrated aluminum profile
Finish: Satin
Available lengths: 19.75", 39.5"
Note: Only horizontal bending is available









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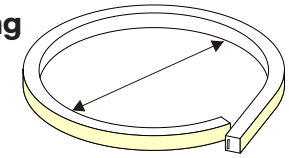
FLEX LIGHT - FLEX QUBE

Installation Instructions

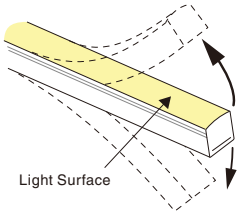
Cautions

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

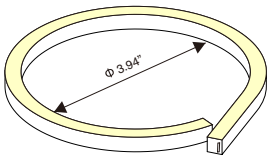


Do not bend smaller than allowed minimum bend diameter 3.94".

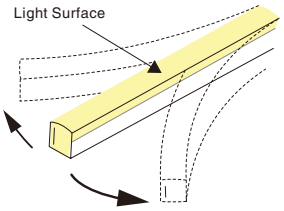


(VB)Vertical Bending

Bend the light according to above illustration (same printing mark on the side of light)



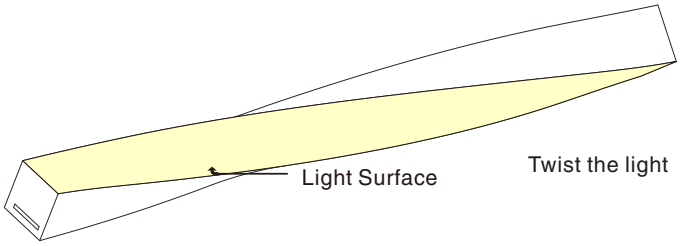
Do not bend smaller than allowed minimum bend diameter 3.94".



(HB)Horizontal Bending

Bend the light according to above illustration (same printing mark on the side of light)

Wrong Approaches



WARNING: The above wrong approaches will damage the light.

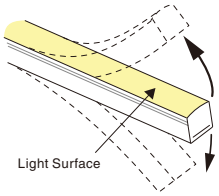
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FLEX LIGHT - FLEX QUBE

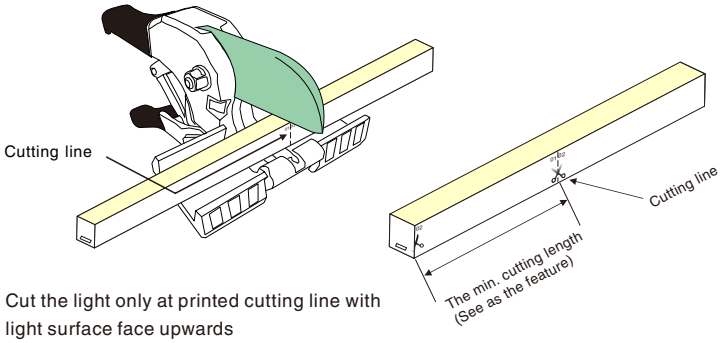
Installation Instructions

Instructions for Light Cutting

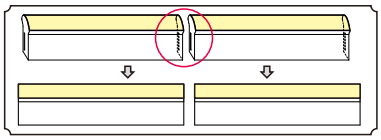
1. Place the light horizontally when cutting it.
2. Use only factory-recommended cutter.
3. Cut the light according to the following instructions. Incorrect operation will damage the light.



(VB)Vertical Bending

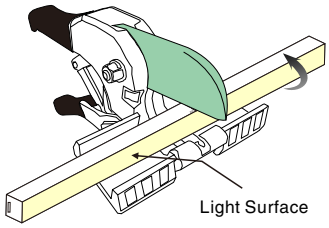


Cut the light only at printed cutting line with light surface face upwards

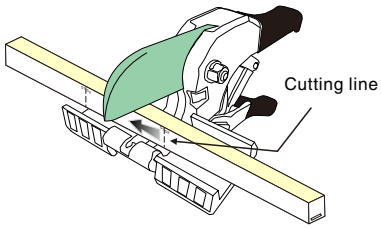


The cutting surface must be flush and smooth.

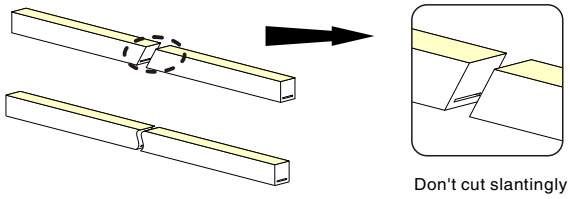
Cautions



Lighting surface must be upwards



Cutting can only be made at the printed cutting line



Don't cut slantingly

WARNING: The above mishandling will damage the light.

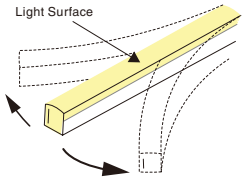
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FLEX LIGHT - FLEX QUBE

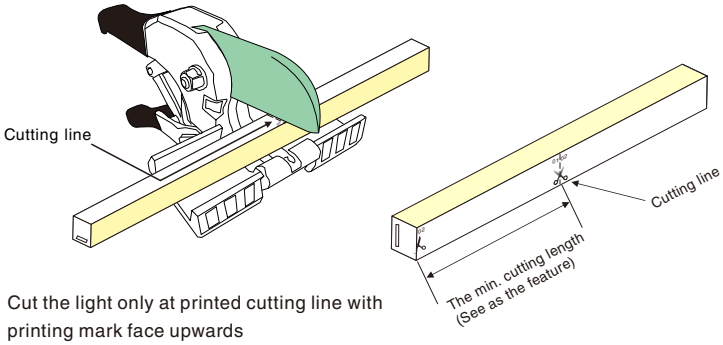
Installation Instructions

Instructions for Light Cutting

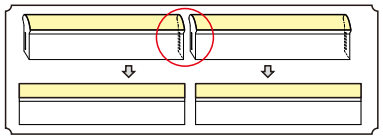
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3. Cut the light according to the following instructions. Incorrect operation will damage the light.



(HB)Horizontal Bending

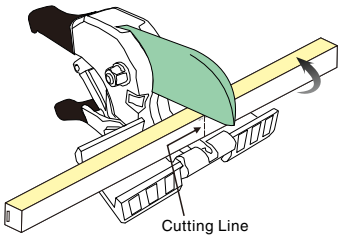


Cut the light only at printed cutting line with printing mark face upwards

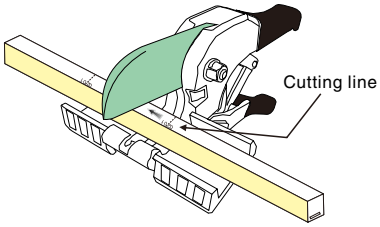


The cutting surface must be flush and smooth.

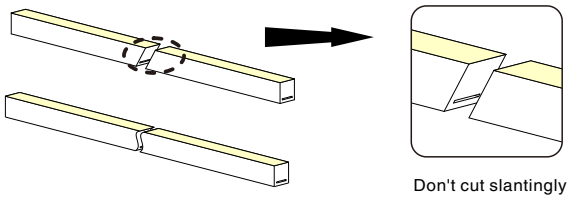
Cautions



Printing mark should be faced upwards



Cutting can only be made at the printed cutting line



Don't cut slantingly

WARNING: The above mishandling will damage the light.

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Specification subject to change. Rev-02-27-24

FLEX LIGHT - FLEX QUBE

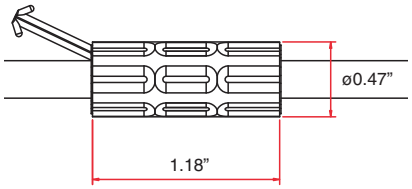
Installation Instructions

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".

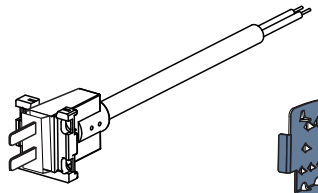


Screw Front Connector

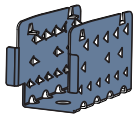
Please ignore these steps if the front connector has been assembled before delivery.
NOTE:
1. Never wet the assembly units or assemble with wet hands.
2. Please use the tools correctly.
3. Please pay attention to personal security when using tools.

Components

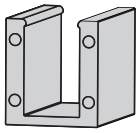
NOTE:
The light ends are marked with either an 01 or an 02. Always make sure to use an identically labeled connector for the appropriate direction.



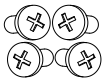
Feed Connector (1pc)
[Contain Silicone Gasket (1pc)]



Anti-skidding Clip (1pc)

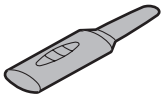


Aluminum Mounting Piece (1pc)



Screws (4pcs)

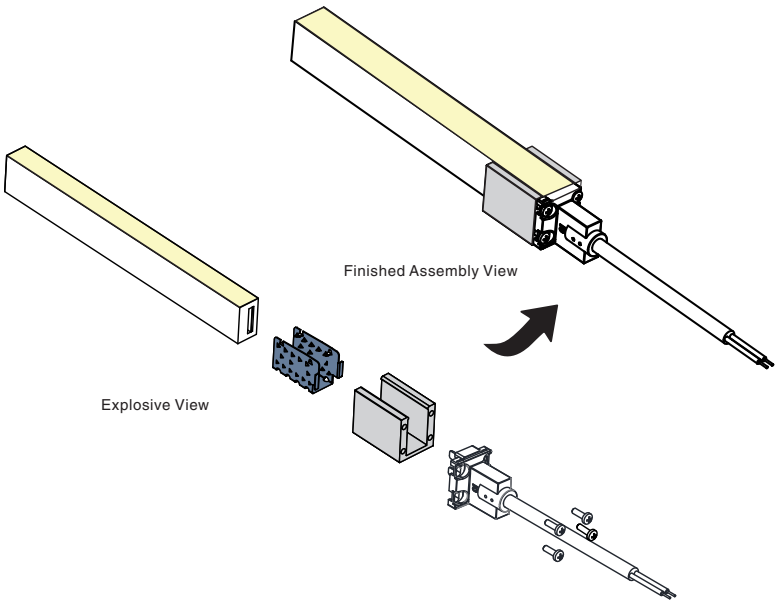
Tools



Inducer



Screwdriver



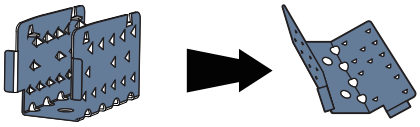
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FLEX LIGHT - FLEX QUBE

Installation Instructions

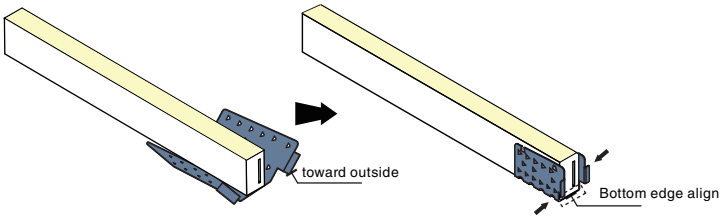
Screw Front Connector

1. Treatment of Anti-Skidding Clip



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

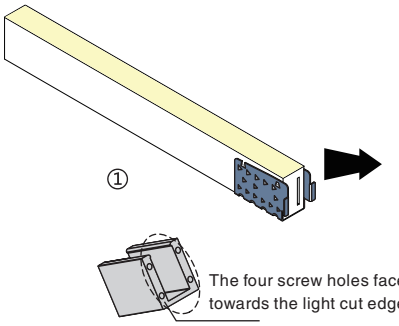
2. Installation of Anti-Skidding Clip
Prepare the light, and the end surface should be flush and smooth.

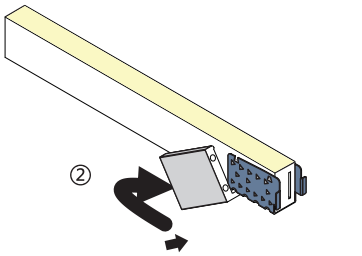


Place the anti-skidding clip onto the end of the light.

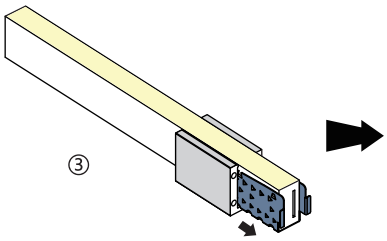
Fit the anti-skidding clip to the end of the light so that it wraps tightly and its brim is aligned with the bottom cut edge of the light.

3. Installation of Aluminum Mount Piece

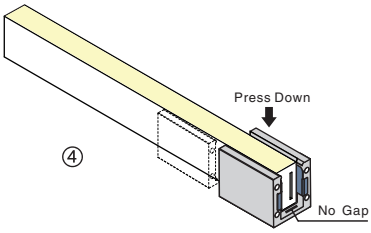




Place the mounting piece at an angle and rotate upwards until it parallels to light surface.



Pinch the anti-skidding clip edges and slide the mounting piece onto the anti-skidding clip straightly until end.



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

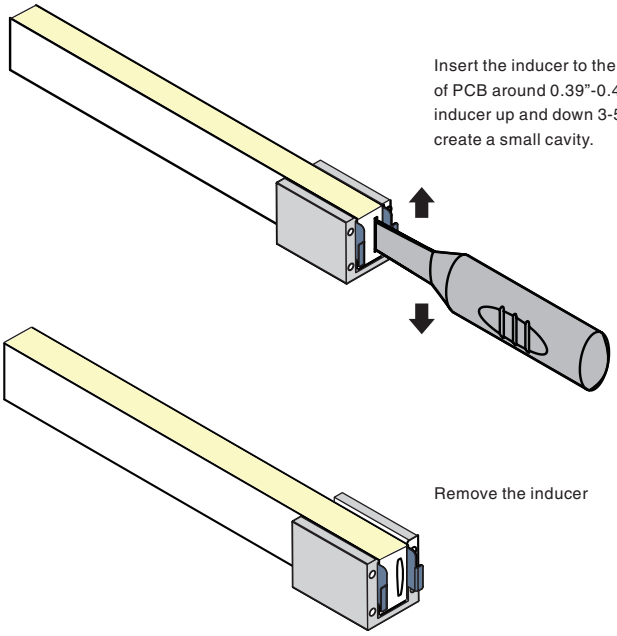
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FLEX LIGHT - FLEX QUBE

Installation Instructions

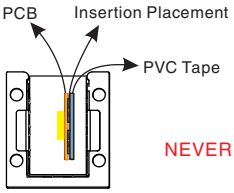
Screw Front Connector

4. Inducing a Cavity for Feed Connector

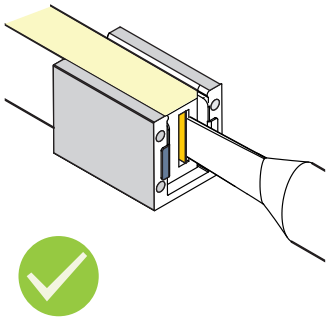


Insert the inducer to the backside of PCB around 0.39”-0.47”, move the inducer up and down 3-5 times to create a small cavity.

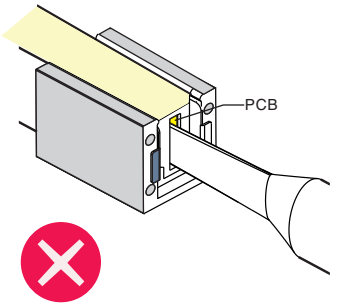
Remove the inducer



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

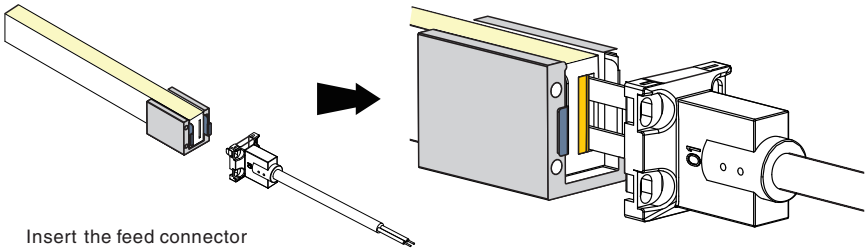


Insert the inducer into the backside of PCB



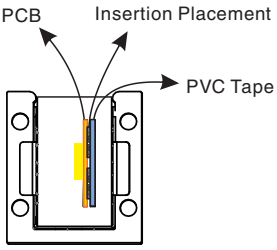
It will damage the light if inserted into front side of PCB.

5. Inserting the Feed Connector



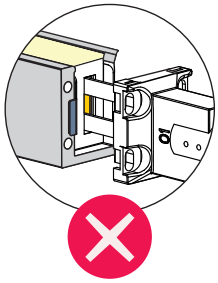
Insert the feed connector pins into the cavity that you created with the inducer (backside of PCB).

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

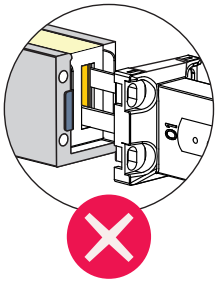


Correct Operation:
The pins must be inserted into the BACKSIDE of the PCB.

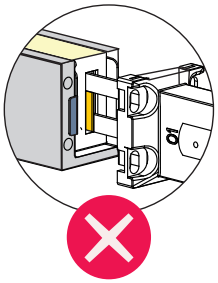
These operations are prohibited:



Insert into the front side of the PCB



Insert crosswise into the PCB



Insert crosswise into the PCB

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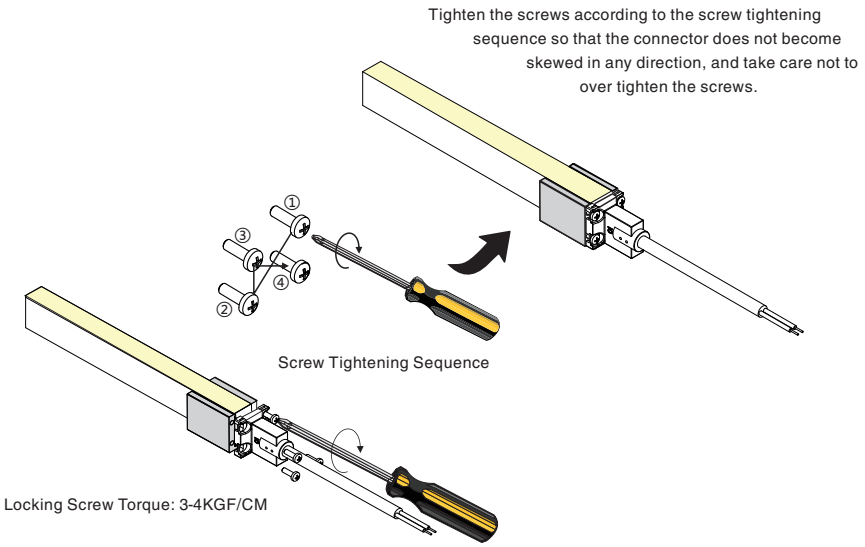
FLEX LIGHT - FLEX QUBE

Installation Instructions

Screw Front Connector

6. Screws for Fixation for Front Connector

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



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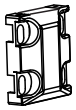
FLEX LIGHT - FLEX QUBE

Installation Instructions

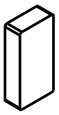
Screw End Cap

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.

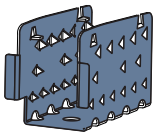
Components



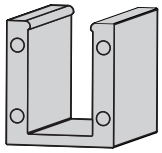
The Tail Plug (1pc)



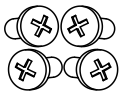
Silicone Gasket (1pc)



Anti-skidding Clip (1pc)

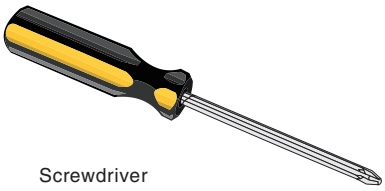


Aluminum Mounting Piece (1pc)

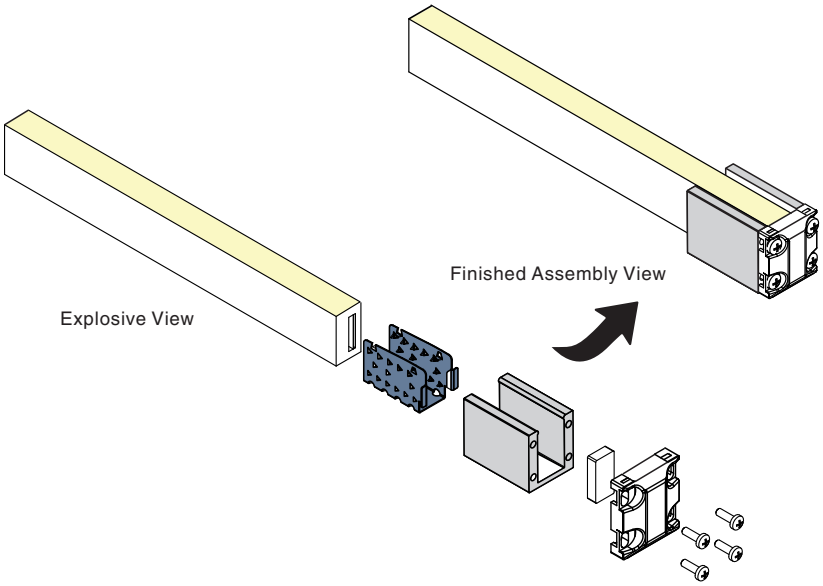


Screws (4pcs)

Tools



Screwdriver



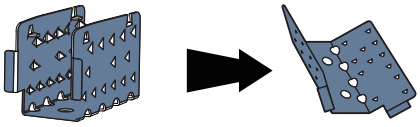
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FLEX LIGHT - FLEX QUBE

Installation Instructions

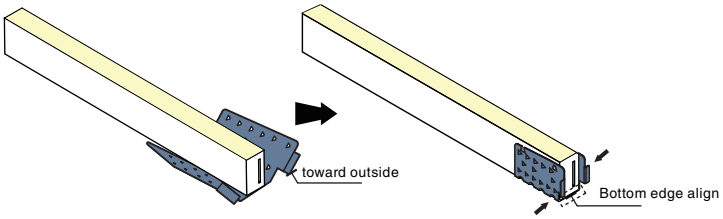
Screw End Cap

1. Treatment of Anti-Skidding Clip



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

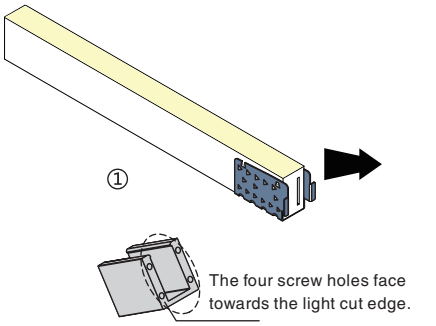
2. Installation of Anti-Skidding Clip
Prepare the light, and the end surface should be flush and smooth.

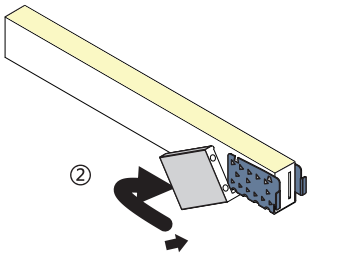


Place the anti-skidding clip onto the end of the light.

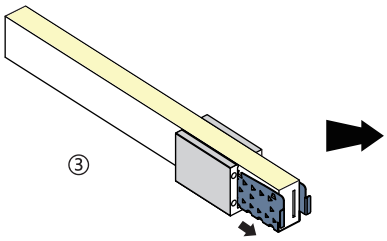
Fit the anti-skidding clip to the end of the light so that it wraps tightly and its brim is aligned with the bottom cut edge of the light.

3. Installation of Aluminum Mount Piece

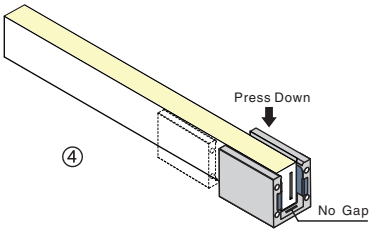




Place the mounting piece at an angle and rotate upwards until it parallels to light surface.



Pinch the anti-skidding clip edges and slide the mounting piece onto the anti-skidding clip straightly until end.



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

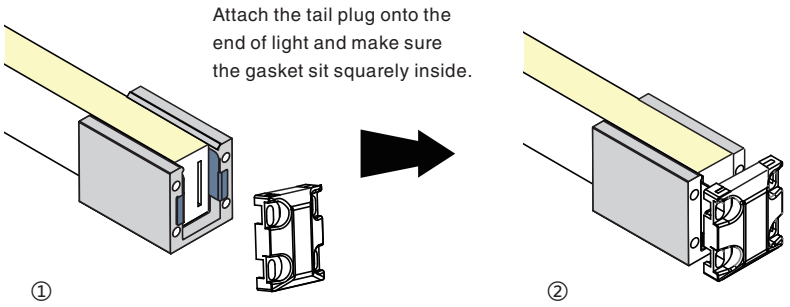
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FLEX LIGHT - FLEX QUBE

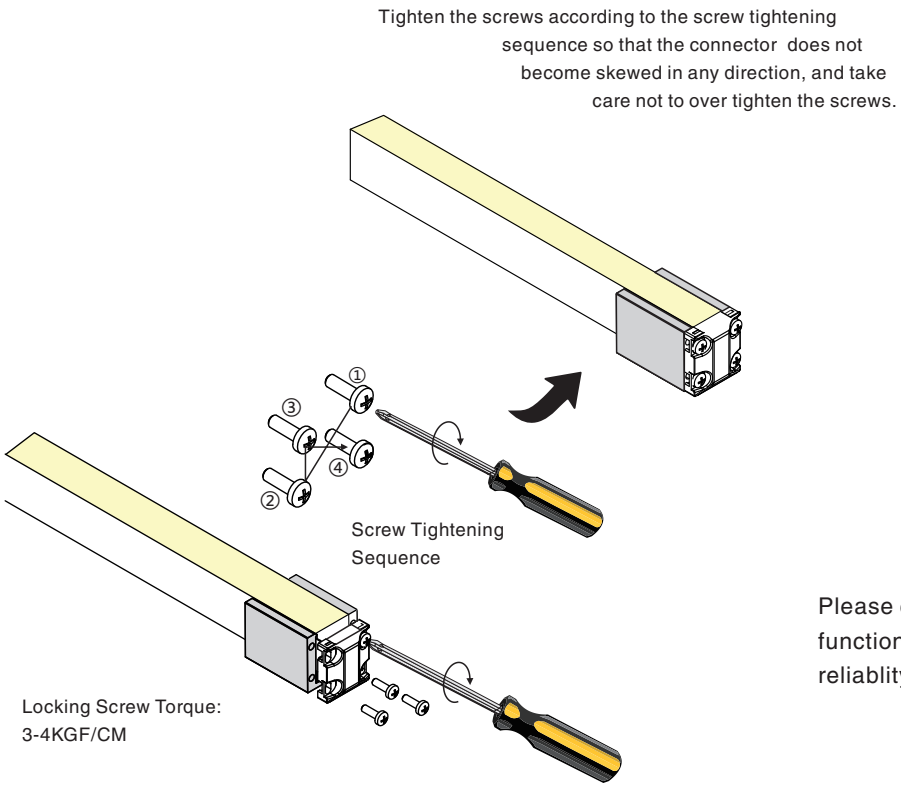
Installation Instructions

Screw End Cap

4. Screw Fixation for End Cap



The silicone gasket is attached on the tail pulg.



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

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FLEX LIGHT - FLEX QUBE

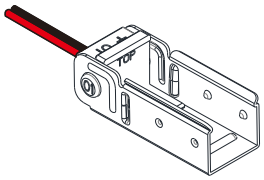
Installation Instructions

Swivel 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.

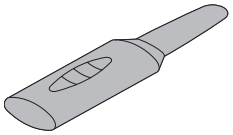
Components

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.



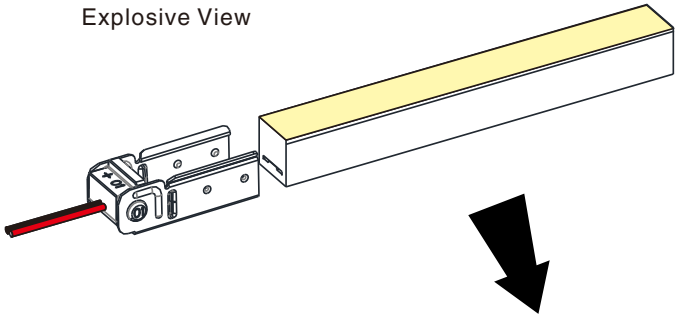
Feed Connector (1pc)
[U Steel Plate (1pc)]

Tools

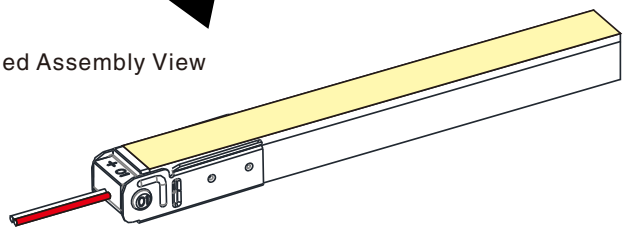


Inducer

Explosive View



Finished Assembly View



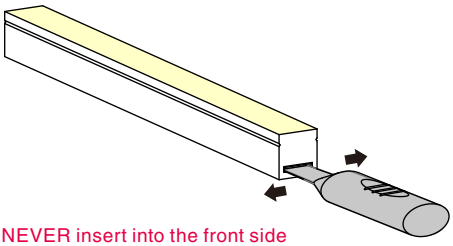
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FLEX LIGHT - FLEX QUBE

Installation Instructions

Swivel Front Connector

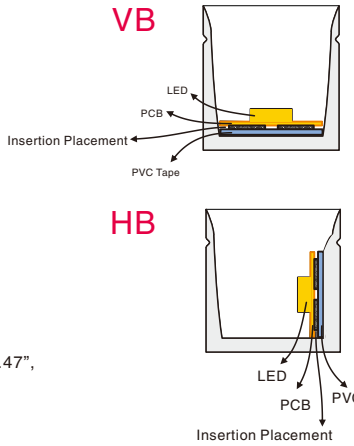
1. Inducing a Cavity for Feed Connector

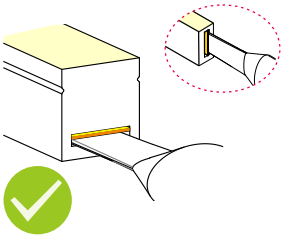


NEVER insert into the front side (LED side) of the PCB

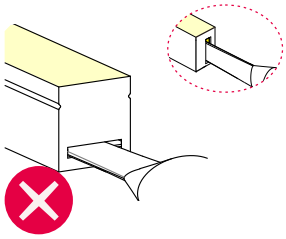
Insert the inducer to the backside of PCB around 0.39”-0.47”,

small cavity.



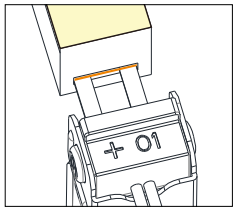


Insert the inducer into the backside of PCB

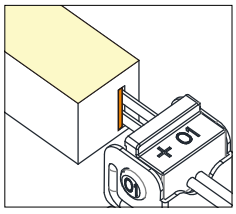


It will damage the light if inserted into front side of PCB

2. Insert the Feed Connector

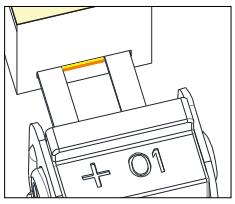


Insert the feed connector pins into the cavity that you created with the inducer (backside of PCB)

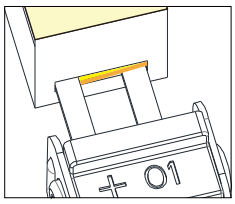


Insert the feed connector pins into the cavity that you created with the inducer (backside of PCB)

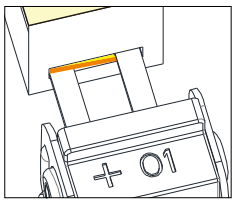
The following operations are prohibited:



Insert into the front side of the PCB

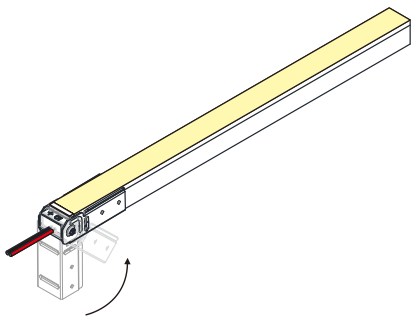


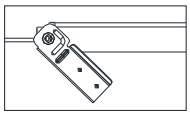
Insert crosswise into the PCB



Insert crosswise into the PCB

Make sure the insert to the backside of PCB, refer to the illustrations on top of this page to avoid any wrong inserts





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FLEX LIGHT - FLEX QUBE

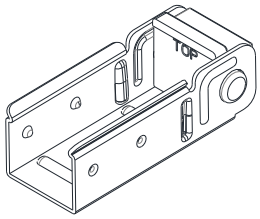
Installation Instructions

Swivel End Cap

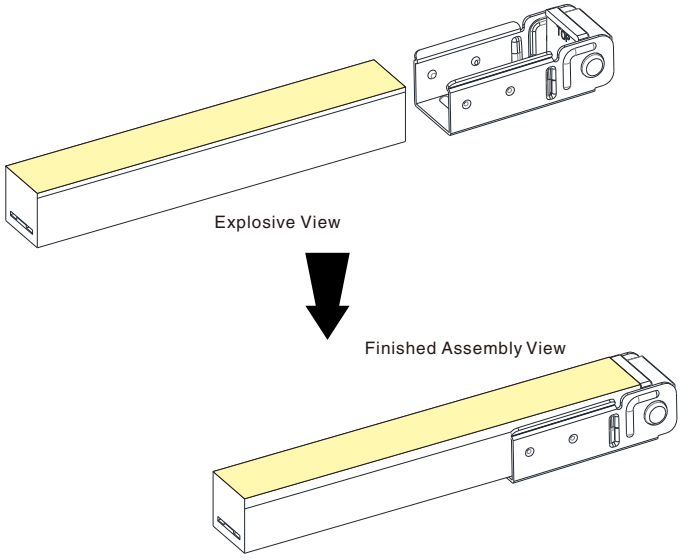
Please ignore these steps if the front connector has been assembled before delivery.
NOTE:
1. Never wet the assembly units or assemble with wet hands.
2. Please use the tools correctly.
3. Please pay attention to personal security when using tools.

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.



Tail Plug (1pc)
[U Steel Plate (1pc)]



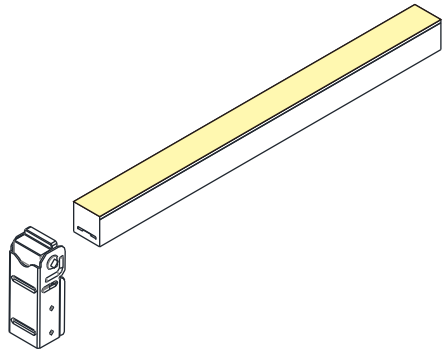
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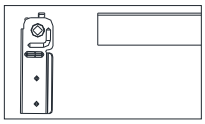
FLEX LIGHT - FLEX QUBE

Installation Instructions

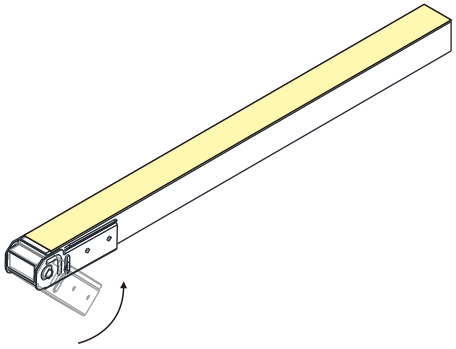
Clasp End Cap

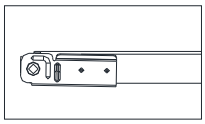
1. Rotate the end cap clockwise by 90 degrees.





2. Install the tail plug by butting the light and end cap together and rotate it to sit into the steel plate horizontally. Slide the light into the end cap and make sure they are attached tightly.





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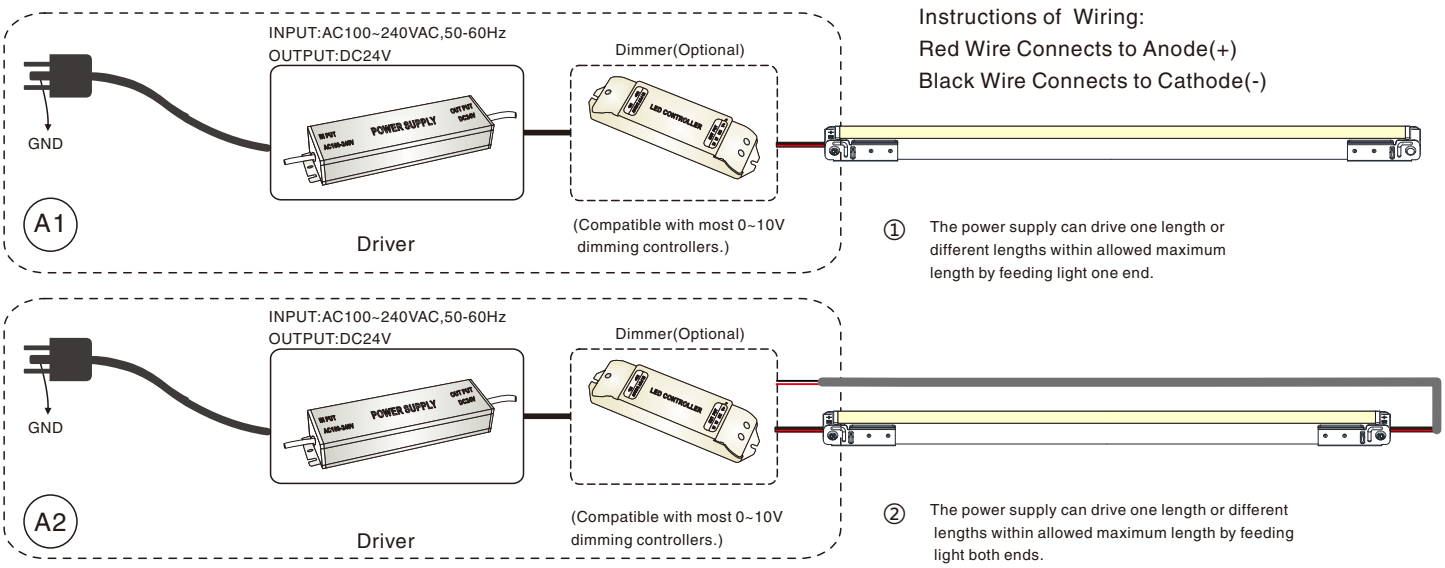
FLEX LIGHT - FLEX QUBE

Installation Instructions

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.



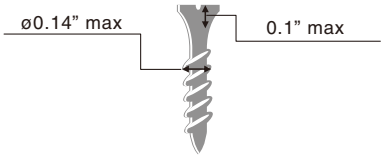
Max.Continuous Length	Single End Feed White	Double Ends Feed White
	32.81’	65.62’

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FLEX LIGHT - FLEX QUBE

Installation Instructions

Extrusions



Screw



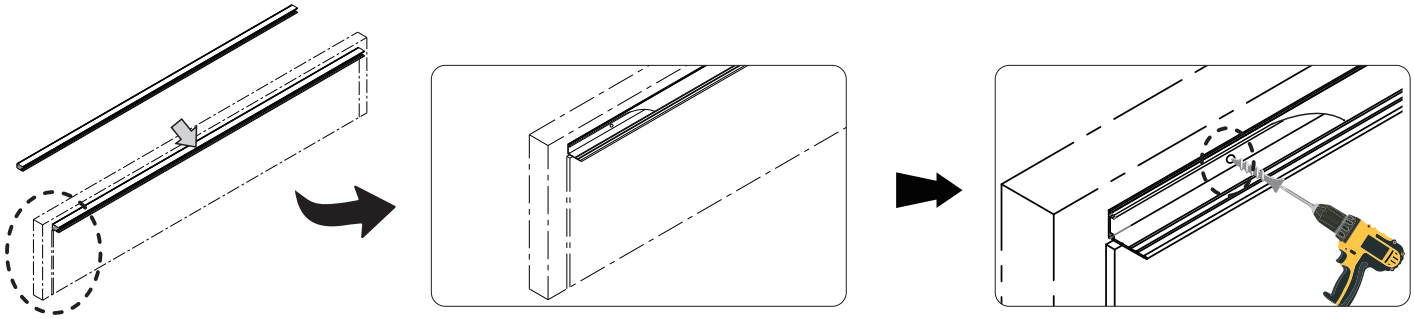
Screwdriver

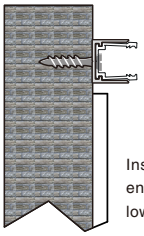
or



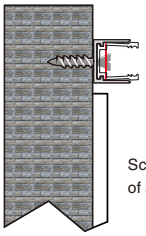
Electric Screwdriver

Aluminum Profile

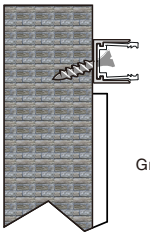




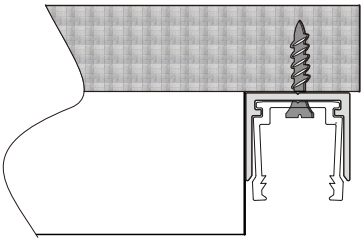
Install the screw into position and ensure the screw head is flush or lower the base of aluminum profile.



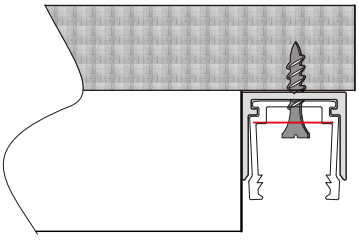
Screw head above the base of aluminum profile.



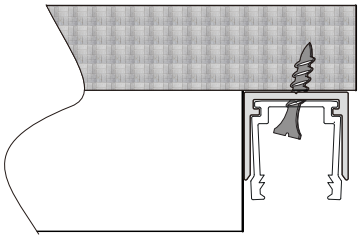
Gradient installing of screw.



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.

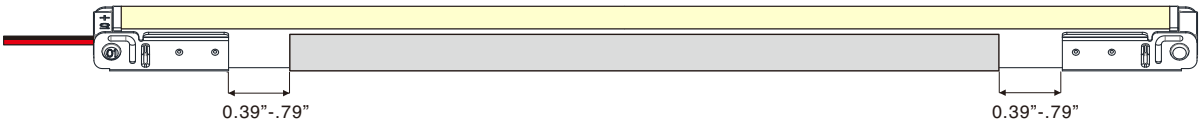
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FLEX LIGHT - FLEX QUBE

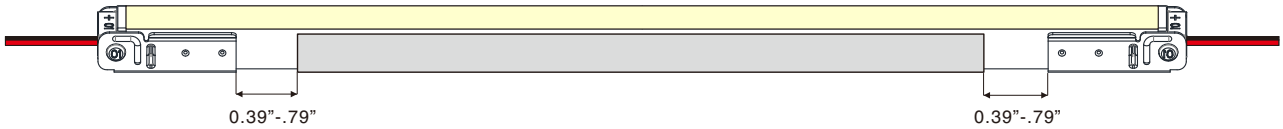
Installation Instructions

Extrusions - Requirements and Cautions for Installation

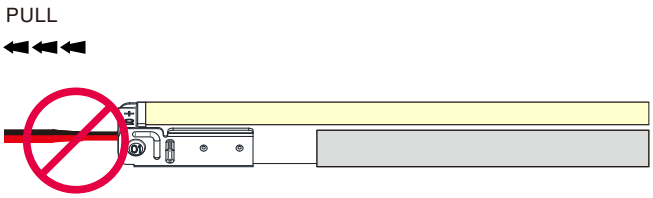
For fixtures with Screw Connectors (Clasp Connector and Sleeve Connector also refer to the following cautions)



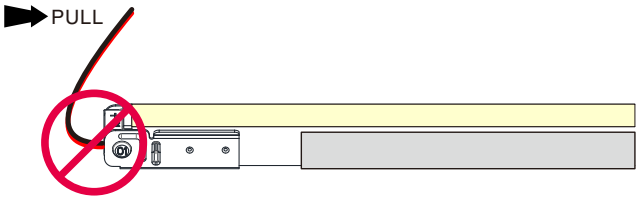
Ensure the supply cord is not subject to mechanical stress.
Keep 0.39”-0.79” distance between the end of aluminum profile and that of aluminum mounting piece.



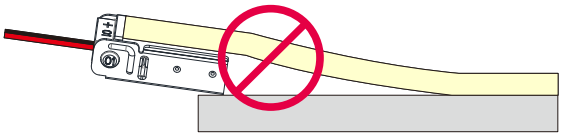
Mechanical stress on front connector cable shall be avoided.



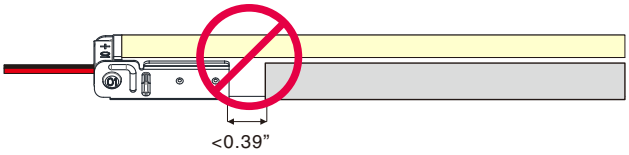
It is forbidden to curl or pull the front connector cable with excessive force.

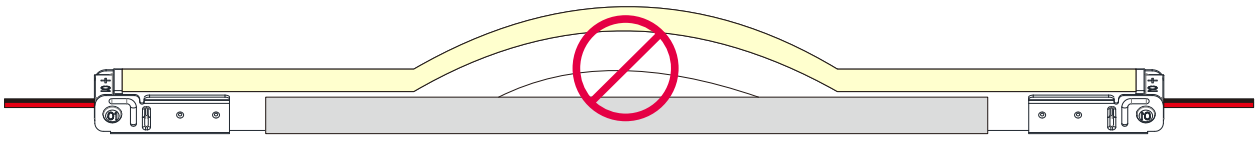


It is forbidden to let any connector aluminum mounting piece on the aluminum profile and make light deformation.



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.

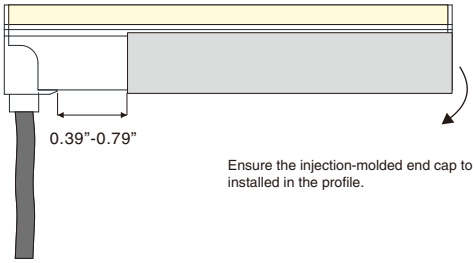
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FLEX LIGHT - FLEX QUBE

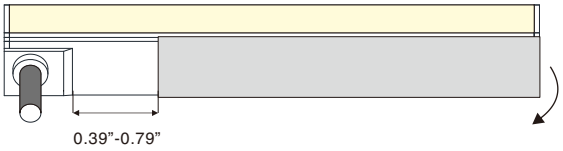
Installation Instructions

Extrusions - Requirements and Cautions for Installation

For fixtures with Injection-Molded Connectors

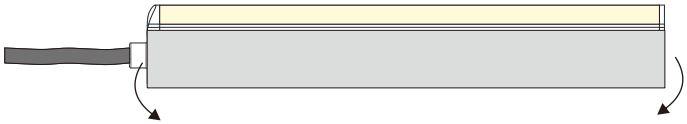


Ensure the injection-molded end cap to be installed in the profile.



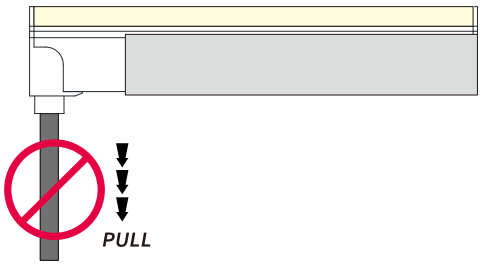
Ensure the injection-molded end cap to be installed in the profile.

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

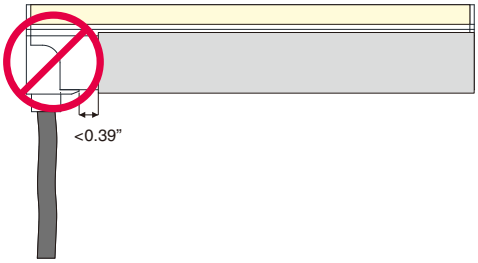


Ensure the injection-molded front connector (top end) and end cap to be installed in the profile.

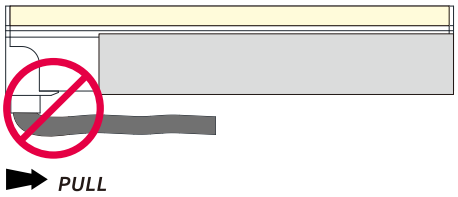
Mechanical stress on front connector cable shall be avoided.



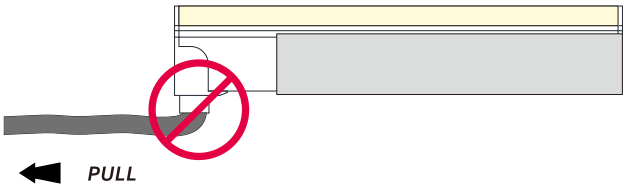
The space between connector and mounting profile less than 0.39” is forbidden.



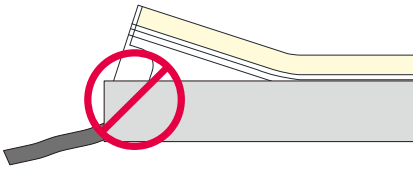
It is forbidden to curl or pull the front connector cable with excessive force.

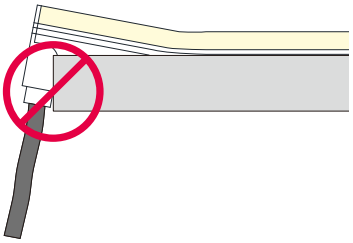


It is forbidden to curl or pull the front connector cable with excessive force.



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





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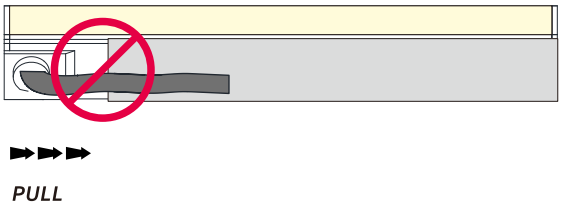
FLEX LIGHT - FLEX QUBE

Installation Instructions

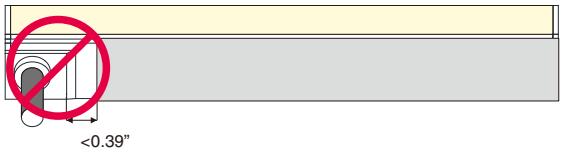
Extrusions - Requirements and Cautions for Installation

For fixtures with Injection-Molded Connectors

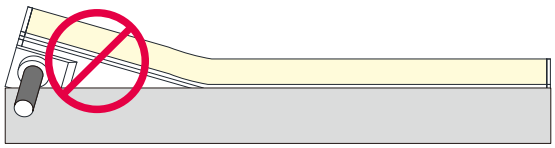
It is forbidden to curl or pull the front connector ca ble with excessive force.



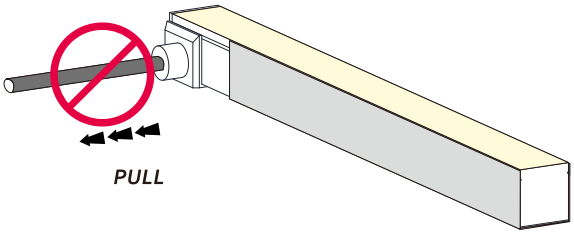
The space between connector and mounting profil e less than 10mm is forbidden.



It is forbidden to fo rce the injection -moulded end to fit into the mount ing profile and make light defo rmation.

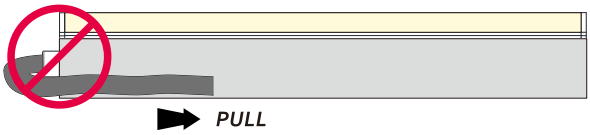


Mechanical stress on front connector cable shall be avoided.

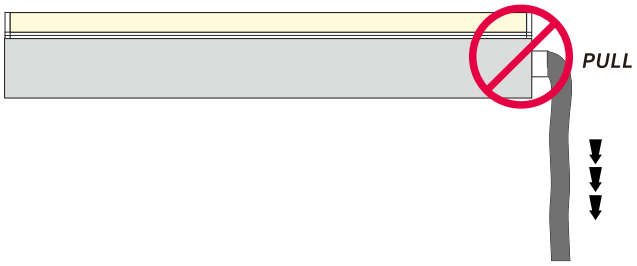


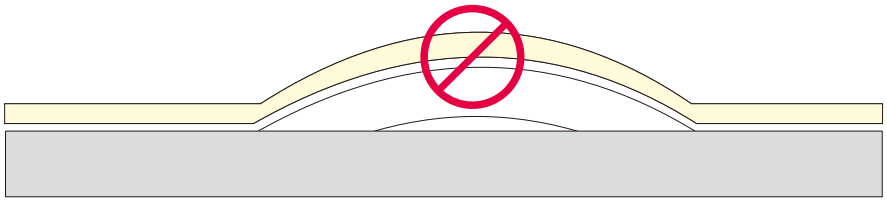


It is forbidden to curl or pull the fro nt connector cable with e xcessive force.



Mechanical stress on front connector c able shall be avoided.





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

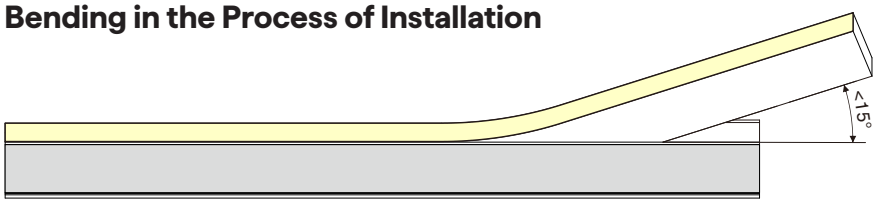


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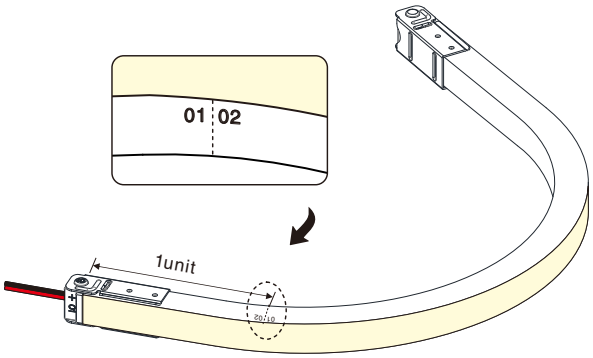
FLEX LIGHT - FLEX QUBE

Installation Instructions

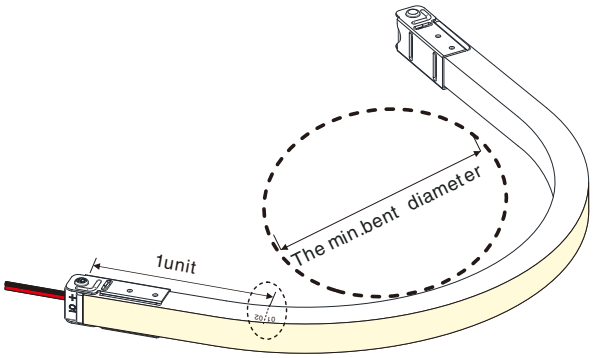
Bending in the Process of Installation



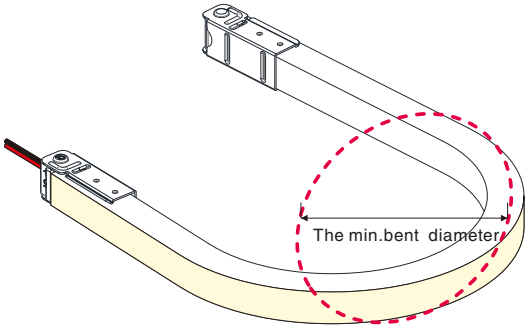
Installing angle should be less than 15 degree when pressing the light to the aluminum profile by hand.



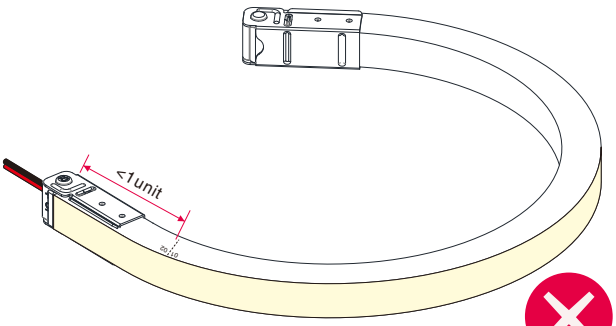
Please avoid bending at the first unit of the light.



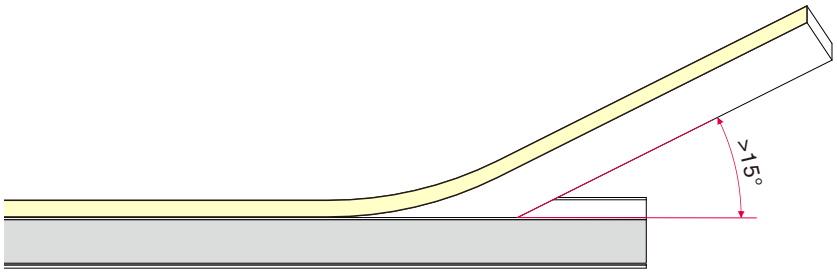
The light can bend in defined min. bending diameter or larger.



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.



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

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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.

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FLEX-QUBE-SW

FLEX Light Color Data

FLQ-SW-S-22-90-1.4

2257 K

CRI: 97.8

CRI R9: 93.0

TM30 Rf: 96.1

TM30 Rg: 102.5

CQS: 89.8

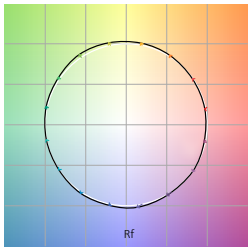
X: 0.495

Y: 0.408

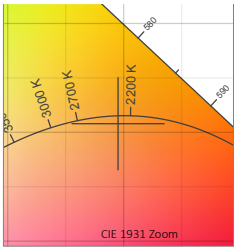
U: 0.287

V: 0.354

Δuv: -0.0024







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.5	98.5	99.0	98.8	98.9	95.9	96.3	95.9	93.0	98.2	97.2	91.4	99.0	98.3	99.2
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
89.5	90.8	90.9	91.1	92.6	90.7	87.0	87.9	91.6	91.2	90.0	89.1	89.3	89.0	90.9
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.6	96.6	93.1	96.0	95.8	94.0	95.1	96.0	97.8	99.3	97.2	96.4	93.4	90.4	96.3	96.3

TM30

Hue Bin	R_f	Chroma	Hue
1	98	-1%	0%
2	97	-1%	2%
3	93	1%	3%
4	96	2%	2%
5	96	3%	2%
6	94	4%	0%
7	95	2%	-2%
8	96	1%	-3%
9	98	0%	-1%
10	99	0%	0%
11	97	2%	0%
12	96	2%	-1%
13	93	3%	-7%
14	90	0%	-7%
15	96	0%	-3%
16	96	-2%	-2%

FLQ-SW-S-WH-27-90-1.4

2868 K

CRI: 98.5

CRI R9: 95.2

TM30 Rf: 96.8

TM30 Rg: 100.4

CQS: 95.3

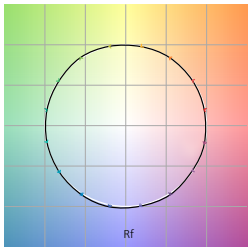
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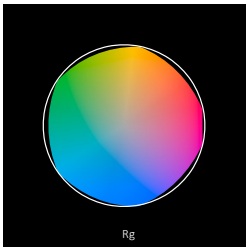
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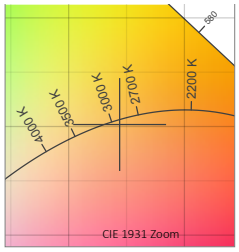
U: 0.256

V: 0.348

Δuv: -0.0018







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.5	99.5	98.2	98.3	99.0	98.3	97.8	97.4	95.2	98.5	98.2	91.3	99.6	98.2	99.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
95.8	96.8	93.4	92.9	94.7	96.2	94.6	95.3	97.7	96.2	95.3	95.5	96.1	96.1	96.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.6	97.9	96.1	97.2	96.9	97.7	96.9	98.6	97.5	95.3	95.3	95.5	96.3	96.2	97.1	95.9

TM30

Hue Bin	R_f	Chroma	Hue
1	98	-1%	1%
2	98	0%	1%
3	96	0%	2%
4	97	0%	1%
5	97	0%	1%
6	98	1%	0%
7	97	-1%	0%
8	99	-1%	0%
9	97	0%	1%
10	95	0%	3%
11	95	1%	3%
12	95	2%	0%
13	96	1%	-2%
14	96	2%	-2%
15	97	-1%	-1%
16	96	0%	-3%

FLQ-SW-S-WH-30-90-1.4

3105 K

CRI: 98.1

CRI R9: 98.7

TM30 Rf: 94.1

TM30 Rg: 100.2

CQS: 94.5

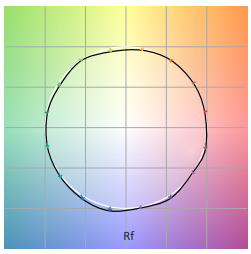
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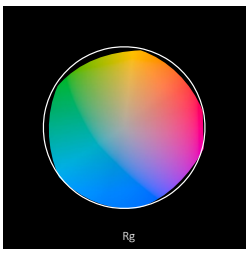
Y: 0.393

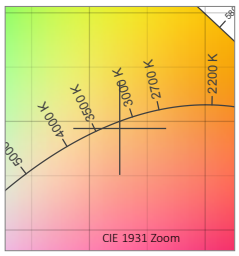
U: 0.248

V: 0.344

Δuv: -0.0027







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.7	98.6	98.8	98.4	98.2	96.7	97.3	98.0	98.7	98.7	98.5	83.4	98.7	98.7	97.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.5	97.0	91.7	90.4	92.6	95.5	95.2	95.7	98.0	96.9	96.0	96.0	96.5	95.9	95.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.6	97.2	96.4	94.6	93.6	97.5	92.8	96.9	92.6	89.4	90.8	93.0	95.9	94.0	93.1	91.7

TM30

Hue Bin	R_f	Chroma	Hue
1	96	-1%	1%
2	97	0%	0%
3	96	0%	1%
4	95	-2%	-1%
5	94	-4%	0%
6	98	0%	0%
7	93	-3%	3%
8	97	-1%	1%
9	93	0%	5%
10	89	1%	6%
11	91	3%	6%
12	93	5%	0%
13	96	1%	-3%
14	94	3%	-3%
15	93	0%	-1%
16	92	2%	-7%

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-03-11-24

FLEX-QUBE-SW

FLEX Light Color Data

FLQ-SW-S-35-90-1.4

3719 K

CRI: 97.7

CRI R9: 96.1

TM30 Rf: 92.5

TM30 Rg: 99.2

CQS: 95.0

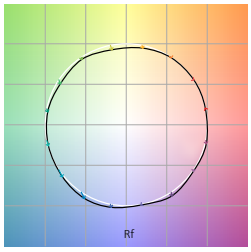
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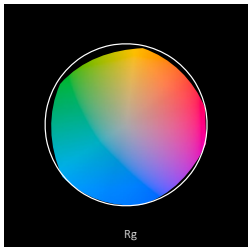
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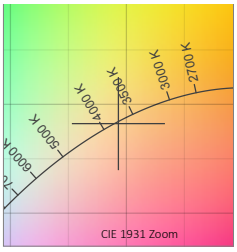
U: 0.231

V: 0.337

Δuv: -0.0009







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.7	99.8	97.0	97.5	97.1	96.7	97.7	97.1	96.1	98.0	98.0	75.8	99.2	97.6	96.3
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
92.8	98.5	91.0	89.3	92.1	94.7	97.7	98.4	98.1	98.4	98.0	99.0	99.7	98.3	96.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
94.6	96.9	96.4	92.8	91.4	95.9	92.0	93.9	90.4	86.2	87.6	93.0	96.6	93.5	91.8	91.3

TM30

Hue Bin	R_f	Chroma	Hue
1	95	0%	1%
2	97	0%	0%
3	96	0%	0%
4	93	-3%	-2%
5	91	-6%	-1%
6	96	-2%	1%
7	92	-4%	3%
8	94	-2%	3%
9	90	-1%	7%
10	86	1%	10%
11	88	4%	8%
12	93	4%	2%
13	97	1%	-2%
14	93	4%	-2%
15	92	1%	-1%
16	91	2%	-4%

FLQ-SW-S-40-90-1.4

4286 K

CRI: 93.9

CRI R9: 82.0

TM30 Rf: 89.5

TM30 Rg: 98.0

CQS: 93.2

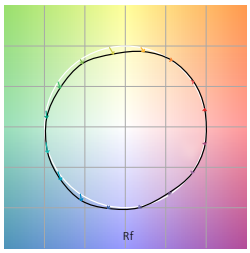
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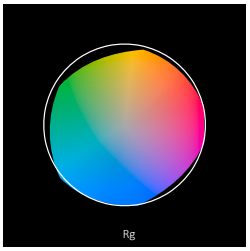
Y: 0.358

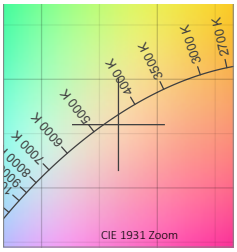
U: 0.223

V: 0.327

Δuv: -0.0046







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.2	94.2	97.8	93.4	93.5	92.8	92.9	92.3	82.0	90.6	96.6	72.1	93.8	99.4	90.1
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
88.0	94.8	93.0	88.0	88.0	89.8	97.7	98.7	98.9	98.7	99.0	99.2	99.0	96.1	92.4
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.3	93.9	94.7	89.5	87.4	92.1	88.3	86.8	83.8	84.5	87.7	93.5	92.5	93.6	89.6	89.0

TM30

Hue Bin	R_f	Chroma	Hue
1	91	1%	3%
2	94	1%	0%
3	95	0%	-2%
4	89	-4%	-4%
5	87	-9%	-3%
6	92	-5%	0%
7	88	-6%	5%
8	87	-2%	8%
9	84	0%	12%
10	85	3%	10%
11	88	6%	6%
12	94	3%	-2%
13	93	1%	-3%
14	94	-2%	0%
15	90	1%	-2%
16	89	1%	-2%

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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