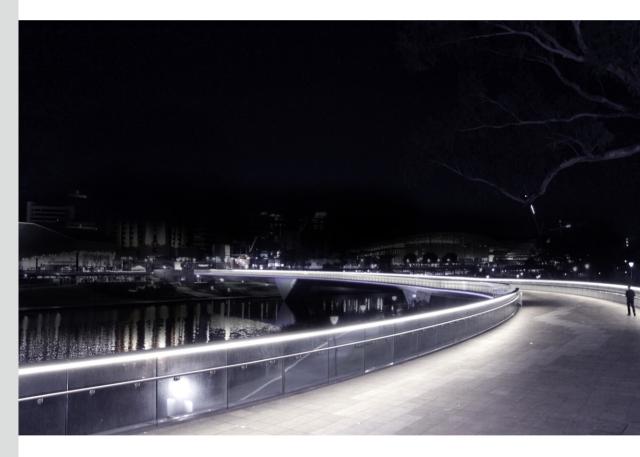


**Neon-Flex Series-4** 

## **USER MANUAL**

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION, LEAVE A COPY FOR THE ENDUSER/MAINTENANCE ENGINEER FOR FUTURE REFERENCE.













### 02

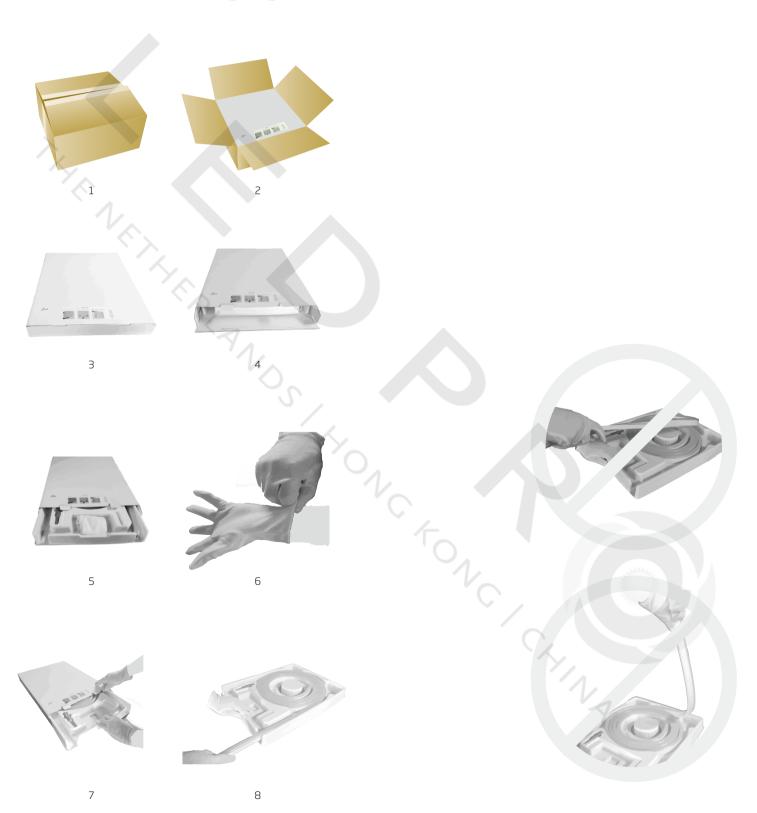
## Table Of Contents

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### 03

## Unpacking

White Box Packaging



## Basic Parameters

- 1. Dimension: 16\*17mm
- 2. Min. bend diameter: 300mm
- 3. Protection rate: IP68
- 4. IP68 protection rate: Protected against dust and submersion in water (1 meter above).
- 5. The product IP rate is ultimately in line with properly applied IP rated connectors.
- 6. Easy to use with a range of accessories for joining, terminating, mounting and powering.
- 7. Long lifespan: 5 years.
- 8. Environmental Working Tempeature: -20°C~45°C
- 9. Environmental Installation Tempeature: 0°C~45°C





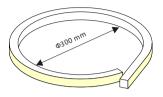
Note: Unless otherwise stated, the tolerance of the light is  $\pm 0.3$ mm.

Product Type: NFS4 (Pro)

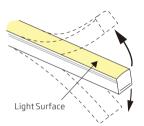
Light Col	or Appearance of Cover Î	LED Qty/mtr	Working Voltage	Rated Power/m	LED Spacing	Min.Cutting Length	Max.Running Length
A(T) RGB	WM	72LEDs	D24CC	12W	13.89mm	83.3mm(6LEDs)	7m for single end feed
							14m for double ends feed
B(T) R/A	WM	108LEDs	D24CC	7.2W	9.26mm	83.3mm(9LEDs)	15m for single end feed
			/ /				30m for double ends feed
G/B/W	WM	108LEDs	D24CC	12W	9.26mm	55.56mm(6LEDs)	10m for single end feed
							20m for double ends feed
D(T) WW+W	WM	144LEDs	D24CV	12W	13.89mm	83.3mm(12LEDs)	10m for single end feed
							20m for double ends feed
	Housing <sup>1</sup> +Milky Light-emit color is the light color excep	_	emitting surface.				

## Cautions

- 1. Before making any cuts, installation, maintenance or connection, be sure the mains is disconnected!
- 2. All connector joints must be connected correctly to achieve IP68 rating.
- 3. Please operate this flex light by instructions, and confirm the work voltage, it must be matched with product requirements.
- 4. Please confirm the polarity of connector before inserting front connector and energizing the mains power.
- 5. Connect and cut this light correctly. Any wrong operation will damage this light.
- 6. Using qualified DC power supply.
- 7. Please correctly use and bend this Neon-Flex, see the figures on the right.
- 8.Do not operate light when ambient temperature exceeds the range of specified temperature in User Manual.
- 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 simultaneoursly.

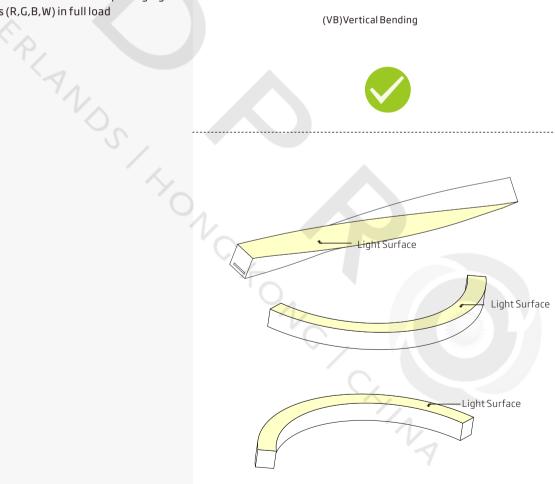


Keep the min. bend diameter 300mm



(VB)Vertical Bending





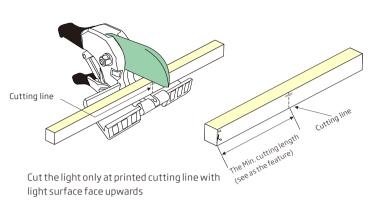
WARNING: The above wrong approaches will damage the light.

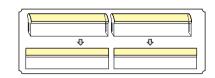


## Instructions for light cutting

#### Note:

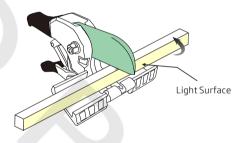
- 1. Place the light horizontally when cutting it.
- 2. Use only factory-recommended cutter.
- 3. Cut the light according to the following instructions. Incorrect operation will damage the light

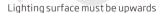




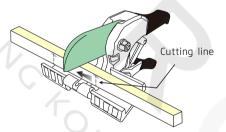
The cutting surface must be flush and smooth.





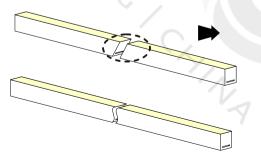
















Don't cut slantingly

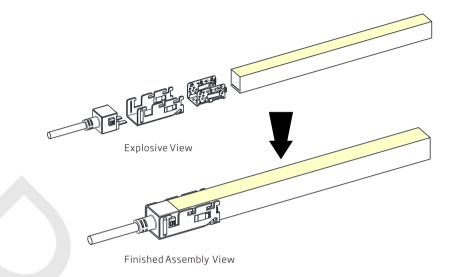


## Clasp Front Connector

## 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 attentions to personal security when using tools.
- 4. Failure to properly seal and assemble as instructed may void warranty.



## 1.Components of Front Connector

#### Note:

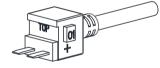
The light ends are marked with either an 01 or an 02. Always make sure to use an identically labeled connector for the appropriate direction.



Anti-skidding Clip (1pc)

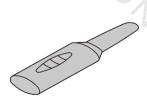


U Steel Plate (1pc)



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

#### 2.Tools



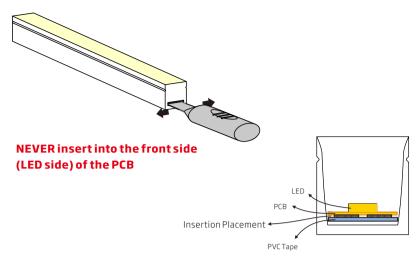
Inducer



Gripper

#### 3.Installation Steps

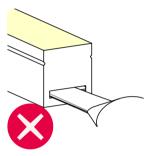
#### 3.1 Inducing a Cavity for Feed Connector



Insert the inducer to the backside of PCB around  $10 \sim 12$ mm, move the inducer right and left  $3 \sim 5$  times gently to create a small cavity.

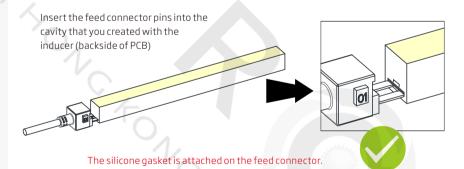


Insert the inducer into the backside of PCB

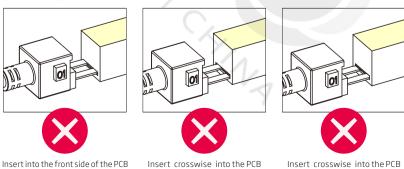


It will damage the light if insert into front side of PCB

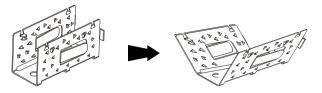
#### 3.2 Inserting the Feed Connector



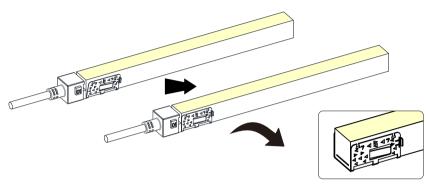
The following operations are prohibited:



#### 3.3 Treatment of Anti-skidding Clip

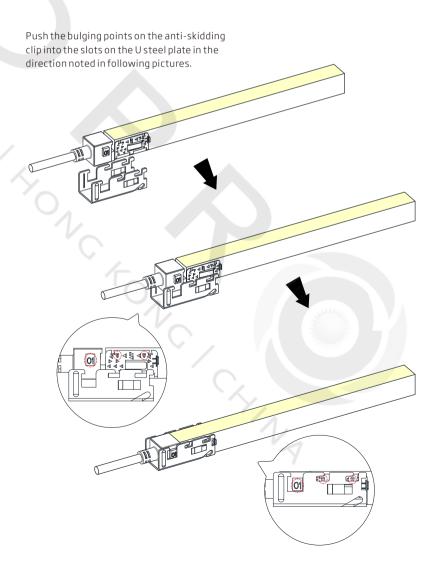


Unfold the anti-skidding clip about 20 degrees on both sides.

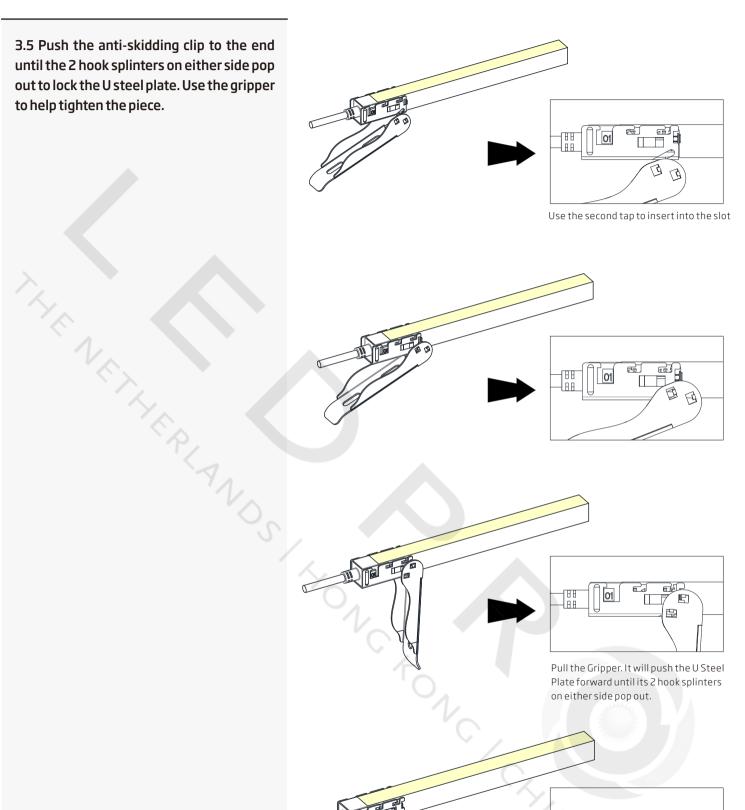


Place the anti-skidding clip onto the end of the light. Notice its installation direction. Fit the anti-skidding clip to the end of the light tightly and align with the light end edge.

#### 3.4 Installation for U Steel Plate



3.5 Push the anti-skidding clip to the end until the 2 hook splinters on either side pop out to lock the U steel plate. Use the gripper to help tighten the piece.



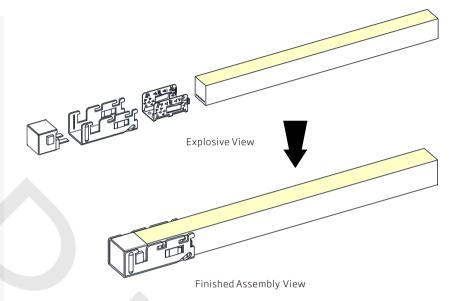
Please energize the light to check its functionality and do waterproof reliablity testing (refer to "waterproof reliability testing instruction" video) after connector assembly.

## Clasp End Cap

### Please ignore these steps if the end cap 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 attentions to personal security when using tools.
- 4. Failure to properly seal and assemble as instructed may void warranty.



#### 1. Components of End Cap



Anti-skidding Clip (1pc)



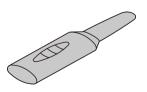
U Steel Plate (1pc)



Silicone Gasket(1pc)



Tail Plug (1pc)



Inducer

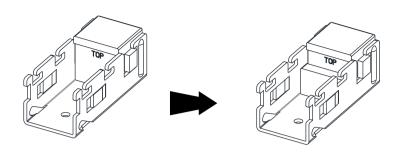


Gripper

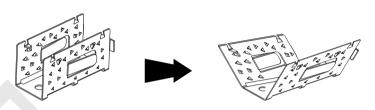
#### 2.Tools

#### 3.Installation Steps

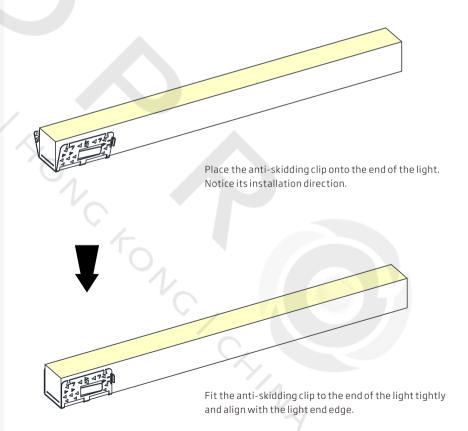
#### 3.1 Place the tail plug into the U steel plate



# 3.2 Treatment of Anti-Skidding Clip



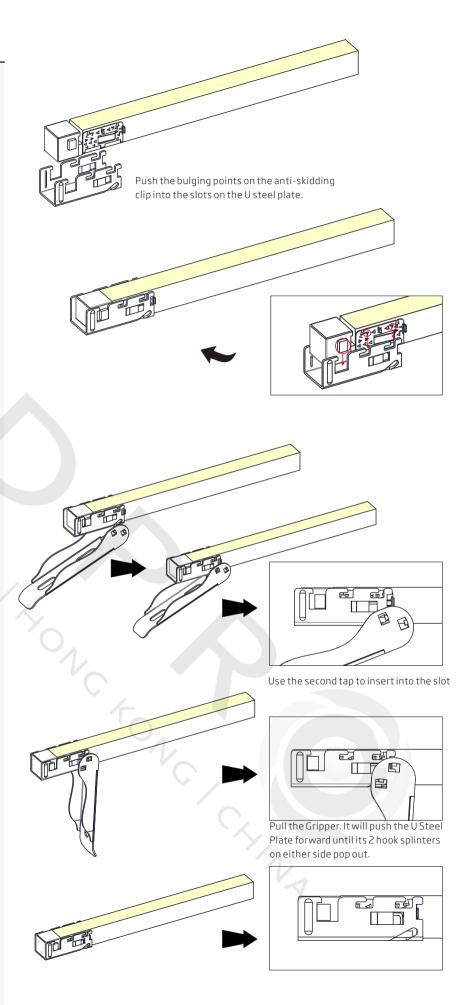
Unfold the anti-skidding clip about 20 degrees on both sides.



#### 3.3. Installation of Tail Plug

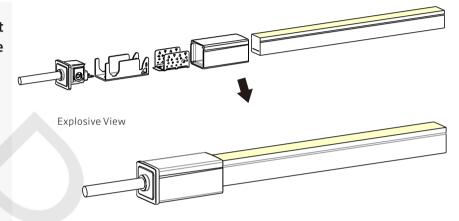
3.4 Push the anti-skidding clip to the end until the 2 hook splinters on either side pop out to lock the U steel plate. Use the gripper to help tighten the piece.

Please energize the light to check its functionality and do waterproof reliablity testing (refer to "waterproof reliability testing instruction" video) after connector assembly.



## Snap Front Connector

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



Finished Assembly View

#### 1. Components of Front Connector

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.



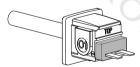
Anti-skidding Clip (1pcs)



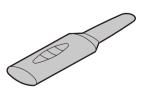
U Steel Plate (1pc)



PC Cover (1pc)



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

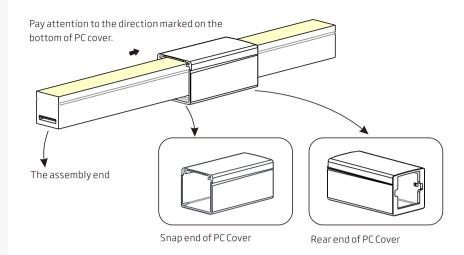


Inducer

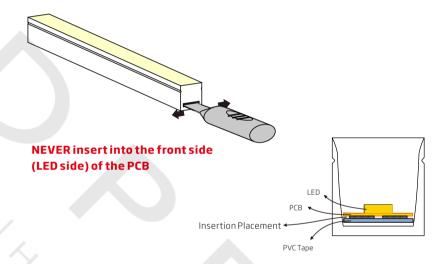
#### 2. Tools

#### 3. Installation steps

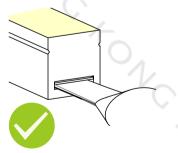
#### 3.1 Placing PC Cover



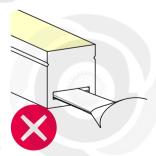
#### 3.1 Inducing a Cavity for Feed Connector



Insert the inducer to the backside of PCB around  $10 \sim 12$ mm, move the inducer right and left  $3 \sim 5$  times gently to create a small cavity.

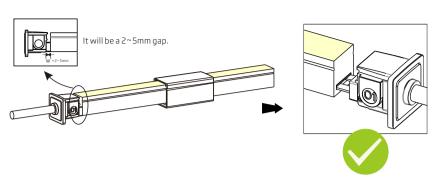


Insert the inducer into the backside of PCB

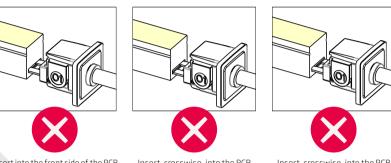


It will damage the light if insert into front side of PCB

#### 3.3 Inserting the Feed Connector



The following operations are prohibited:

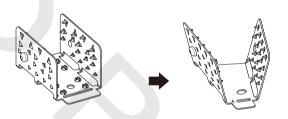


Insert into the front side of the PCB

Insert crosswise into the PCB

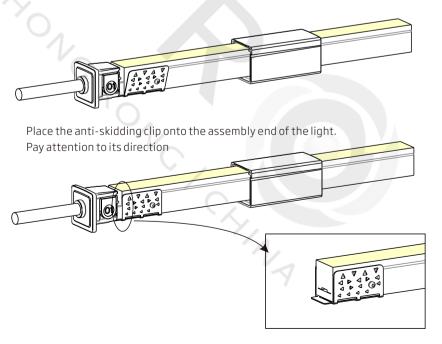
Insert crosswise into the PCB

#### 3.4 Treatment of Anti-skidding Clip



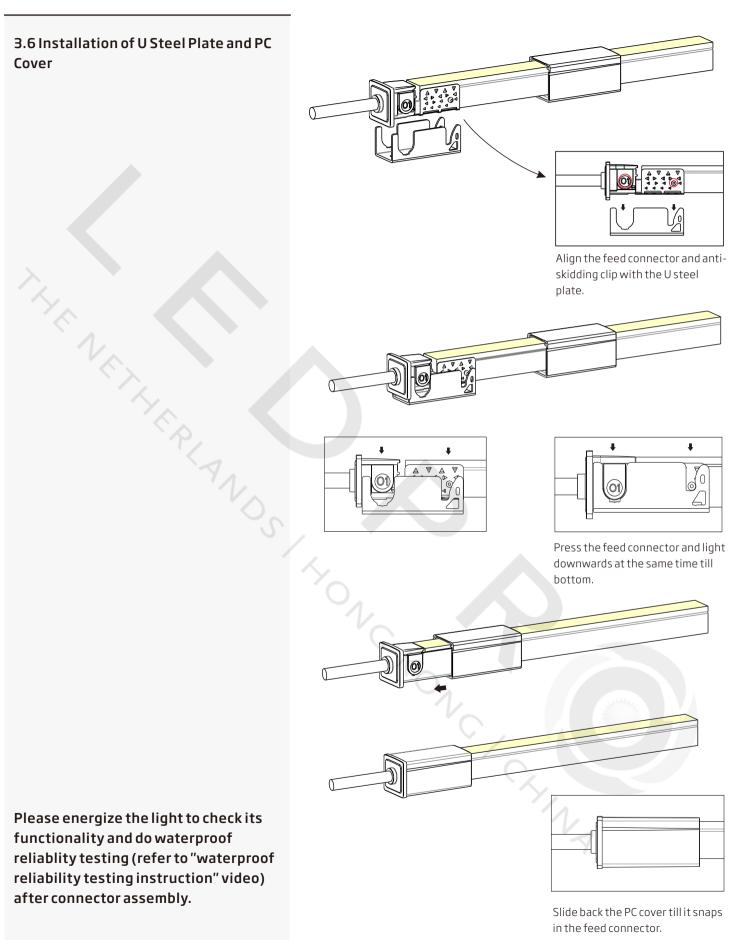
Unfold the anti-skidding clip about 20 degrees on both sides.

#### 3.5 Installation of Anti-Skidding Clip



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.

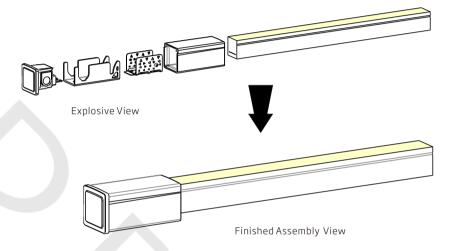
#### 3.6 Installation of U Steel Plate and PC Cover



Please energize the light to check its functionality and do waterproof reliablity testing (refer to "waterproof reliability testing instruction" video) after connector assembly.

## Snap End Cap

Please ignore these steps if the End Cap has been assembled before delivery. el.



#### 1. Components of End Cap



Anti-skidding Clip (1pc)



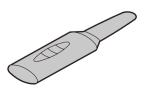
U Steel Plate (1pc)



PC Cover (1pc)



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



Inducer

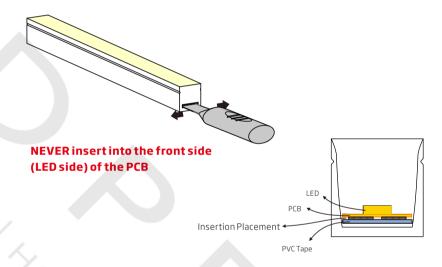
#### 2. Tools

#### 3. Installation steps

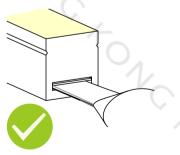
#### 3.1 Placing PC Cover

## Pay attention to the direction marked on the bottom of PC cover. The assembly end Snap end of PC Cover Rear end of PC Cover

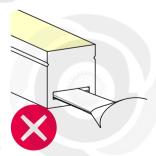
#### 3.2 Inducing a Cavity for Tail Plug



Insert the inducer to the backside of PCB around  $10 \sim 12$ mm, move the inducer right and left  $3 \sim 5$  times gently to create a small cavity.

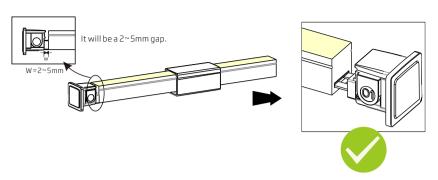


Insert the inducer into the backside of PCB

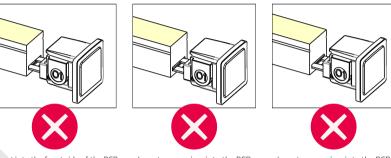


It will damage the light if insert into front side of PCB

#### 3.3 Inserting the Tail Plug



#### The following operations are prohibited:

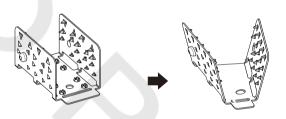


Insert into the front side of the PCB

Insert crosswise into the PCB

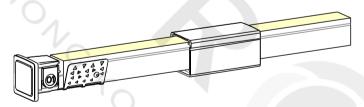
Insert crosswise into the PCB

#### 3.4 Treatment of Anti-skidding Clip

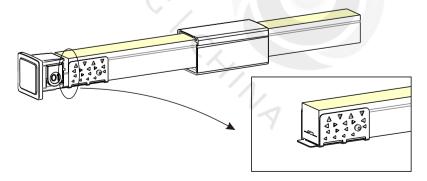


Unfold the anti-skidding clip about 20 degrees on both sides.

#### 3.5 Installation of Anti-Skidding Clip

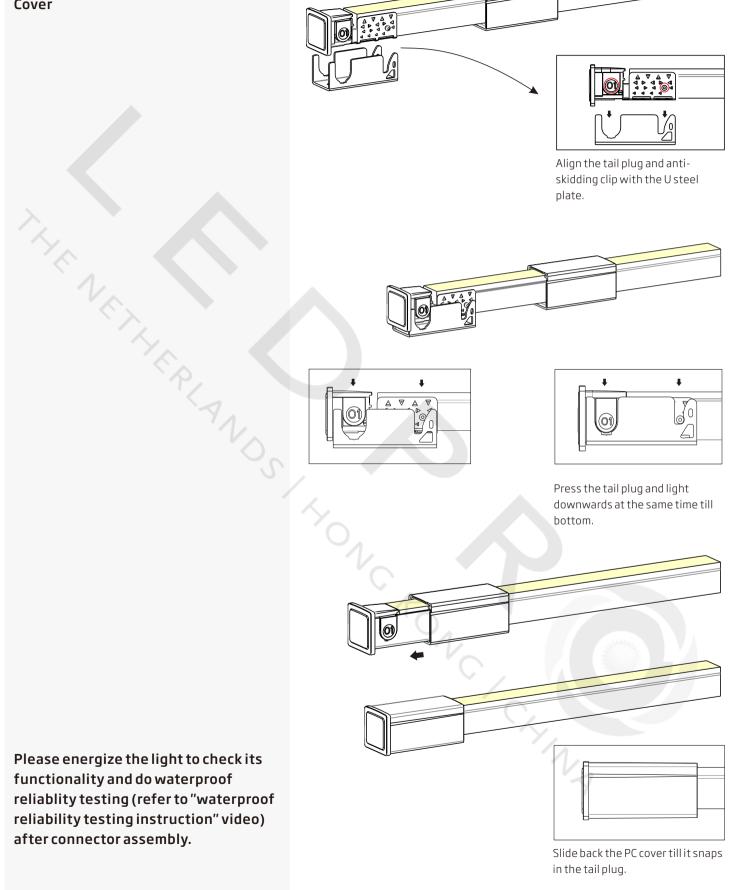


Place the anti-skidding clip onto the assembly end of the light. Pay attention to its direction



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.

#### 3.6 Installation of U Steel Plate and PC Cover



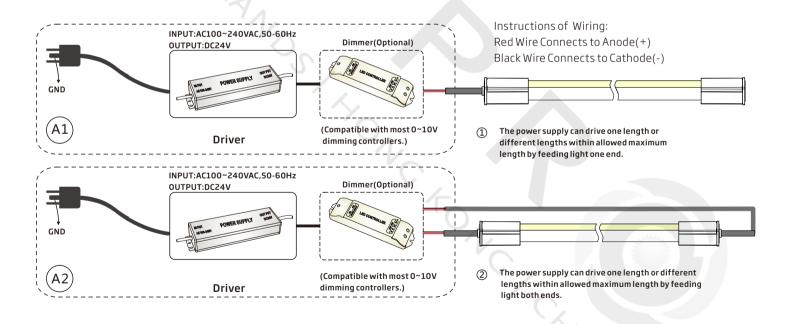
Please energize the light to check its functionality and do waterproof reliablity testing (refer to "waterproof reliability testing instruction" video) after connector assembly.

## Diagram of Light Wiring

#### 1. Monochrome Light Wiring

#### Note

- 1. This LED Neon-Flex 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 Neon-Flex and keep the power line as short as possible.



Max.Continuous Length	Article No.	Single End Feed Red/Amber	Single End Feed Green/Blue/White	Double Ends Feed Red/Amber	Double Ends Feed Green/Blue/White
	NFS4B-D24CC	15m	10m	30m	20m
	NFS4-Pro-D24CC	15m	10m	30m	20m

#### 2. RGB Light Wiring

#### Note:

- 1. This Neon-Flex must be used in conjunction with DC24V power supply. 2.
  Always observe proper polarity. Polarity symbols should match on each component.
- 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 Neon-Flex and keep the power line as short as possible.
- 6. Compatible with RGB controller and DMX control.

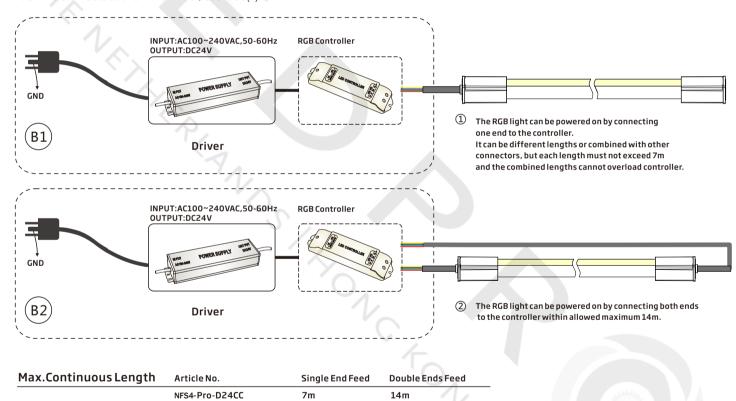
Instructions of RGB Light Wiring:

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(-).



#### 3. Dynamic Light Wiring

#### Note:

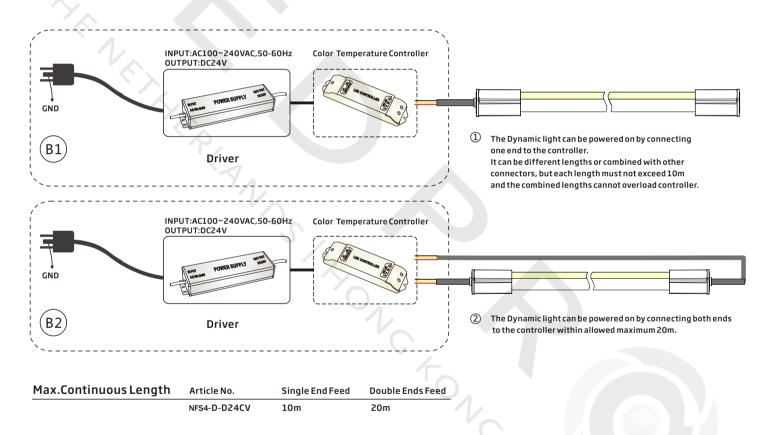
- 1. This Neon-Flex must be used in conjunction with DC24V power supply. 2.
  Always observe proper polarity. Polarity symbols should match on each component.
- 3. Ensure to add 20% buffer when sizing power supply.
- 4. Ensure that the power cable carried current is no greater than 80% of its capacity.
- 5. To minimize the voltage drop and keep light consistency, position power supply nearest to the power feed end of Neon-Flex 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(-).

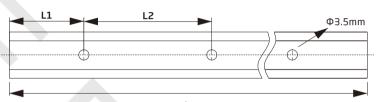
Black Wire Connects to High Color Temperature Connection, Cathode(-).

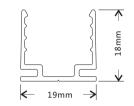


## Mounting Profile Options

#### 1. Standard Aluminum Profile







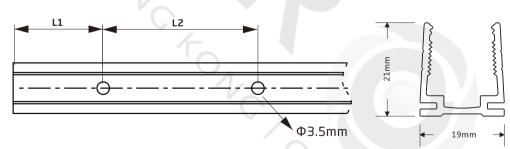
Note: Unless otherwise stated, the tolerance of the profile is  $\pm 0.5$ mm.

#### **Dimensions:**

Model	W*H(mm)	Length(mm)	L1(mm)	L2(mm)	Screw Hole(mm)	Hole Number
S4-A/PL	19*18	35	17.5	1	Ф3.5	1
		500	50	200	Ф3.5	3
		1000	100	200	Ф3.5	5
		2000	100	200	Ф3.5	10

#### 2. Plastic Profile



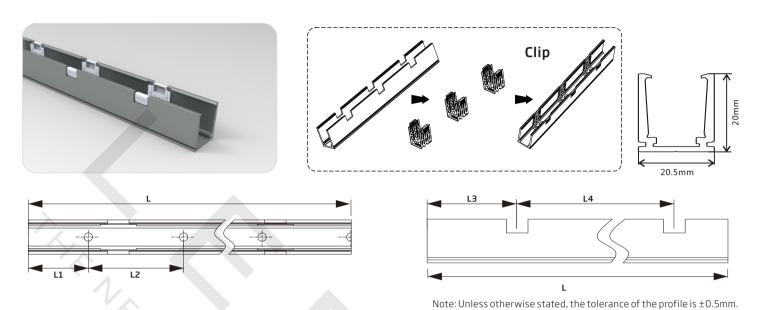


Note: Unless otherwise stated, the tolerance of the profile is  $\pm 0.5$ mm.

#### **Dimensions:**

Model	W*H(mm)	Length(mm)	L1(mm)	L2(mm)	Screw Hole(mm)	Hole Number
S4-PC/PL	19*21	500	50	200	Ф3.5	3
		1000	100	200	Ф3.5	5
		2000	100	200	Ф3.5	10

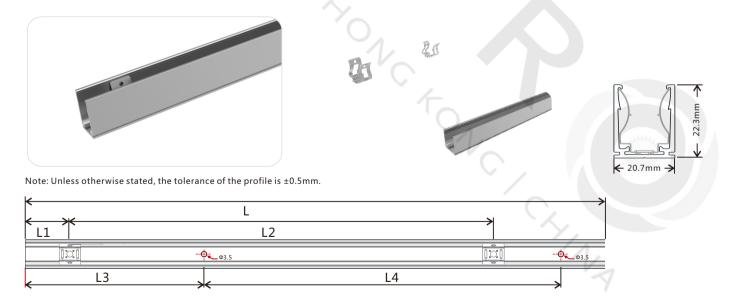
#### 3. Self-locking Aluminum Profile Ver 1.0 (Using with the clip)



#### Dimensions:

Model	W*H(mm)	Length(mm)	L1(mm)	L2(mm)	L3(mm)	L4(mm)	Screw Hole(mm)	Hole Number	Clip Number
S4-SLA/PL	20.5*20	35	17.5	25	5	1	Ф3.5	2	1
		500	50	200	75	350	Ф3.5	3	2
		1000	100	200	150	350	Ф3.5	5	3
		2000	100	200	125	350	Ф3.5	10	6

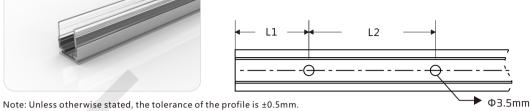
#### 4. Self-locking Aluminum Profile Ver 2.0 (Using with the Clip)

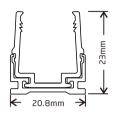


Model	W*H(mm)	Standard Length(mm)	L1(mm)	L2(mm)	L3(mm)	L4(mm)	Hole Screw(mm)	Hole Number	Clip Number
•	-SLA/PL2 20.7*22.3	35	17.5	/	5	25	Ф3.5	2	1
S4-SLA/PL2		500	25	150	50	200	Ф3.5	3	4
34-3LA/PLZ	20.7 22.5	1000	25	190	100	200	Ф <b>3.5</b>	5	6
	2000		25	195	100	200	Ф3.5	10	11

#### 5. Plastic & Aluminum Combination Profile



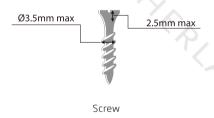




Model	W*H(mm)	Standard Length (mm)	L1(mm)	L2 (mm)	Screw Hole (mm)	Hole Number
S4-PA/PL	20.8*23	35	17.5	/	Ф3.5	1
		500	50	200	Ф3.5	3
		1000	100	200	Ф3.5	5
		2000	100	200	Φ3.5	10

#### 4. Installation Guide

#### 4.1 Prepare for Installation

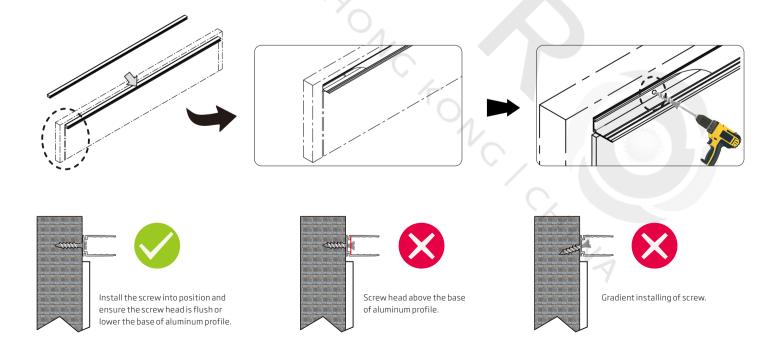






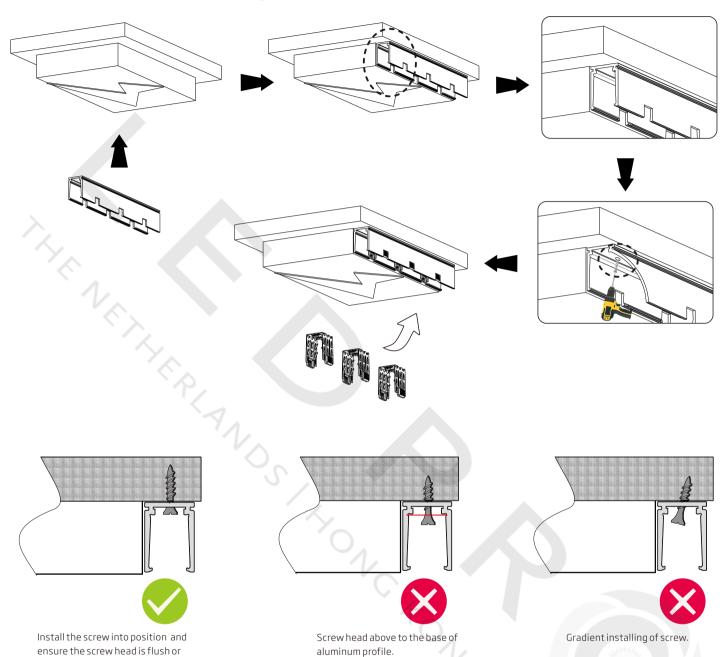
Electric Screwdriver

#### 4.2 Correct Installation of Standard Aluminum Profile



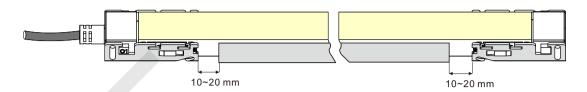
#### 4.3 Correct Installation of Self-locking Aluminum Profile

lower the base of aluminum profile.



#### 4. Requirements and Cautions for Installation of Mounting Profile

4.1 For Light with Clasp Connector Fittings (Snap Connector also refer to the following cautions)



Ensure the supply cord is not subject to mechanical stress.

Keep 10-20mm distance between the end of aluminum profile and that of aluminum mounting piece.

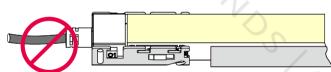




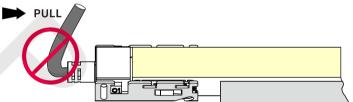
Mechanical stress on front connector cable shall be avoided.

Mechanical Stress of Front Conflector Capie Shall be avoided



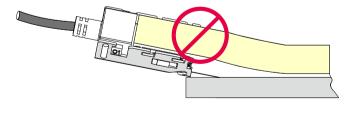


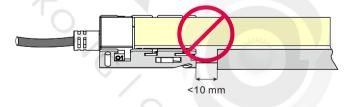
It is forbidden to curl or pull the front connector cable with excessive force.

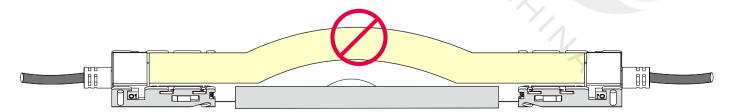


It is forbidden to let any connector aluminum mounting piece on the aluminum profile and make light deformation.

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

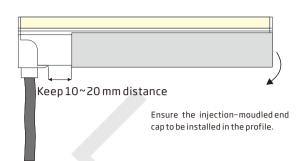


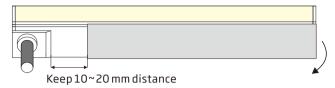






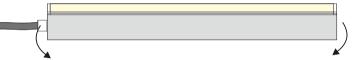
#### 4.2 For Light with Injection-molded Connector Fittings





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

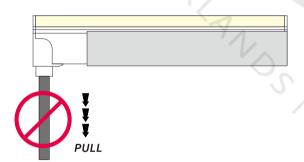
Ensure the power cable is not subject to mechanical stress at the beginning.



Ensure the injection–moudled 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 10mm is forbidden.



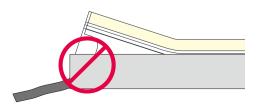
It is forbidden to curl or pull the front connector cable with excessive force.

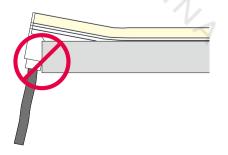


It is forbidden to curl or pull the front connector cable with excessive force



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







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.



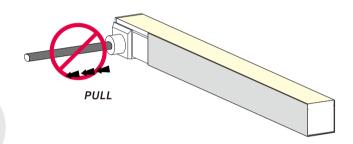


PULL

Mechanical stress on front connector cable shall be avoided.

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

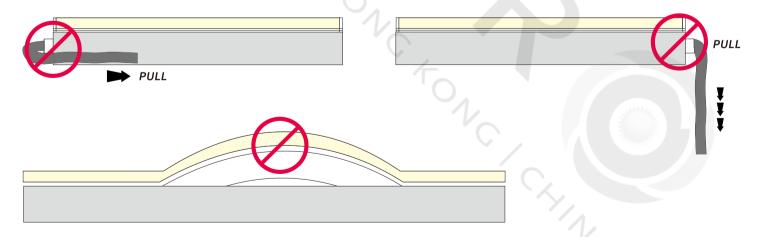






It is forbidden to curl or pull the front connector cable with excessive force.

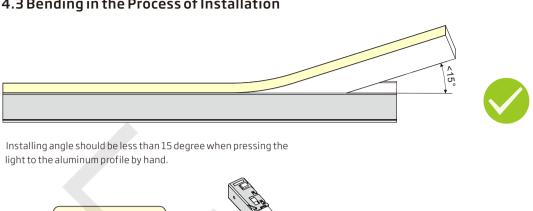
Mechanical stress on front connector cable shall be avoided.

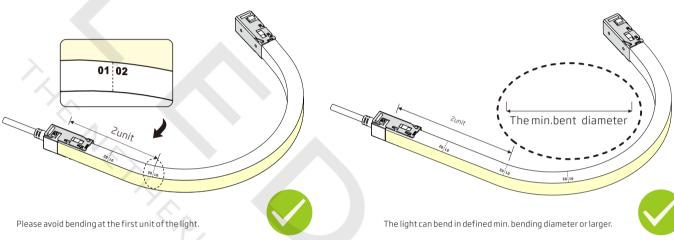


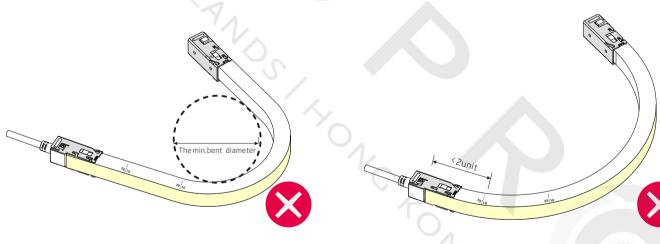
 $In stall \ the \ light \ in \ one \ direction, \ no \ matter \ what \ kind \ of \ connector \ used. \ Don't \ let \ it \ choke \ in \ middle.$ 



#### 4.3 Bending in the Process of Installation

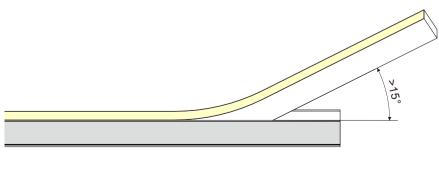






The circuit board and LEDs could be damaged if bending diameter is tighter than defined min. bending diameter.

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





## Troubleshooting

#### The whole light doesn't work.

Check power supply is plugged in, switched on and receiving power.

Check all light, dimmer or controller connections from the power supply to Neon-Flex. 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 the light with a new one.

External impact damage inside LEDs. Only use your hands to install Neon-Flex into aluminum profile.

#### Neon-Flex 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.

## Limited Warranty

Ledpro® hereby warrants, to the original purchaser, Ledpro® finished products to be free of manufacturing defects in material and workmanship for a standard period of 3 Years unless otherwise stated from the date of purchase, with an extended warranty available upon request. This warranty shall be valid only if the product is purchased from Ledpro®. During the warranty period, you are entitled to have the products repaired or replaced if the products fail to be of acceptable quality and damage under normal use. It is the owner's responsibility to establish the date and warranty terms by acceptable evidence, at the time service is sought.

Warranty is applied by the Ledpro® in Europe. Ledpro® retains the right to review the justification of the claim. The limited warranty is subjected to the following additional conditions: a. The product is properly handled, installed and maintained according to official latest instructions or manual of Ledpro® and applicable regulations and standards.

- b. Purchaser must notify Ledpro® in writing of 8D CORRECTIVE ACTION REPORT to specially state the defect in question no later than 15 days after they were detected. Acceptance of the product shall not be denied on the grounds of insignificant defects. Claims for defects notified belatedly are excluded.
- c. A copy of the purchase invoice of the concerned products must be attached to submit to Ledpro®.

This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. Parts not covered by this warranty include: fuses, external power supplies, third party items not manufactures by Ledpro®. During the period specified above, if any product covered by this limited warranty, Ledpro® determines to its satisfaction that such product failed to satisfy this warranty, Ledpro® will, at its own discretion, repair or replace the product or the defective part thereof. For purpose of clarify, "repair or replace the product or the defective part thereof" does not include any removal or reinstallation costs or expenses, including, without limitation, any labor costs or expense, shipping costs to return non-confirming products or any damages that may occur during the return of product to Ledpro®. A refund will not be provided for any warranty claim, but the purchaser may, at its discretion, require deducting the original purchase price of defective product or part from future purchase orders.

If Ledpro® chooses to replace the product and is not able to do so because it has been discontinued or is not available, Ledpro® may replace it with a comparable product. Ledpro® reserves the right to use new, reconditioned, refurbished, repaired, or remanufactured products or parts in the repair of replacement of any product covered by this limited warranty. Please note that lighting properties of replacement products may differ from the original product due to technical advancements and usage-related changes in the light flux and light color.

The warranty period is neither extended nor renewed if the product is repaired or replaced by Ledpro®.

Ledpro® reserves the right to make changes in design and/or improvements upon its products and accessories without any obligation to include these changes in any products theretofore manufactured.

#### Exclusion of Warranty:

- a. Warranty period has expired
- $b. Legal\ proof-of-purchase\ invoice\ or\ PO\ numbers\ are\ not\ provided, or\ are\ reasonably\ believed\ to\ have\ been\ forged\ or\ tampered\ with.$
- c. Damage caused by improper installation, wiring, storage, transportation, incorrect use, bending or operation not in accordance with the official latest instructions or manual.
- d. Damage caused by unauthorized modification, dissection, soldering, or any deliberate damage or losses.
- e. Damaged caused by the carrier in-transit, which will be handled under separate terms (Purchaser's designated consignee is responsible for all eight claims; Ledpro® will be available to assist in such matters if proving forward service).
- f. Accessories or attachments to the product that are not supplied or approved by Ledpro® and led to the damage.
- g. The product is not used for the purpose for which designed or if any repairs, alterations or maintenances are made by any person not authorized by Ledpro®.
- h. Product silk printed serial numbers, crimped waterproof ring show signs of tampering or removal.
- $I. Conditions demonstrating \, mis application, \, under/over \, voltage \, situations, \, extreme \, environmental \, conditions \, beyond \, those \, defined \, in \, the \, product \, specification.$
- $j. A brasions \, and \, natural \, appearance \, variations \, (i.e. \, dusty, fouling, \, etc.) \, that \, do \, not \, affect \, the \, function \, of \, the \, product.$
- $k.\,Direct\,or\,indirect\,losses\,caused\,by\,force\,majeure\,(i.e.\,vandalism,\,natural\,disaster,\,warfare,\,acts\,of\,terrorism,\,riots,\,fire,\,explosion,\,etc.).$

#### Freight

## Appendix

#### 1. Product Naming Convention

Not applicable. See our website www.ledpro.nl

#### 2.Correlated Color Temperature (CCT)

#### **ANSI STANDARD**

(2700-6500K)

**Nominal CCT Categories** 

Nominal CCT	Target CCT and tolerance(K)	Target Duv and tolerance
2700K	2725 ± 145	$0.000 \pm 0.006$
3000K	3045 ± 175	$0.000 \pm 0.006$
3500K	3465 ± 245	$0.000 \pm 0.006$
4000K	3985 ± 275	$0.001 \pm 0.006$
4500K	4503 ± 243	$0.001 \pm 0.006$
5000K	5028 ± 283	0.002 ± 0.006
5700K	5665 ± 355	0.002 ± 0.006
6500K	6530 ± 510	$0.003 \pm 0.006$
Flexible CCT	$T^{2)}+\Delta T^{3)}$	DUVT⁴)±0.006

#### Remark:

- Six of the nominal CCTs correspond to those in the fluorescent lamp specification 2700K,3000K(Warm White),3500K(White),4100K(Cool White),5000K and 6500K(Daylight),respectively.
- 2). T is chosen to be at 100K steps (2800,2900,...,6400K), excluding, hose eight nominal CCTs listed in Table 1.
- 3).  $\Delta T$  is given by  $\Delta T = 0.0000108 \times T^2 + 0.0262 \times T + 8$ .
- 4). Duv is given by Duv=57700×(1/T)2-44.6×(1/T)+0.0085

#### 3. Chart of Recommended Feed Cable Length According to Power Consumption

This chart only applicable to input voltage of 24V DC

	.,		, - <sub>F</sub>											
WattS of Light	22AWG/0. 34mm²	20AWG/0. 53mm <sup>2</sup>	18AWG/0. 82mm <sup>2</sup>	17AWG/1. 04mm <sup>2</sup>	16AWG/1. 38mm <sup>2</sup>	14AWG/2. 07mm <sup>2</sup>	12AWG/3. 29mm <sup>2</sup>	10AWG/5. 62mm²						
10W	36m	60m	100m	120m	140m	240m	400m	600m						
20W	18m	30m	50m	60m	70m	120m	200m	300m						
30W	12m	20m	30m	38m	45m	80m	130m	200m						
40W	8m	15m	22m	28m	35m	60m	95m	140m						
50W	6m	12m	18m	22m	28m	48m	75m	105m						
60W	5m	10m	15m	18m	22m	36m	60m	88m						
70W	/	8m	12m	14m	18m	30m	50m	72m						
80W	/	6m	10m	11m	14m	24m	40m	58m						
90W	/	4m	7m	8m	10m	18m	30m	45m						
100W	/	/	5m	6m	7m	12m	22m	32m						
110W	/	/	3m	4m	5m	8m	15m	22m						
120W	/	/	2m	2.5m	3m	0m	8m	12m						

Note

- 1.Please adhere to parameters in below chart, feed cable length longer than what specified here will create voltage drop and eventually affect the lumen output of light.
- $2. The \ 0.3 m \ feed \ cable \ length \ attached \ to \ front \ connector \ is \ not \ included \ in \ this \ cart$
- 3. Feed cable length over 10m is NOT recommended unless special circumstances, especially for pixel addressable lights.

#### 4. Loading Chart

Type.	Rated Power /mtr		Power Supply									
туре.	rype. Rated Fower / IIII	35w	60w	75w	80w	100w	120w	150w	185w	240w	320w	
S4	6.5w/7.2w/8w	3m	6m	7.5m	8m	10m	12m	15m	18m	24m	30m	
	10.6w/11w/12w	2m	3.5m	4.5m	5m	6m	7m	10m	12m	14m	20m	
En	ergizing way		DC inp	out01/0	12				DC input	01	02	DC input

2. For example: it is recommended to use one 80 W power supply loading maximum 8 m light (7.2 w/m) or maximum 5 m light (12 w/m) by energizing the light one end.

