



**NORTHERN
LIGHTING**



SPECIFICATION

**NORTHERN
LIGHTING IP66
ENDURANCE Series
LED Light**



LM79
LM80

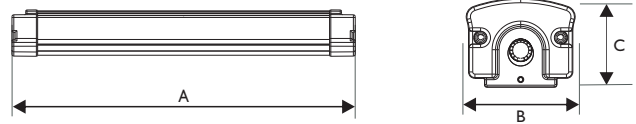
SPECIFICATION

NORTHERN LIGHTING IP66 LED Light

Features

- Unique patent design, TUV-GS, UL, DLC, ERP, CE certified.
- Water-proof, Dust-proof, Damp-proof, Pressure-proof.
- High luminous efficiency 100 - 115LM/W.
- Maximum 3M Long for single product .
- Excellent heat dissipation support stable quality.
- Convention installation for linking in series.
- Low light decay, L70=50,000 Hours.
- High impact test, IK09.
- Long lifespan 50,000 hours.
- Energy saving up to 80%.
- 5 years warranty.

Dimension



length	A		B		C
	Min.mm	Min.mm	Max.mm	Max.mm	Min.mm
4ft	1200	1200	91	92	74
2ft	600	600	91	92	74

Variations

- 1:A65:A-Aluminum Version; 65-IP65
- 2: Cover Type (S: Striped cover, F :Frosted cover)
- 3: Length , (2:2ft 60cm, 4:4ft 120cm, 5:5ft 150cm)
- 4:Power consumption (20:20w, 30:30w,40:40w, 50:50w, 60:6 0w)
- 5: Color Temperature (W:wwarm white, P: Pure white, C:cold white)
- 6: Function Types (B:Battery ,Emergency function , S: Sensor, microwave or PIR sensor , D:0/1-10V dimmable, T:Triac dimmable L: DALI dimmable)

Temperature Characteristics T-ambient 40° C

Temperature
 Operating: -20 ~ +50°C
 Storage: -40 ~ +85°C

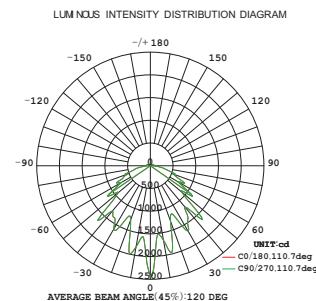
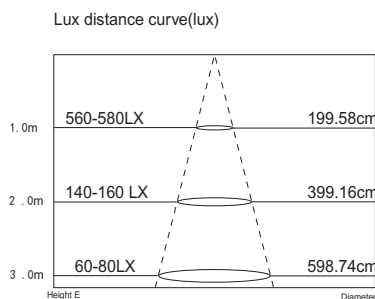
Application

- Parking place
- Tunnel / Corridor / Gallery
- Railway / Bus / MTR Station
- Warehouse / Factory
- Airport
- Exhibition Hall
- Supermarket
- Gas station

Data Sheet

Item code	Input Voltage	Power	LEDs	Working	PF	Luminous Flux	Luminous Efficiency	CRI	THD	Power Efficiency
NL-A65F4-40-X	100-240V/277V	40W	240	DC34-40V	>0.95	4000LM	100LM/W	>80	<15%	>0.88
NL-A65S2-20-X	100-240V/277V	20W	120	DC34-40V	>0.95	2000LM	100LM/W	>80	<15%	>0.88

Optical Parameter



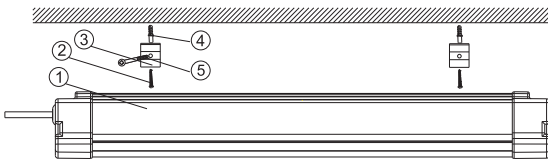
Item code	1m	2m	3m
NL-A65F4-40-X	1150-1170	290-310	130-150
NL-A65S2-20-X	740-760	180-200	80-100

Item code	Beam Angle
NL-A65F4-40-X	120
NL-A65S2-20-X	120



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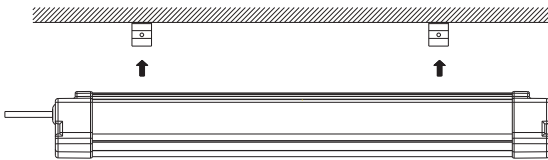
Ceiling Mounted Installation



① Drill $\Phi 6\text{mm}$ holes on the roof/wall.



③ Ceiling Installation

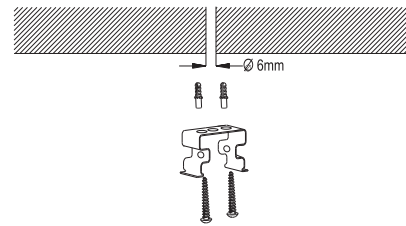


Standard parts list

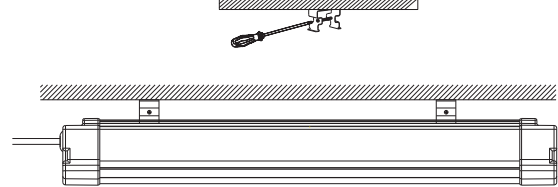
1	LED Tri-proof Light	1PC
2	U-shape Brackets	2PCS
3	Self-tapping screws	4PCS
4	Slotted plastic screws	4PCS
5	PM4X40 screws	2PCS

*

② Insert $\Phi 6\text{mm}$ expansion pipe into the hole and fix the bracket by M4 screw.

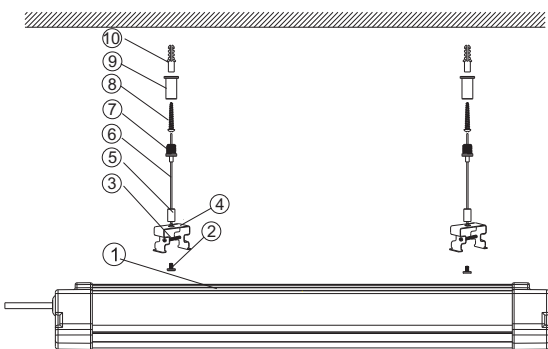


Tighten the screw with screwdriver

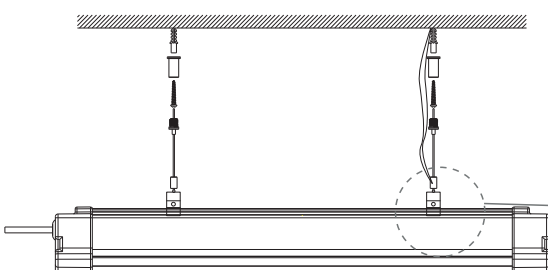


Suspended Installation

① Suspended way.



② Hanging Installation.

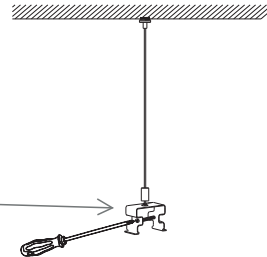


Spare Parts

1	LED Tri-proof Light	1PC
2	Ring washer	2PCS
3	Suspension fixing screws	2PCS
4	U-shape brackets	2PCS
5	Suspension fixing nuts	2PCS
6	Suspension wires	2PCS
7	Suspension fixing bushings	2PCS
8	Self-tapping screws	2PCS
9	light fixing bushing cap	2PCS
10	Slotted plastic screws	2PCS

* Suspended accessories need to be ordered additionally.

Tighten the screw with screwdriver.



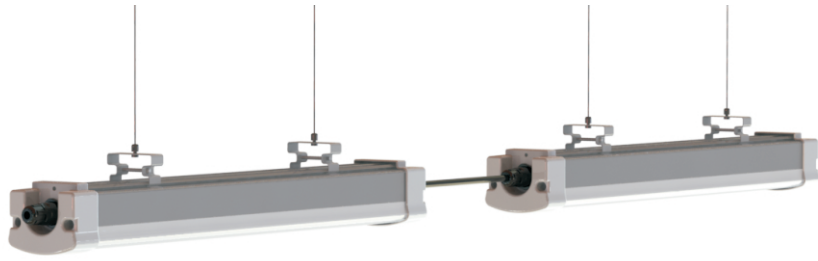
Conventional UL/VDE standard wire for 18 AWG / 3 x 0.75MM²



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Series Connection



Optional Connector A:



1: Insert the wire into the terminal then use screw locking it.



2: Put the protector on the terminal.

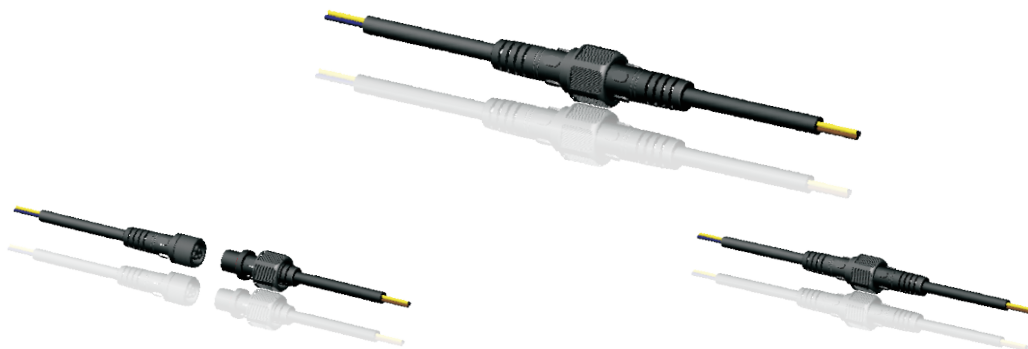


3: Put on waterproof set.



4: Lock the waterproof sets tightly.

Optional Connector B:



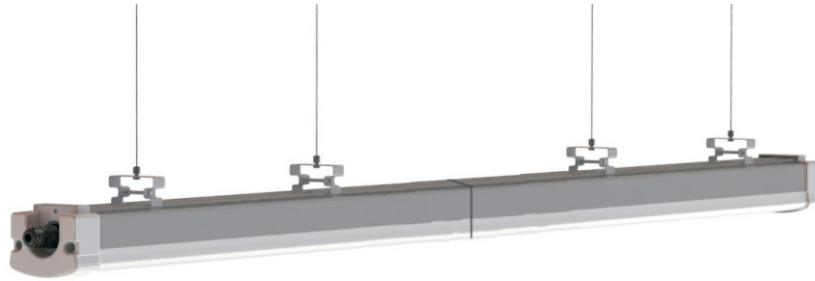
1. Joint Female and Male connector together.

2. Lock the waterproof cap tightly.



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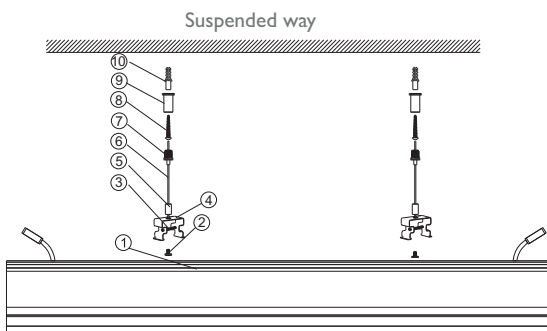
Seamless Connection



Available to be connected in series by smart aluminum strip.

Seamless Connection Installation

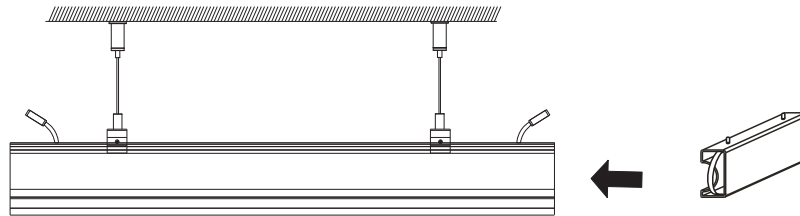
- ① Hanging up the light (without end cap) with suspended accessories.



Spare Parts

1	LED Tri-proof Light	1PC
2	Ring washer	2PCS
3	Suspension fixing screws	2PCS
4	U-shape brackets	2PCS
5	Suspension fixing nuts	2PCS
6	Suspension wires	2PCS
7	Suspension fixing bushings	2PCS
8	Self-tapping screws	2PCS
9	light fixing bushing cap	2PCS
10	Slotted plastic screws	2PCS

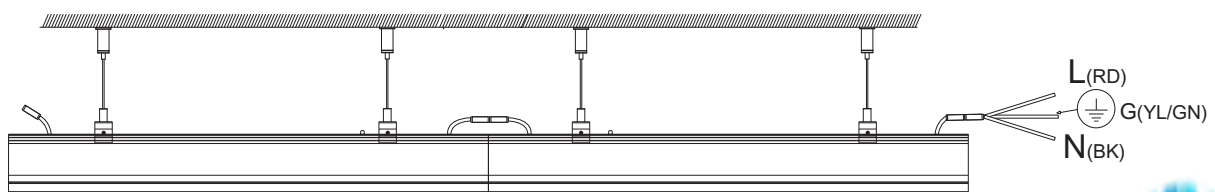
- ② Insert the smart aluminum strip into the light aluminum housing till the ball buckle is locked.



- ③ Fix another light (without end cap) onto the other end of smart aluminum strip till the ball buckle is locked.



- ④ Connect the wires correctly.



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The maximum number of lamps for Linking in series

Item code	Size	Power	voltage	Max. Series Connection Q'TY	voltage	Max. Series Connection Q'TY
NL-A65X4-40-X	1200*91*74	40W	110V	13pcs	220V	27pcs
NL-A65S2-20-X	600*91*74	20W	110V	27pcs	220V	54pcs

Wiring Diagram

Non Dimmable Tri-proof LED Lamp



(EU market-3 pole cable) (US market-3 pole cable)

L:	Brown	Black
N:	Blue	White
E:	Yellow-Green	Green

TRIAC Dimmable Tri-proof LED Lamp



(EU market-3 pole cable) (US market-3 pole cable)

L:	Brown	Black
N:	Blue	White
E:	Yellow-Green	Green

0/1-10V Dimmable Tri-proof LED Lamp



(EU market-5 pole cable) (US market-5 pole cable)

L:	Brown	Black
N:	Blue	White
E:	Yellow	Green
DIM+:	Red	Red
DIM-:	Green	Orange

DALI Dimmable Tri-proof LED Lamp



(EU market-5 pole cable) (US market-5 pole cable)

L:	Brown	Black
N:	Blue	White
E:	Yellow	Green
DA:	Red	Red
DA:	Green	Orange



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