



## Starline T31D Linear High Bay

80W / 120W / 150W / 200W / 240W / 300W

Highly energy efficient - up to 160 lm/W

### Features

Highly energy efficient - up to 160 lm/w

High Luminous flux - up to 42000 lm

IP65 and IK10 protection

Installation heights up to 30 meters!

5 Years warranty

### Options

Various beam angle options: 30°, 60°, 90°, 30°x70°, 40°x130° Optional

Optional Mean well driver available

1-10V dimmable and DALI available

Microwave motion and PIR sensor available

Optional emergency power supply

Zigbee is available

### Area of application

Factories and warehouses

Loading areas and freight yards

Exhibition & showrooms

### Certificates

CE, RoHS

**The** Starline T31D Linear High Bay is a powerful and energy-efficient LED light fixture available from 80W to 300W. It was designed for tall halls, high warehouses, loading areas and freight yards. Various lenses for different beam angles enable this linear high bay to be efficiently used in heights up to 30m. Its weatherproof aluminum alloy housing and the high quality polycarbonate lenses make it dust tight as well as water and impact resistant for use in harsh environments. This extremely robust light can be flexibly configured for use in a very wide application range. suspended or surface mounted installation will provide a perfectly homogeneous light distribution.

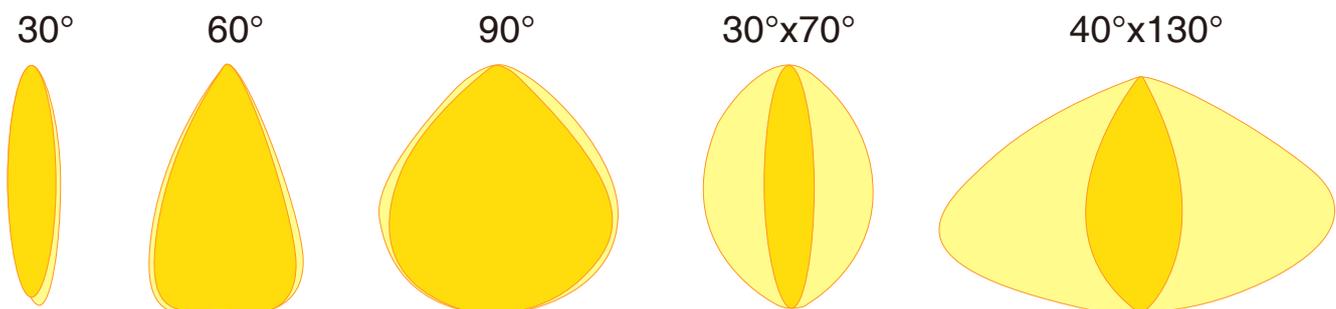


## Beam Angles

The illustration below shows the different light distributions for our beam angle options. The symmetric beam angles are ideal for wide and open areas such as production halls or storage areas with lower racks. The light gets distributed very evenly across a circular area below the fixture.

For warehouses with high racks the asymmetric beam angles are the better choice. The emitted light is precisely spread out along the aisles without wasting it on top of the racks.

With currently 5 different beam angle option a fitting solution for every area of application can be easily found.



## Basic Specifications

Standard lumen (140lm/W)

Model	Nominal wattages (W)	Nominal voltage	Rated luminous efficacy (lm/w)	Nominal luminous flux (lumen)	Beam Angle	LED Quantity	CRI
T31D-80W01	80W	AC100~277V 50~60Hz	140±10	11200±800	30°\60°\90°\30°70°\40°130°	112 PCS EMC 3030	>70
T31D-120W02	120W		145±10	17400±1200		224 PCS EMC 3030	
T31D-150W02	150W		140±10	21000±1500		224 PCS EMC 3030	
T31D-200W03	200W		145±10	29000±2000		336 PCS EMC 3030	
T31D-240W03	240W		140±10	33600±2400		336 PCS EMC 3030	
T31D-300W04	300W		140±10	42000±3000		448 PCS EMC 3030	

Lumen Plus (160lm/W)

Model	Nominal wattages (W)	Nominal voltage	Rated luminous efficacy (lm/w)	Nominal luminous flux (lumen)	Beam Angle	LED Quantity	CRI
T31D-80W02	80W	AC100~277V	165±5	13200±400	30°\60°\90°\30°70°\40°130°	224 PCS EMC 3030	>70
T31D-150W03	150W	50~60Hz	160±5	24000±750		336 PCS EMC 3030	

## Electrical data

Operating frequency	47-63HZ	Available light colors	warm white;natural white; daylight white
Type of current	AC100-277V\100-350V\277-480V	Available color temperatures	3000K;4000K;5000K;6000K
Power factor λ	>0.9	Color rendering index Ra	>70
Efficiency in %	>90%	Standard deviation of color matching	<5
Start time (0.2s / 0.5s / ... )	0.1S	UGR (Unified Glare Rating)	<27
Warm-up time to 60 % (1.5s / 2s / ... )	0.5S	Available beam angles	30°/60°/90°/30*70°/40*130°

## Photometrical data

## Standards & Certification

Type of protection	IP65	Heatsink temperature	5~+70 °C
Tested dielectric strength	3.75KVac	Ambient temperature	-30~+55 °C
Safety features	Open circuit protection; Short circuit protection; Overvoltage protection.	Storage temperature	-40~+80 °C
Certificates	CE,RoHS		
Energy efficiency class	A+ & A++		

## Temperatures & operating conditions

## Lifespan

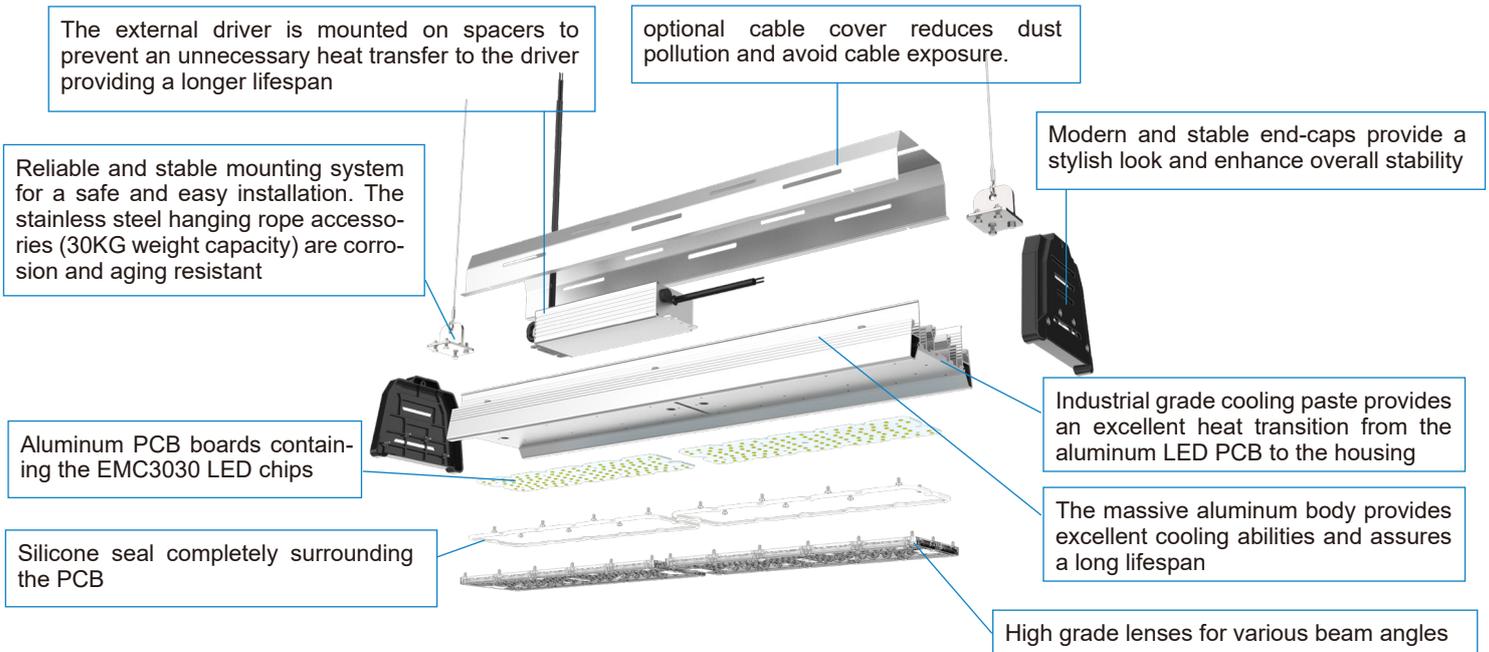
Rated nominal Lifetime	5 Years	Base/Socket	Directly wired
Switching cycles	100,000 times	Dimmable	1-10V dimmable,DALI dimmable
Lumen maintenance at e.o.l.	70%		

## Features/Capabilities and additional product data

## Packing Information

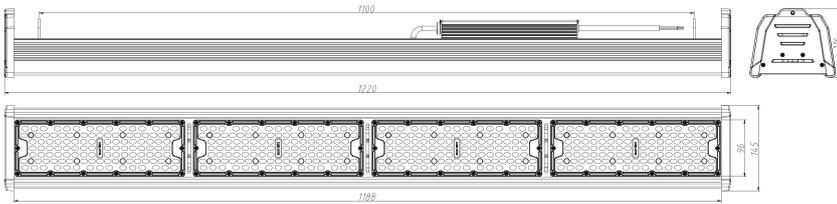
Model	Dimension(MM)	CTN SIZE(CM)	QTY/CTN	Net Weight/pcs(kg)	Gross Weight /CTN(kg)
T31D-80W01	320*145*116	37*34*17	2PCS	2.6	6.8
T31D-80W02/ 120W02/150W02	620*145*116	67*34*17	2PCS	4.2	10.2
T31D-150W03/ 200W03/240W03	920*145*116	97*34*17	2PCS	5.8	14.5
T31D-300W04	1220*145*116	127*34*17	2PCS	7.8	19.5

## Exploded drawing

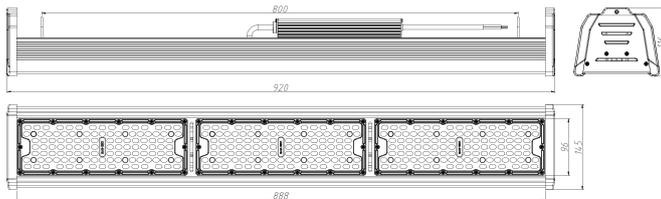


## Dimension (mm)

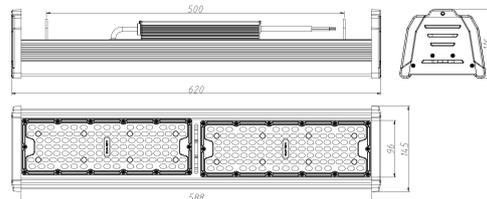
T31D-300W04



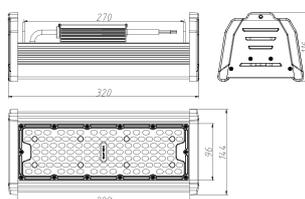
T31D-150W03/200W03/240W03



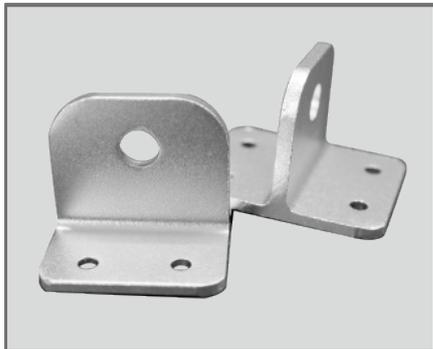
T31D-80W02/120W02/150W02



T31D-80W01



## Included accessories

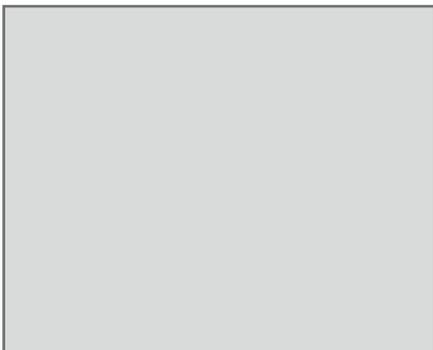


These corrosion and aging resistant brackets are included. The position can be adjusted by loosening the screws.



These stainless steel hanging ropes are also included. Its weight capacity is 30Kg.

## Optional accessories



This linear High bay series is available with 1-10V dimmable drivers. Upon request we can also provide DALI compatible drivers.



The Optional Merrytek microwave motion sensor has a detection range of around 15m and an IP grade of IP65. Pricing upon request.



Optional 12V Shark Microwave sensor or PIR sensor available, the plug-in cable connection design makes it easy to install and replace sensor. Remote control is very convenient to dim the light upon different request.



We can provide emergency-power-sup-plies for up to 180 minutes emergen-cy-lighting-time for this product. Technical details and pricing upon request.



We can provide Zigbee controller & receiver for this product. Technical details and pricing upon request.



These optional brackets allow for wall or ceiling installation where the installation angle needs to be adjusted.

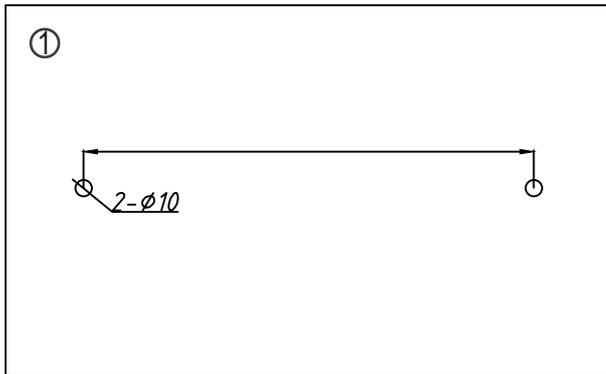


optional cable cover reduces dust pollution and avoid cable exposure.

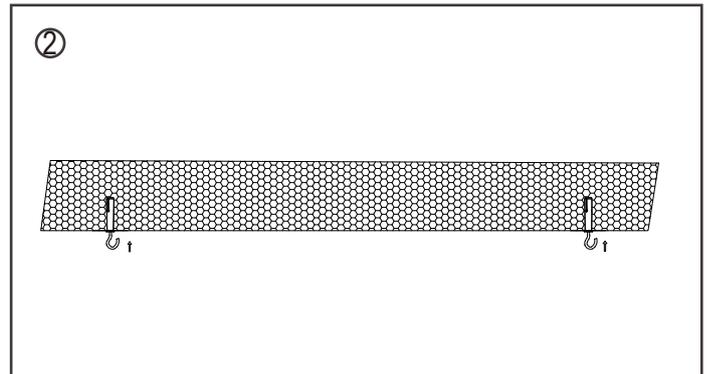
## Application and safety notes

- Carefully read and follow all warnings and instructions before installing or servicing the luminaire.
- The installation should be done by an individual familiar with the construction and operation of the luminaire.
- The installation of this luminaire must be in accordance with national and local building and electrical codes.
- The product must not be damaged or operated in a damaged condition.
- This luminaire must be directly wired on line. Any ballast or other power device previously used with the replaced luminaire must be removed.
- Between the luminaire and any possibly flammable material must be an appropriate safety space (at least 20cm).
- The luminaire must not be covered with heat insulating materials.
- Always provide proper ventilation around the luminaire and do not exceed the maximum ambient temperature.
- Compared to traditional lights the characteristic light distribution of this LED luminaire may differ. In order to be sure to meet your lighting requirements a photometric check of the installation is recommended.

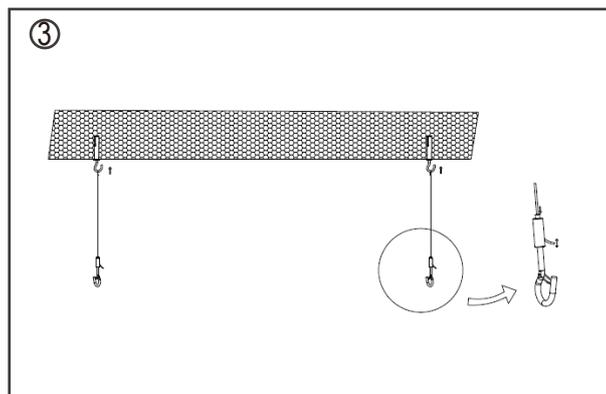
## Installation Instructions for suspended use



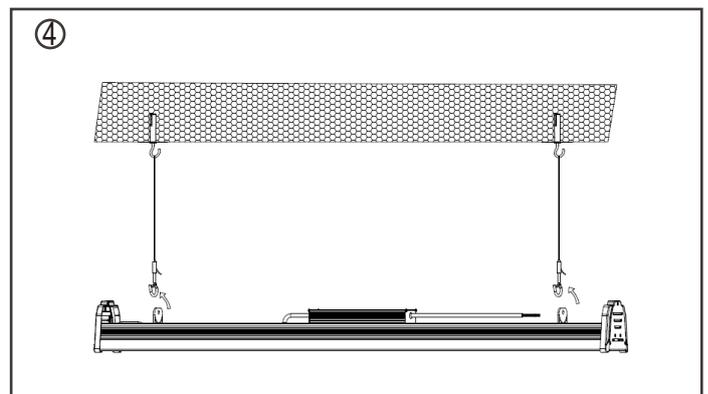
Adjust the spacing between the holes according to your installation situation



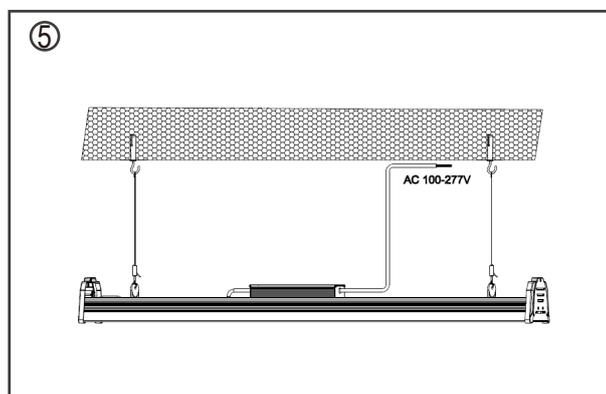
Fix the expansions screws in the holes you prepared



Adjusting the length of ropes

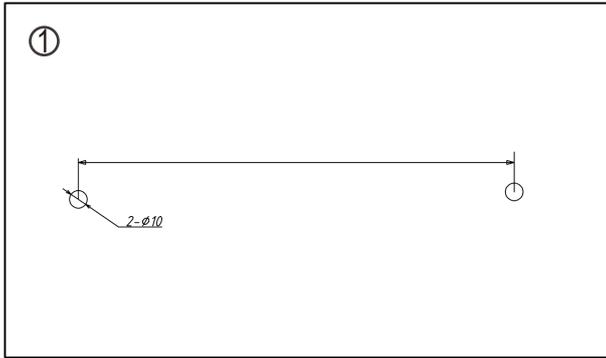


Connect the fixture to the rope and make sure the safety

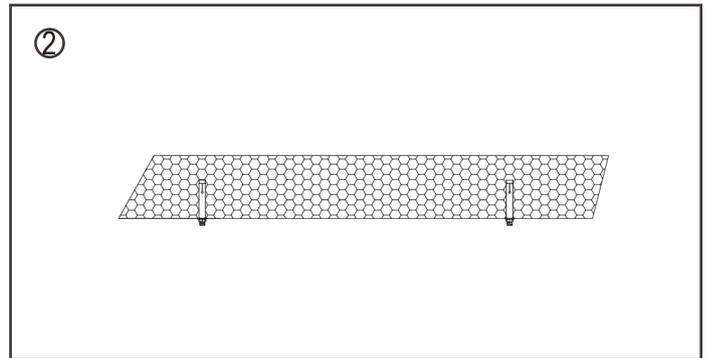


Connect the power

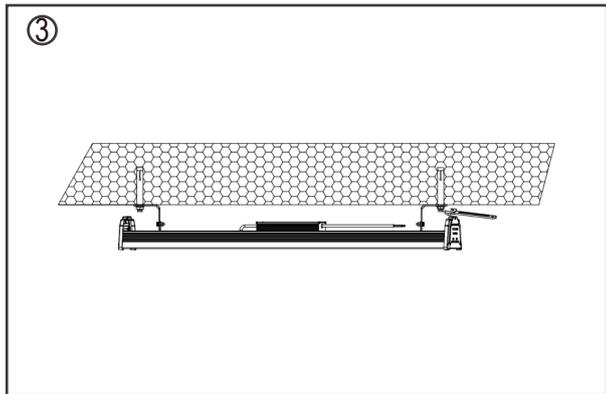
## Installation Instructions for Surface mounting



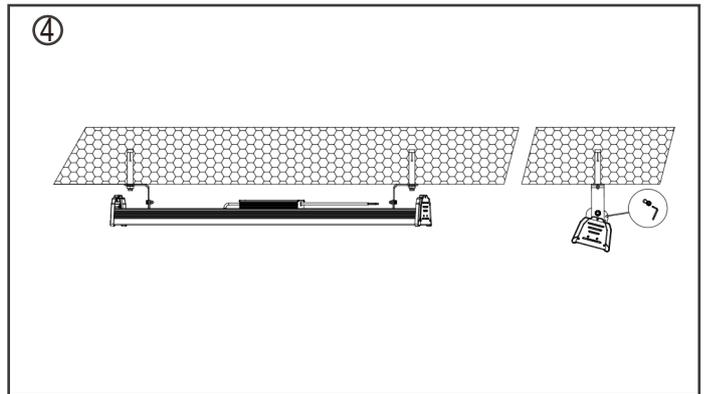
Adjust the spacing between the holes according to your installation situation



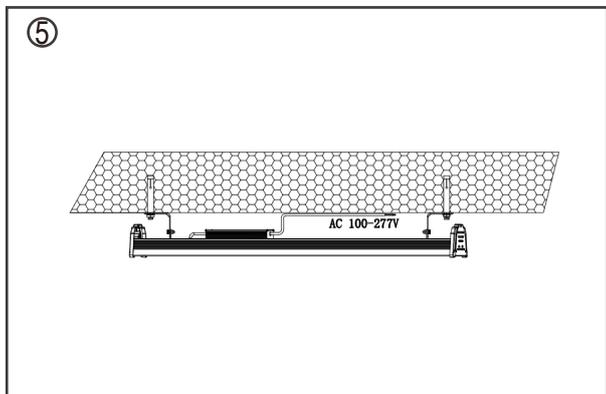
Fix the bolts in the holes you prepared



Screw the fixture to the ceiling



Adjusting it to the suitable beam angle, and then tighten the screw



Connect the power

## Maintenance

- To avoid injuries, disconnect power to the light and allow the unit to cool down before performing maintenance.  
**Warning:** No user serviceable parts inside. Risk of electric shock. Removal of the cover will void the warranty.
- Perform visual, mechanical and electrical inspections on a regular basis. We recommend routine checks to be made on an annual basis. Frequency of use and environment should determine this.
- The PC cover should be cleaned periodically as needed to ensure continued photometric performance. Clean the PC cover with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap or a liquid cleaner. Do not use an abrasive, strong alkaline or acid cleaner as damage may occur.
- Inspect the cooling surfaces and fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.