

AOD AL-HB series LED High Bay light breaks the limitation of conventional high bay light's structure with smooth lines and compact structure.

The unique design for heat sink increases the surface for heat dissipation and creates the pass for air convection. The hollow out edge design ensures the effect of the light and also prolong the maintenance cycle.

High brightness LED lamps are adopted to make AOD AL-HB LED high bay light. The LED lamp efficacy is up to 130lm/W. The junction temperature is lower than 65°C, effectively controlling the light decay and prolonging the lifetime more than 50,000 hrs.

The usage of second lens assures the uniformity of illuminance and chromaticity on the ground surface. And three kinds of light distribution (WA/ NA/ HR) can be chose for different lighting environment. For WA, the recommended height it 4~6meters, for NA, 7~10meters, for shelf space, we recommend you to chose HR type.

The high reliable and intelligent driver and professional heat sink design technology assures the working temperature of the electronic components is not higher than 60°C, the power efficiency is very high, life time is more than 50,000 hrs. The intelligent function of electronic anti-reverse connection and automatic switch off which could be caused by the higher or lower supply voltage assure the safety of the light, and the perfect protection of over current, overvoltage and overheat function enhance the reliability. Meanwhile, such electronic driver design also provides several flexible and advanced control functions such as timer control, temperature control, photo sensor control, acoustic sensor control and internet control etc.

Hook or Ring is available for you to choose for installation. And we can also upgrade the IP class from IP54 to IP65 for strictly installation circumstance.

AOD AL-HBB LED high bay light can be used in many kind of place such as workshop, warehouse, stadium, supermarket, airport, bus station, gas station and so on.



General Parameters

Item	Symbol	Min.	Typical	Max.	Conditions	Notes
Working voltage (V)	Vin	100		277		
Working frequency (Hz)	f	47		63		
Power Factor	PF	0.95			AC220V, 25°C	Full load running
Start times (ms)				5000	AC220V, 25°C	Soft start controlled run by program
CCT (K)	CCT	3500	-	6500		optional ¹
CRI	Ra		70			
Standard Luminaries Efficacy (η)	lm/W		90			CCT: 5000K~6000K



Higher Luminaries Efficacy (η)	lm/W		100			CCT:5000K-6000K
Working temperature ($^{\circ}\text{C}$)	Temp	-35	-	45		
Adaptive Humidity (%)	RH			90		
lifetime (hrs)	MTTF		50000		AC220V, 25 $^{\circ}\text{C}$	influenced by ambient conditions
IP Class	IP Class	IP54/IP65 ²				
Net Weight	Weight	5.3				Not include the package
Housing Color		White/Black/ Metal Silver				optional
Interface		hook or ring				optional

Notes: 1. AOD Standard Color Temperature: 4000 \pm 250K, 5700 \pm 350K. Other CCT can be Custom-made.

2. IP65 should be custom-made. Please do not install in the outdoor areas without any anti-sunshine and anti-rain equipments.

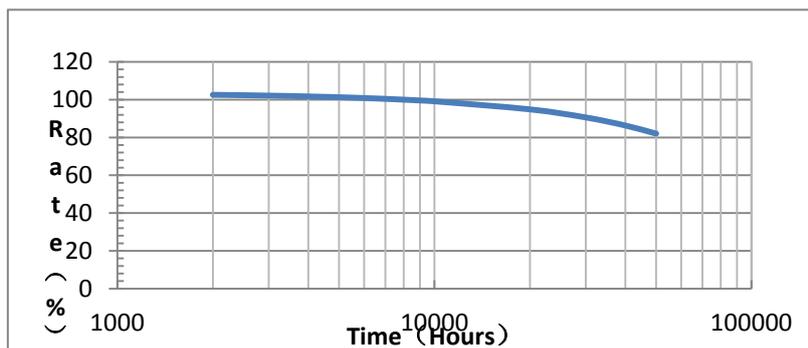
Characteristic Parameters

Model No.	Rated Power Consumption ¹ (W)	Rated Luminous Flux ² (lm)		Net Weight (kg)
		Standard	Higher	
AL-HB06	60W	5400	6000	5.0kg
AL-HB08	80W	7200	8000	5.0kg
AL-HB10	100W	9000	10000	5.1kg
AL-HB13	130W	11700	13000	5.2kg
AL-HB15	150W	13500	15000	5.3kg
AL-HB18	180W	16200	18000	5.5kg

Note: 3. The tolerance of power is \pm 10%. Other power consumption can be custom-made.

4. The tolerance of luminous flux is \pm 10%. The luminous flux for warm white products would be lower.

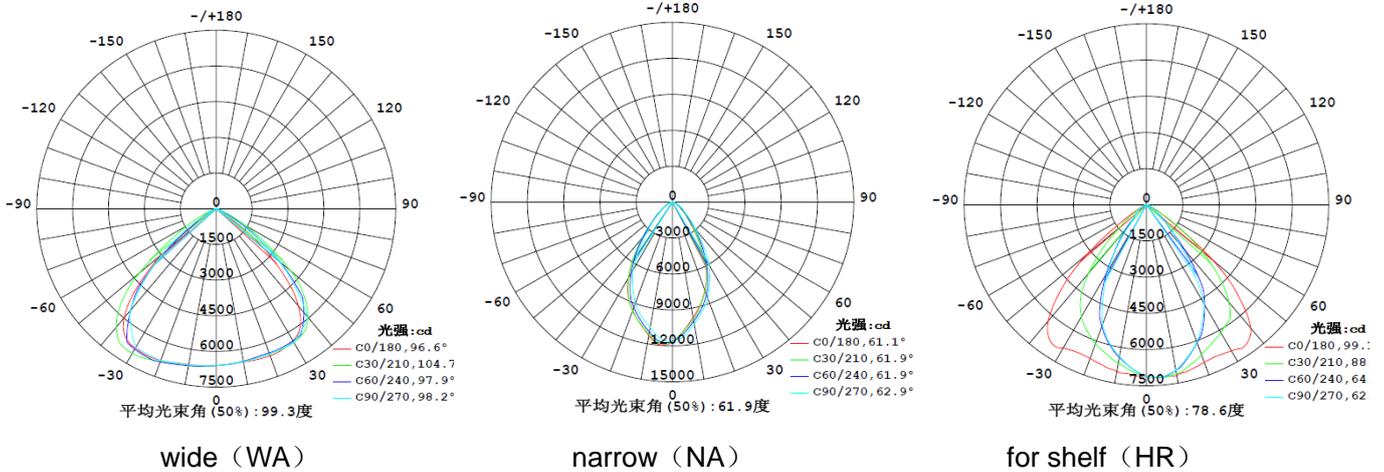
Luminous Flux Maintenance Chart





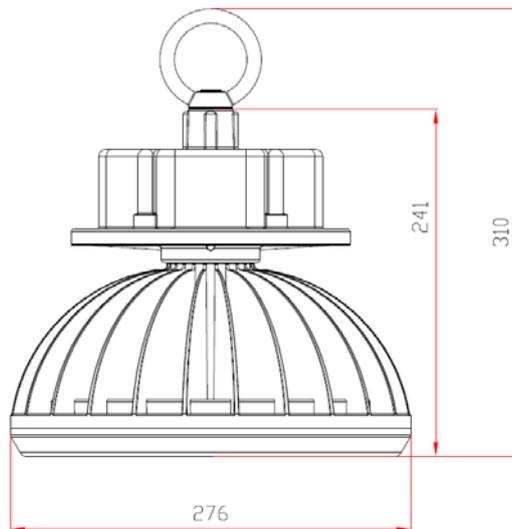
Remarks: This chart shows the calculated result after testing many such LED high bay light which exactly reflects luminous flux degradation of AOD LED high bay light in use. It is noticeable that natural environment conditions such as weather, temperature and so on can affect illumination intensity to some degree in actual testing. But in all, the maintaining luminous rate of our street lights is above 95% after working for 3 years without maintenance.

Light Distribution Curve



Note: We can help you to choose the best light distribution according to the real road condition by simulation.

Structural Dimensions

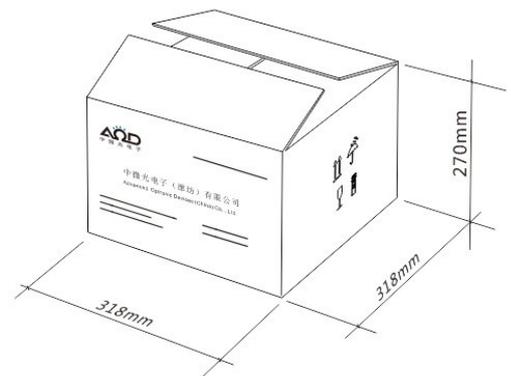


Packing Dimension

The packing dimension is showed on the right.

AOD LOGO, company name (in Chinese and English version), address and contact information of Advanced Optronic Devices (China) Co., Ltd are printed on the carton as well as the marks of transportation and storage requirements.

Each carton contains one product specification and one usage introduction. Please inspect the products whether it is in perfect order, and check whether the documents and accessories are completely ready when opening the package.



Quantity per carton: 1 piece

Gross Weight per carton: 6.8 Kgs



Installation Instructions

1. Tri-core shield sleeve wire with standard 60245 IEC57(YZW3x1.0),OD Φ8~10mm is adopted, the brown wire of which connects the live wire, the blue one connects the neutral wire and the yellow-green one connects the ground wire.
2. Insulation and waterproof treatment must be done at the joint of wires after the electrical connecting
3. Assuring the LED light works under the rated voltage, otherwise the non-restorable damage will be made once the supply voltage is beyond the working voltage range.

Attention: 

1. The ground wire must be safely earthed to guarantee the reliability!
2. The joint of wires must be covered with insulating tape and be waterproof!
3. Screws must be installed firmly to avoid the light drifting!
4. The supply voltage must not be beyond AC305V. Otherwise the impossibly repaired damage will be caused.
5. The light should be scraped immediately if the external soft cables or soft wires damaged for they could not be replaced.
6. Please change the protective glass if it is broken with 5mm thick CCC approved temper glass. 

After Sales Services

If you have any questions or problems in the process of unpacking, installation and use, please contact our Customer Service Department. We will respond within 2 hours, and if necessary, we will promptly send our maintenance professionals to reach your site as quickly as possible to solve your trouble and restore to the normal working condition.

AOD takes guarantee responsibility unless otherwise specified in the following circumstances:

- ✧ The breakdown or the damage is caused by incorrect installation, failure operation or use under the Not-specified working conditions.
- ✧ The damage is caused by accident, abuse or misuse.
- ✧ The breakdown or the damage is caused by customers' unsuitable safekeeping or transportation.
- ✧ The breakdown or the damage is caused by customers' disassembly or change the spare parts to which are not approved by AOD.
- ✧ The breakdown or the damage is caused by man-made or natural disaster.

Customer Service Center: +86-536-2221111

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