

Balco.200Watt LED High Bay Light Energy efficiency through

innovative design.

Key Features

Advantages & Applications

Housing

Protection ratings & Specific

Model variants & Technical

Lighting performance & Dist

Installation

Microwave Sensor Control

Packing

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01

Key Features

- Powder-coated Die-cast aluminum housing
- Galvanized steel hook and safety cable.
- High lumen efficiency of 170lm/W LED SMD Arrays.
- Ring-bolt mounting accessory included
- Instant start, no re-strike delays.
- Easy-install fitting for fast, effortless retro-fitting.
- Ribbed PC lens to reduce glare, Low optical flicker
- IP65 rated wet location,IK08 impact resistance
- 5 Years Replacement Warranty.



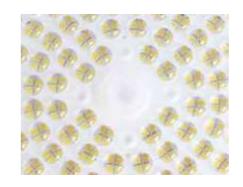
Detail:



LED POWER SUPPLY

- A variety of drivers are available.

- 5 years warranty



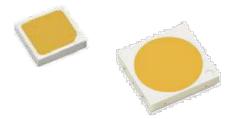
RIBBED PC LENS DESIGN

- Optional light distribution curveavailable with optics 60°/90°/120°

- High efficiency LED Type source.



- IK08 impact resistance



HIGH EFFICIENCY LED

- SMD2835 & SMD3030 LED option - 150lm/W LED SMD Arrays



ADC12 ALUM HEAT SINK

- Powder-coated Die-cast aluminum housing,good heat radiation & low temperature.



IP65 WATERPROOF - IP65 Rated ,wet location

02 Advantages&Applications

An optimised and fully certified LED lightingsolution that provides a cost effective and fastreturn on investment.

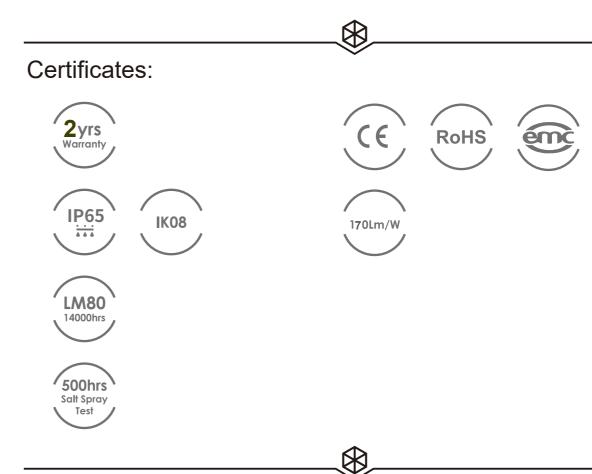
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Advantages:

- 01 High intensity marine grade, die-cast aluminium body with an IK08 impact grade
- 02 High product reliability by applying 13 steps painting process.
- 03 High efficiency coating. Paint and metal parts successfully passed the 500 hours salt spray test.
- 04 Available with Electrical Protection Class I
- 05 Cost-effective and efficient lighting solution for a fast return of investment.
- 06 2 sizes for flexibility
- 07 Easy installation and maintenance
- 08 Programmable Drivers Smart-ready

Characteristics:

| enal deteriores. | |
|-------------------------------------|---|
| 01 Power consumption | 200W |
| 02 Typical Luminaire output flux | 170Lm/Watt |
| 03 Colour temperature | 6000K |
| 04 CRI | CRI70, CRI80 available on request |
| 05 LED Chip | SMD 2835 / 3030 |
| 06 Nominal voltage | AC180-305V, 50/60Hz |
| 07 Driver Brand | Kinlights OEM |
| 08 Surge Protection | 4KV&6KV |
| 09 Smart Control Options | Dimming/ Motion sensor |
| 10 Product IP Class | IP65 |
| 11 Material | Die cast aluminium & PC |
| 12 Housing Colour | Black/ Other colours available on request |
| 13 Installation options | Hook Mounting |
| 14 Recommended Installation Height | 4m- 15m |
| 15 Operating temperature & humidity | -20°C ~ +50°C,10% to 90% RH |
| 16 Optics Beam Angle | 60°/90°/ 120° |
| | |



Applications:

Used for commercial and industrial high bay lighting applications

- Factories, warehouse, workshop, assembly lines, indoor stadium, supermarket, shopping centres, school, hospital, laboratory, airport.
- Suitable for dry, damp and wet locations.



Warehouse & Logisticswarehouse





Indoor stadium

04

02 Factory & Waitingroom



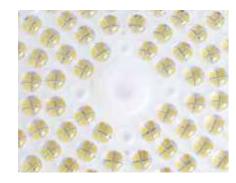


03 Housing

The unique ergonomic housing design enables easy on-site maintenance and installation. The die cast aluminium housing protects the interior components and ensures longevity and durability in demanding conditions.

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Housing:



01 PC optical lens module

- Special optic lenses provide light uniformity which optimizes the lamp's light distribution and efficiency Anti-aging

- Anti-ultraviolet radiation
- . 142° C High temperature resistance

110° C Low temperature resistance



02 AI-Si-Cu Alloy Die Casting Housing

- Tensile strength reaches 288.3N/mm2
- Impact level up to IK08
- IEC 62262;2002

-Protection level of outer shell for external mechanical collision

- Stainless steel screws
- Structure allows air flow through heat sink

for optimum heat management

04 Protection ratings & Specifications



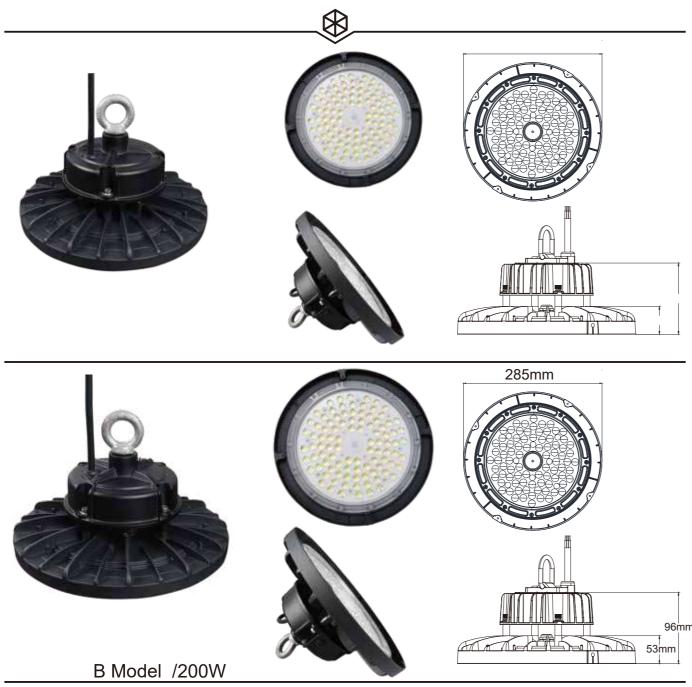
Specifications - CLASS 1

| Model | HB-BLC-200W |
|--------------------|-----------------------------|
| Wattage | 200W/B |
| LED Brand | LUMILEDS |
| LPW | 170lm/W |
| Luminous flux | 34000lm ±5% |
| PF&CRI | PF>0.9,CRI>70(80 available) |
| Input Voltage | 180-305V 50-60Hz |
| Driver | Kinlights OEM |
| Material | Aluminium / PC Lens |
| Cartonsize (MM) | 370*340*230/1CTN |
| N.W. (KG) | 3.2KG |
| G.W. (KG) | 3.8KG |



05 Model variants &Technical details

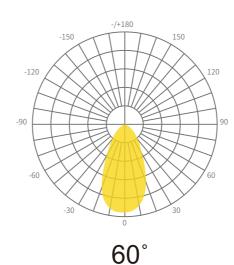
Bright uniform light, with high lumen efficiency.

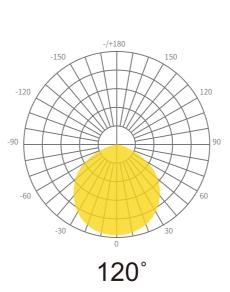


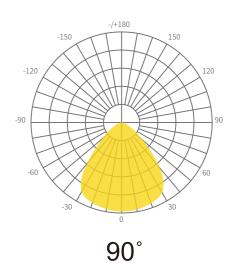
06 Light performance & Distribution

The LED light solution offers reliable optical performance and durability for efficient light coverage in the most demanding situations.

Light Distribution Diagram:

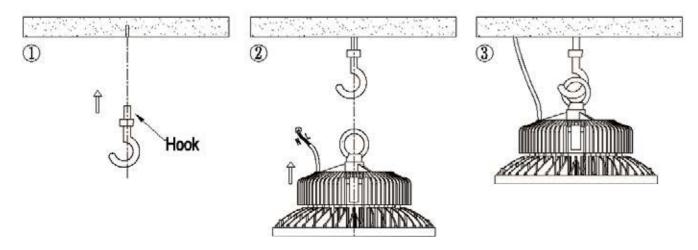






07 Installation

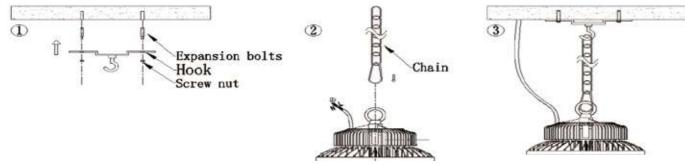
Hook Mounting Installation



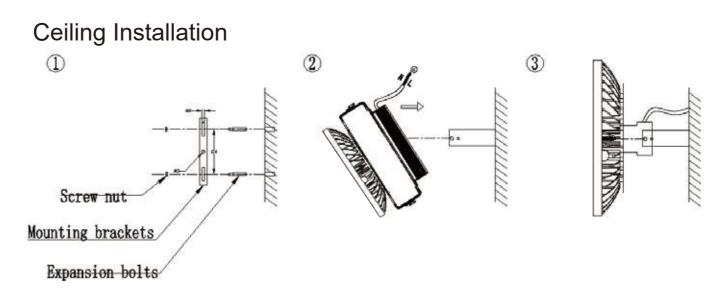
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- Drill corresponding size holes in the ceiling . Put the hook into the holes.
- Making the full fixture 's ring hang on the hook. Keeping it stable.
- Notes distinguish the L / N / GND line.

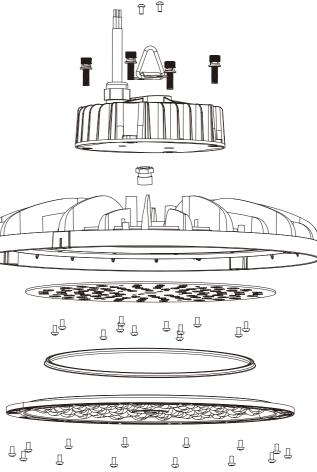
Hanging chain Installation



- Drill corresponding size holes in the ceiling, Put the Expansion bolts into holes. Fixed the hook on the ceiling with nut.
- As Photo 2 showing , Using the chain's buckle button up the fixture's ring.
- As photo 3 showing , Hanging the chain's another-side ring on the hook with carefully.
- Notes distinguish the L / N / GND line.



- Drill corresponding size holes in the ceiling, Put the Expansion bolts into holes. Fixed the hook on the ceiling with nut
- Locking up the fixture's bracket and Wall-mounting bracket with screw . Which in a reasonable beam angle.
- Notes distinguish the L / N / GND line





Safety and symbols key

Certification mark

Indicates conformity with health, safety, and environmental Protection standards for products sold within the European Economic Area (EEA)

RoHS Restriction of Hazardous Substances

The Restriction of Hazardous Substances Directive 2002/95/EC bans placement into the EU market of new electrical and electronic equipment containing more than the designated maximum allowable levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

Electromagnetic compatibility (EMC)

Measures the ability of equipment or systems to function satisfactorily in their electromagnetic environment without introducing intolerable electromagnetic disturbance to anything in that environment.

ENEC (European Norms Electrical Certification)

A certification scheme under CENELEC, accepted throughout Europe. The ENEC Mark for electrical products demonstrates compliance with European safety standards.

WEEE The European Waste Electrical and Electronic Equipment (WEEE)

The European Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC, as amended by 2003/108/EC, encourages the collection, treatment, recycling and recovery of waste electrical and electronic equipment.

REACH Certificate

REACH Certificate of Compliance certifies that a product is compliant with the EU REACH regulation (EC) No 1907/2006, regarding the environmental and human health protection from risks posed by chemical substances.

Standardized documents

- ISTMT ISTMT is the measurement of the LED source case temperature within the LED system (luminaire or lamp) while it is operating in its designed position and/or environment (In "Situation"). The measurement is performed at the temperature measurement point (Tc Point) indicated by the LED package manufacturer.
- TM21 TM21 is the IESNA approved method for taking LM-80 data and making useful LED lifetime projections. The standards apply to lifetime projection of LED package, array or module alone. The results can then be used to interpolate the lifetime of an LED source within a system (luminaire or integrated lamp) using the in-situ LED source case temperature.
- LM80 is the IESNA approved standard for measuring lumen maintenance of LED light sources. LM-80-08 apply to the LED package, array, or module alone, not a complete system, it is testing a component level. The standard does not provide guidance for extrapolation of testing results.
- LM82 Is the IESNA Approved Method for the Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature (LM-82-12) is a document which addresses the changes in photometric performance of SSL light engines and lamps with changes in temperature.
- 500hrs soil Spray Test Soil Spray Soil Spray Soil Spray Test Soil Spray Spray
- IEC 62722 IEC 62722 covers specific performance and environmental requirements for luminaires, incorporating electric light sources for operation from supply voltages up to 1000 V. Unless otherwise detailed, performance data covered under the scope of this standard are for the luminaires in a condition representative of new manufacture, with any specified initial aging procedures completed in a chamber temperature of +35C. This climate is maintained under constant steady state conditions.

Ingress protection rating

Rating Example

IP 65 Ingress protection Against Solids

The first number identifies the ingress protection rating against solids

- 1 For solid bodies with dimensions > 50mm
- 2 For solid bodies with dimensions > 12.5mm
- 3 For solid bodies with dimensions > 2.5mm
 4 For solid bodies with dimensions > 1mm
- 4 For solid bodies with dimension5 Dust protected
- 6 Dust tight

The second number identifies the ingress protection rating against liquids

- For vertically falling drops
- 2 For vertically falling drops when enclosure is tilted up to 15° vertically
- 3 For water sprayed at an angle up to 60° vertically
- 4 For water splashed in any direction
- 5 For water projected in jets against the enclosure from any direction
 6 For water projected in powerful jets against the enclosure
- from any direction
- 7 For enclosure's temporary immersion at 1 meter in the water, under defined conditions
- 8 For enclosure's continuous immersion in the water, under more severe conditions to those of number 7

Impact protection rating

Rating Example

IK 08 Impact protection Mechanical Impact level

The number identifies the impact protection rating

- 00 No protection 01-05 For tiny impact of < 1 Joule
- 06 For impact of 1 Joule
- 07 For impact of 2 Joule
- 08 For impact of 5 Joule 09 For impact of 10 Joule
- 10 For impact of 20 Joule

08 Microwave Sensor Control





| Sensor Parameters | Operating Frequency | |
|----------------------|---------------------|--|
| | Transmitting power | |
| | Hold time | |
| | Stand-by DIM Level | |
| | Stand-by Period | |
| | Detection Area | |
| | Mounting Height | |
| | Detecting Angle | |

Microwave induction

Installation Height: 2~8m Sensing Angle: 120° (Ceiling installation) Induction Range: Diameter approximately 10m

5.8 GHz ±75 MHz, ISM Band.

0.5mW Max.

5s/30s/1min/3min/5min/10min/20min/30min

10%/20%/30%/50%

0s/ 10s/1 min/3min/5min/ 10min/30min/+∞

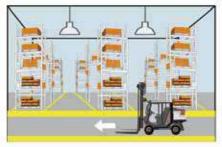
25%/50%/75%/100%

2~8m

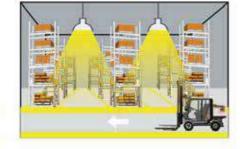
150°(wall mounting), 360*(ceiling mounting)

Packing

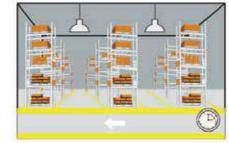
1) On/OFFFunction(stand-by period be set to"0"s)



With sufficient ambient light, the light will not be switched on even if with motion signal.

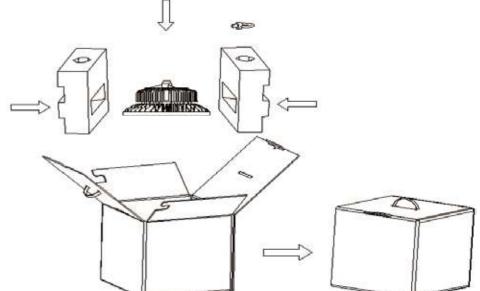


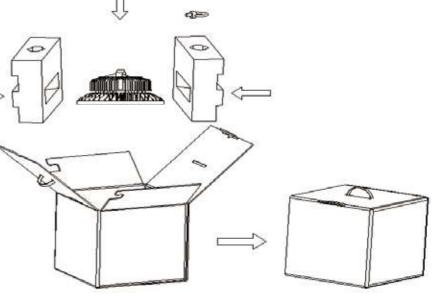
With insufficient ambient light, the sensor switches on the light when motion is detected.



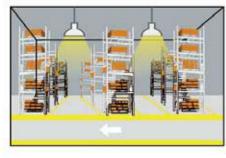
After elapse of hold time, the sensor switches off the light when no motion is detected.

| | \checkmark |
|-------------|--------------|
| MODEL | CTN SIZ |
| | |
| HB-BLC-200W | 370*340*230m |
| | 100.0 |

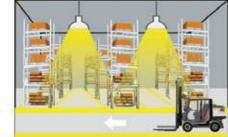




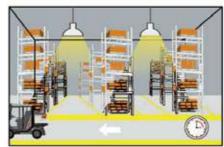
2) 2-step dimming function (stand-by period be set to "+ ∞ ")



If there is no motion detected, the light will be remained at a low light level all the time.



When motion is detected, the sensor will switch on the light to 100% brighteness



After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

Storage Environment:

- Ambient operating temperature range: -20 °C --- + 40 °C
- Environmental Storage temperature range: -25 °C --- + 65 °C
- Environmental Ratings: dry and ventilated moisture-free environment



1. Please read the installation instruction carefully before installing;

2. The brown wire is live line (L), the blue wire is zero line (N) and the green yellow wire is earth line (\pm) ;

3. Do not close to the place with heat source to prevent damaging the UFO for high temperature;

- 4. Ensure right wiring;
- 5. Do not disassemble the UFO without permission;
- 6. Please cut off the power source before installation or repair;

