



## **Helipad Approach / Landing / Perimeter Lighting**

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### **Data Sheets**

Rev: 1.0V

**Helipad Lighting**

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## Light Beacon

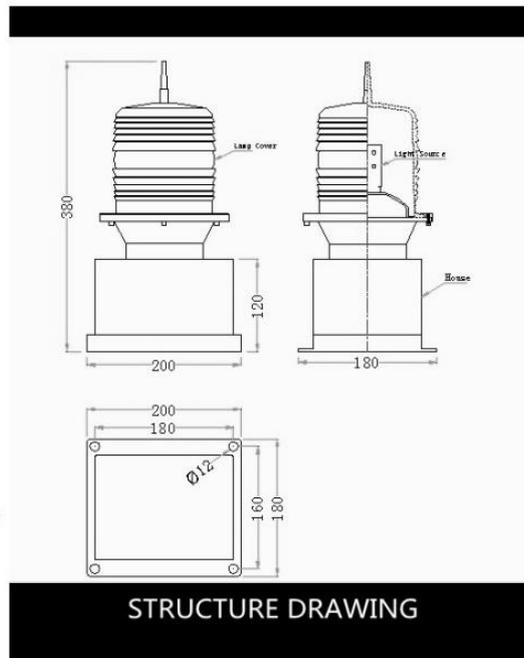
HP-50/A - This heliport light beacon is a white flashing light, as a distance visual guidance. It's so important especially when the ambient light make it difficult to see there is a heliport. According to ICAO, every heliport should have at least one light beacon. It should be installed above or near the heliport, best if it is installed in an elevated place. Please make sure the pilot will not feel glaring from short distance.

### Description

- The lamp cover adopts PC material of excellent impact resistance (IZOD notch impact strength: 90), thermal stability (service temperature can be 130 °C), great transparency (available with a light transmission of up to 90%), auto-UV resistance, aging resistance and flammability rating in UL94V0.
- The house of the light adopts stainless steel SUS304 and aluminum liquid casting and oxidation treatment, the product has features of light weight, water tightness, seismic and corrosion resistance.
- Light source adopts cold light xenon tube, featuring high light (100Lm/W), light source life for flashing reaching 100,000,000 times. Widely used by the domestic and international aviation field.
- The light with surge protection device (In 7.5KA/5 times, I<sub>max</sub> 15KA) can be used in the harsh environment.



IMAGE



STRUCTURE DRAWING

**Technical Parameter**

<b>Beacon Light</b>	
<b>Effective Intensity</b>	2500 Candela
<b>Operation</b>	
Operation Mode	Wire
Illumination Technology	Xenon Lamp
Available Color	White
Available Flash Patterns	2 times/ per second
Lifespan of Xenon Lamp	100,000,000 times
Chromatist of Color Output Control	ICAO standard Annex 14 Controller
<b>Power Supply</b>	
Input Power	AC220V/DC48V
Power Consumption	15 Watt
<b>Physical Characteristics</b>	
Body Material	Polycarbonate ①
Bottom Case	Aluminium Alloy SUS304 Stainless Steel
Mounting	4*12mm holes
Overall Dimension	200mm*180mm*380mm
Packing Size	225mm*245mm*425mm
Net Weight	3KG
Temperature Range	- 40℃ to +60℃
Water Proof	IP65
Warranty	5 years limited warranty
<b>Certificate</b>	
ISO Pass	ISO9001:2008
CAAC Usage Permit	06404318

Note①

**Polycarbonate**

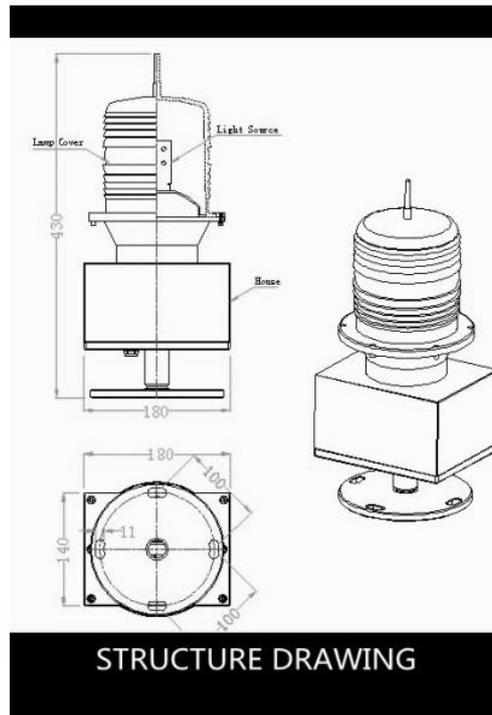
Germany Bayer Brand" Makrolon"

## Approach Light

The HP-50/B heliport approach light is a white sequence flashing light. Used for approach guidance when helicopter is landing, it can provide instructions about approach direction for the helicopter pilot. HP-50/B can be installing in the exterior of the heliport perimeter lights for the direction of approach, unilateral or two-way installation. At least 5 lights each group. Flash from the outside to the inside.

### Description

- The lamp cover adopts PC material of excellent impact resistance (IZOD notch impact strength: 90), thermal stability (service temperature can be 130°C), great transparency (available with a light transmission of up to 90%), auto-UV resistance, ageing resistance and flammability rating in UL94V0.
- The house of the light adopts stainless steel SUS304 and aluminum liquid casting and oxidation treatment, the product has features of light weight, water tightness, seismic and corrosion resistance. There is a frangible coupling in the bottom of the light.
- Light source adopts cold light xenon tube, featuring high light (100Lm/W), light source life for flashing reaching 100,000,000 times. Widely used by the domestic and international aviation field.
- The light with surge protection device (In 7.5KA/5 times, I<sub>max</sub> 15KA) can be used in harsh environments.



**Technical Parameter**

<b>Approach Light</b>	
<b>Effective Intensity</b>	3500 Candela
<b>Operation</b>	
<b>Operation Mode</b>	Wire
<b>Illumination Technology</b>	Xenon Lamp
<b>Available Color</b>	White
<b>Available Flash Patterns</b>	1 times/ per second
<b>Lifespan of Xenon Lamp</b>	100,000,000 times
<b>Control</b>	Controller
<b>Power Supply</b>	
<b>Input Power</b>	AC220V/DC48V
<b>Power Consumption</b>	15 Watt
<b>Physical Characteristics</b>	
<b>Body Material</b>	Polycarbonate ①
<b>Bottom Case</b>	Aluminium Alloy SUS304 Stainless Steel
<b>Frangible Coupling</b>	Available
<b>Mounting</b>	4*11mm holes
<b>Overall Dimension</b>	180mm*180mm*430mm
<b>Packing Size</b>	240mm*240mm*475mm
<b>Net Weight</b>	3.5KG
<b>Temperature Range</b>	- 40℃ to +60℃
<b>Water Proof</b>	IP65
<b>Warranty</b>	5 years limited warranty
<b>Certificate</b>	
<b>ISO Pass</b>	ISO9001:2008
<b>CAAC Usage Permit</b>	06404319

Note①

**Polycarbonate**

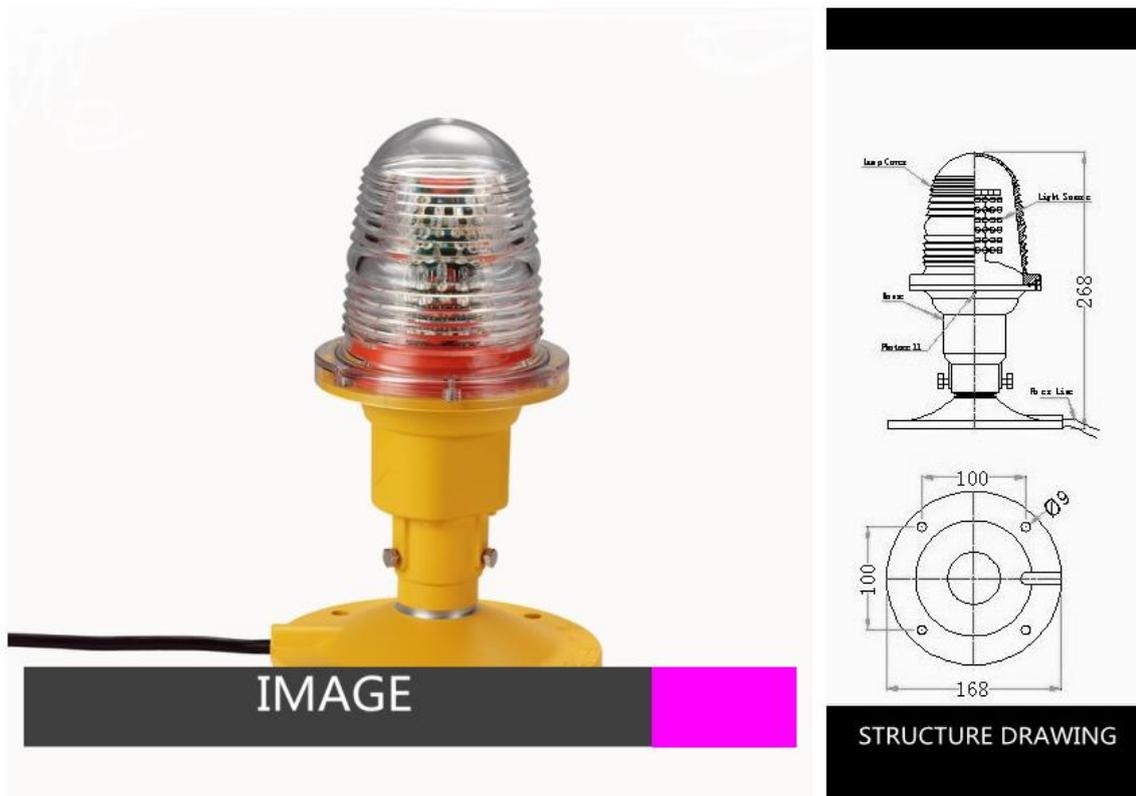
Germany Bayer Brand" Makrolon"

## Upright Perimeter Light

HPEI-60 - The heliport perimeter light is a constant green upright light. Emitting Omni-directional green light at night or in the daytime with low visibility to indicate the perimeter of heliport take off and land area in order to indicate the safe landing area for helicopter pilot. HPEI-60 is controlled by a switch in the heliport control cabinet.

### Description

- The lamp cover adopts PC material of excellent impact resistance (IZOD notch impact strength: 90), thermal stability (service temperature can be 130°C), great transparency (available with a light transmission of up to 90%), auto-UV resistance, corrosion resistance and flammability rating in UL94V0.
- Light Housing is made of aluminum alloy.
- Light source adopts the international advanced LED featuring low power consumption, high efficiency and light source lifespan reaching 100,000 hr..
- The light with surge protection device (In 7.5KA/5 times, I<sub>max</sub> 15KA) can be used in harsh environments.



IMAGE

STRUCTURE DRAWING

### Technical Parameter

<b>Perimeter Light</b>	
<b>Effective Intensity</b>	≥25 Candela
<b>Operation</b>	
Operation Mode	Wire
Illumination Technology	Efficiency LED
Available Color	Green
Available Patterns	Steady Burning
Lifespan of LED	100,000 hours
Control	Controller
<b>Power Supply</b>	
Input Power	AC220V/DC48V
Power Consumption	5 Watt
<b>Physical Characteristics</b>	
Body Material	Polycarbonate ①
Bottom Case	Aluminium Alloy
Frangible Coupling	Available
Mounting	4*9mm holes
Overall Dimension	168mm*168mm*260mm
Packing Size	200mm*200mm*340mm
Net Weight	1.5KG
Temperature Range	- 40℃ to +60℃
Water Proof	IP65
Warranty	5 years limited warranty
<b>Certificate</b>	
ISO Pass	ISO9001:2008
CAAC Usage Permit	06404320

Note①

**Polycarbonate**

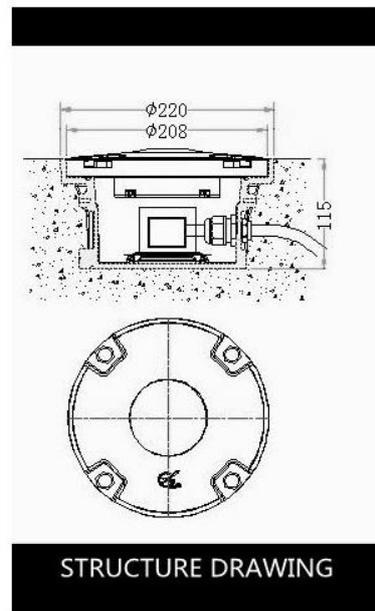
Germany Bayer Brand" Makrolon"

### Inset Perimeter Light

HPIIn-60 - The heliport perimeter light is a steady burning green inset light. Emitting Omni-directional green light at night or in the daytime with low visibility to indicate the perimeter of heliport take off and land area, in order to indicate the safe landing area for helicopter pilot. It is controlled by a switch in the heliport control cabinet.

### Description

- The lamp cover adopts PC material of excellent impact resistance (IZOD notch impact strength: 90), thermal stability (service temperature can be 130°C), great transparency (available with a light transmission of up to 90%), auto-UV resistance, corrosion resistant and flammability rating in UL94V0.
- Light housing is made of aluminum liquid casting and oxidation treatment.
- Light source adopts the international advanced LED featuring low power consumption, high efficiency and light source lifespan reaching 100,000 hr..
- Light has surge protection device (In 7.5KA/5 times, I<sub>max</sub> 15KA) can be used in harsh environment.



### Technical Parameter

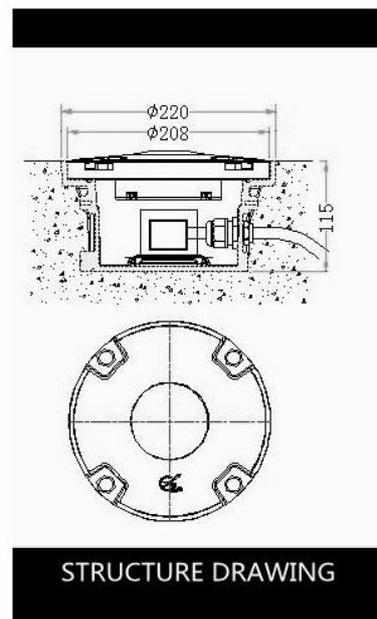
<b>Perimeter Light</b>	
<b>Effective Intensity</b>	≥25 Candela
<b>Operation</b>	
Operation Mode	Wire
Illumination Technology	Efficiency LED
Available Color	Green
Available Patterns	Steady Burning
Lifespan of LED	100,000 hours
Control	Controller
<b>Power Supply</b>	
Input Power	AC220V/DC48V
Power Consumption	10 Watt
<b>Physical Characteristics</b>	
Reflector Material	Polycarbonate
Bottom Case	Aluminium Alloy
Overall Dimension	220mm*220mm*130mm
Packing Size	280mm*280mm*200mm
Net Weight	6.5KG
Temperature Range	- 40°C to +60°C
Water Proof	IP68
Warranty	5 years limited warranty
<b>Certificate</b>	
ISO Pass	ISO9001:2008
CAAC Usage Permit	06404320

**Landing Aim Point Light**

The LAPL - 100 helipad aiming point light is a steady burning white inset light. Emitting a Omni-directional white light at night or in the daytime with low visibility to show the accurate loading place for loading a helicopter. It is controlled by a switch in the heliport control cabinet.

### Description

- The lamp cover adopts PC material of excellent impact resistance (IZOD notch impact strength: 90), thermal stability (service temperature can be 130 °C), great transparency (available with a light transmission of up to 90%), auto-UV resistance, aging resistance and flammability rating in UL94V0.
- House of the light is made of aluminum liquid casting and oxidation treatment.
- Light source adopts the international advanced LED featuring low power consumption, high efficiency and light source lifespan reaching 100,000 hr..
- The light with surge protection device (In 7.5KA/5 times, I<sub>max</sub> 15KA) can be used in harsh environment.



### Technical Parameter

<b>Aiming Point Light</b>	
<b>Effective Intensity</b>	100 Candela
<b>Operation</b>	
Operation Mode	Wire
Illumination Technology	Efficiency LED
Available Color	White
Available Patterns	Steady Burning
Lifespan of LED	100,000 hours
Control	Controller
<b>Power Supply</b>	
Input Power	AC220V/DC48V
Power Consumption	12 Watt
<b>Physical Characteristics</b>	
Reflector Material	Polycarbonate
Bottom Case	Aluminium Alloy
Overall Dimension	220mm*220mm*130mm
Packing Size	280mm*280mm*200mm
Net Weight	6.5KG
Temperature Range	- 40°C to +60°C
Water Proof	IP68
Warranty	5 years limited warranty
<b>Certificate</b>	
ISO Pass	ISO9001:2008
CAAC Usage Permit	06404321

**Flood Light Type A**

The heliport flood light is a ground surface installation light. It's used to lighten the surface of the heliport, ensuring the heliport surface illumination is no less than 10 Lux, making the heliport sign easy to see and giving the landing heliport accurate guidance. Uniform illumination of the heliport allows the pilot to reduce eye glare as much as possible in short distance. It is controlled by a switch in the heliport control cabinet.

### Description

- The lamp cover adopts tempered glass of excellent impact resistance, thermal stability (service temperature can be 500°C), great transparency (available with a light transmission of up to 97%), auto-UV and aging resistance.
- House adopts casting aluminum and coating process that has features of good light, water tightness, and shock and corrosion resistance.
- Light source adopts the international advanced halogen light featuring long lifespan (the lifespan is more than 15000hr.) and high efficiency. Color temperature is 6000K.



### Technical Parameter

<b>Flood Light</b>	
<b>Luminous Flux</b>	13000Lm
<b>Operation</b>	
<b>Operation Mode</b>	Wire
<b>Illumination Technology</b>	Metal Halide
<b>Available Color</b>	White
<b>Available Patterns</b>	Steady Burning
<b>Lifespan of Lamp</b>	15000 hours
<b>Control</b>	Controller
<b>Power Supply</b>	
<b>Input Power</b>	AC220V
<b>Power Consumption</b>	160 Watt
<b>Physical Characteristics</b>	
<b>Reflector Material</b>	Toughened Glass
<b>Bottom Case</b>	Aluminium Alloy
<b>Overall Dimension</b>	305mm*250mm*167mm
<b>Mounting</b>	2*10.5mm
<b>Net Weight</b>	4.5KG
<b>Temperature Range</b>	- 30°C to +60°C
<b>Water Proof</b>	IP65
<b>Warranty</b>	5 years limited warranty
<b>Certificate</b>	
<b>ISO Pass</b>	ISO9001:2008
<b>CAAC Usage Permit</b>	06404322

**Flood Light Type B**

The heliport flood light is a ground installation light. It's used to lighten the surface of the heliport, ensuring the heliport surface illumination is not less than 10 Lux, making the heliport sign easy to see and give the landing heliport accurate guidance. Uniform illumination of the heliport allows the pilot to reduce eye glare as much as possible in short distance. It is controlled by a switch in the heliport control cabinet.

### Description

- The lamp cover adopts tempered glass of excellent impact resistance, thermal stability (service temperature can be 500°C), great transparency (available with a light transmission of up to 97%), auto-UV and aging resistance.
- House adopts casting aluminum and coating process that used to be the light source radiator at the same time. The product has features of good heat dissipation, light, water tightness, shock and corrosion resistance.
- Light source adopts the international advanced LED featuring low power consumption, high efficiency and light source lifespan reaching 100,000 hr.. Color temperature is 6000K.
- The light with surge protection device (In 7.5KA/5 times, I<sub>max</sub> 15KA) can be used in the harsh environment.



### Technical Parameter

<b>Flood Light</b>	
<b>Luminous Flux</b>	2100Lm
<b>Operation</b>	
<b>Operation Mode</b>	Wire
<b>Illumination Technology</b>	Efficiency LED
<b>Available Color</b>	White
<b>Available Patterns</b>	Steady Burning
<b>Lifespan of LED</b>	100,000 hours
<b>Control</b>	Controller
<b>Power Supply</b>	
<b>Input Power</b>	AC220V
<b>Power Consumption</b>	20 Watt
<b>Physical Characteristics</b>	
<b>Reflector Material</b>	Toughened Glass
<b>Bottom Case</b>	Aluminium Alloy
<b>Overall Dimension</b>	305mm*250mm*167mm
<b>Mounting</b>	2*10.5mm
<b>Net Weight</b>	4.5KG
<b>Temperature Range</b>	- 40°C to +60°C
<b>Water Proof</b>	IP65
<b>Warranty</b>	5 years limited warranty
<b>Certificate</b>	
<b>ISO Pass</b>	ISO9001:2008
<b>CAAC Usage Permit</b>	06404322

**Vane/Windsock**

This product can indicate the wind direction in the ultimate approach and take off area and make a general indication on the wind speed. Every airport should be equipped with at least one vane. For the installation location, it must not be intervened by the nearby object or airflow blew by the rotary wing and can be seen from the helicopter in the air.

### **Product description**

- Illumination Vane can be used as a sign in all kinds of airport to observe the wind power and wind direction in both daytime and night.
- The wind sleeve is installed in a 360°bearing rotation gear and there are two 100W metal tungsten halogen lamps on the top to provide illumination at night. There is also a red obstruction light on the top.
- The wind sleeve is made of corrosion-resistant and high-temperature-resistant nylon flashing material.
- The power supply of this product is 220V, 50Hz.

### **Components**

1. Top illumination unit: two 100W tungsten halogen lamps and one red obstruction light have been installed.
2. Wind direction indication part: it includes one red-and-white wind sleeve, one wind sleeve frame and one 360°rotation gear.
3. Installation support and base part: all the supports are made of stainless steel whose bottom have a door for lead terminal.

### **Installation**

Cover the wind sleeve over the wind sleeve frame and use magic tape to fix it. Check whether the wind sleeve frame is fixed stably with the rotation gear; make sure the two holding pawls of wind sleeve frame is well fixed.

Connect the vane as per the figure, and connect the leading wire according to the circuit requirement and check the lamp, then use 4 M16 bolts and nuts to fix the vane on the concrete base.

Check the verticality of installation support, and adjust it if it is oblique.

Check whether the wind sleeve can rotate well; if it is stuck, use lubricating agent (oil).

Make sure to check it once every 6 months.

### **Technical Parameter**

The support is welded by stainless steel pipe which can resist corrosion.

The whole vane is 1.5-7m high subject to customer's requirement.

The illumination lamp and obstruction light is optional, and 2 100W halogen flood lamps and one 10cd red obstruction light are available.

Input voltage: 220V, 50Hz (6.6A power supply method is also available according to actual requirement).

The wind sleeve has two dimensions:

1. The diameter is 300mm, the diameter at small end is 150mm and the length is 1.2m
2. The diameter is 600mm, the diameter at small end is 300mm and the length is 2.4m

The color is red-and-white or orange-and-white.

This product complies with the Consultation Announcement AC150/5345-27C and L-806 of U.S. Federal Aviation Administration (FAA), Appendix 14-Airport of International Civil Aviation Organization (ICAO) and the specifications in Part Four of Airport Design drafted by ICAO.

The max designed wind speed is 260kph.

Light wind sleeve and stainless steel wind sleeve frame.

Connect the wire in the bottom and 2.5mm<sup>2</sup> wire terminal is available.

