BRIGHTWAY LED Lighting

LED HIGH TEMPERATURE FLOOD LIGHTS - LS Series ARE-HTZ

High Temperature
LED Flood Lights

Introducing our high-temperature LED flood lights, meticulously crafted to meet the rigorous demands of industrial areas and extreme temperature environments. Capable of withstanding temperatures up to 200°C, these lights are built for resilience in the most challenging conditions. Whether in foundries, factories, military facilities, or warehouses, they deliver dependable illumination where it's needed most. Utilizing advanced LED technology, these lights combine energy efficiency with robust durability, ensuring long-lasting performance even in the harshest settings.

Max. 200°C

392°F

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Features

High temperature LED flood lights are designed with several features that enable them to withstand harsh conditions in industrial environments. Specifically, the LED chips used in these lights are made from materials that can maintain their luminosity and efficiency even in extreme heat. Heat-resistant components, such as high-temperature capacitors and heat sinks, help to dissipate heat and protect the electronic components from damage. These lights are also designed with an IP67 waterproof and dustproof rating to protect against water and dust. High temperature LED flood lights undergo thorough testing to ensure they can withstand harsh industrial environments, including shock resistance, vibration resistance, and temperature stability.

IP67 Power Supply + IP67 Light Body

High Temperature LED Chips

The LED chips used in high temperature LED flood lights are specially designed to withstand high temperatures without losing their luminosity or efficiency. These chips are made from materials that are highly resistant to heat and are capable of maintaining their performance even in extreme conditions.

Gold Wire Free Technology

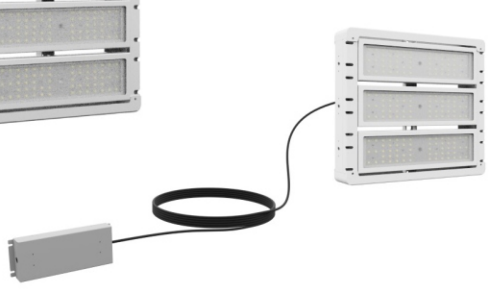
In traditional LED packaging, gold wire is used to connect the LED chip to the electrical contacts on the package. However, the thin gold wire can become brittle and break over time, which can cause a decrease in the efficiency of the LED and result in heat generation. In contrast, **wire-free packaging technology** uses a different method to connect the LED chip to the package that does not require any wire. This eliminates the potential issue of wire breakage and reduces the amount of heat generated during operation.

Finned Heat Sink

The finned heat sink design is an effective way to improve the heat dissipation of high temperature LED lights. By increasing the surface area in contact with the air, the fins on the heat sink enable better heat transfer, allowing the heat to be dissipated more efficiently. The gap between the fins also enhances the airflow, which further facilitates heat dissipation. The finned heat sink design reduces the temperature of the LED lights, leading to an improvement in their lifespan and stability.

Temperature-Stabilizing Coatings

Temperature-stabilizing coatings are carefully applied to both the internal and external surfaces of the light, providing essential protection against heat damage and thermal oxidation, even in environments reaching up to 200°C. These advanced coatings function as a durable shield, preventing the materials from deteriorating under intense heat. By mitigating the effects of thermal stress and oxidation, these coatings ensure that the light retains its structural integrity and performance over time, even in the most challenging industrial settings.



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Specifications

200°C High Temperature Lights

50W

Model: LS-ARE-HTZ-50
Max. work temperature: 200°C (392°F)
Lumens: 8,000 lm
CCT: 2,700K to 7,500K (Regular)
1,500K to 10,000K (Customized)
CRI: 75 (Regular)
80 / 90 / 95 / 98 (Customized)
Beam angle: 120°
Input voltage: 90-295VAC, 50-60Hz
110VAC / 220VAC / 240VAC
*Driver: MEAN WELL / Inventronics
Power factor: >95%
Life span: 100,000 hours
Warranty: 5 Years

100W

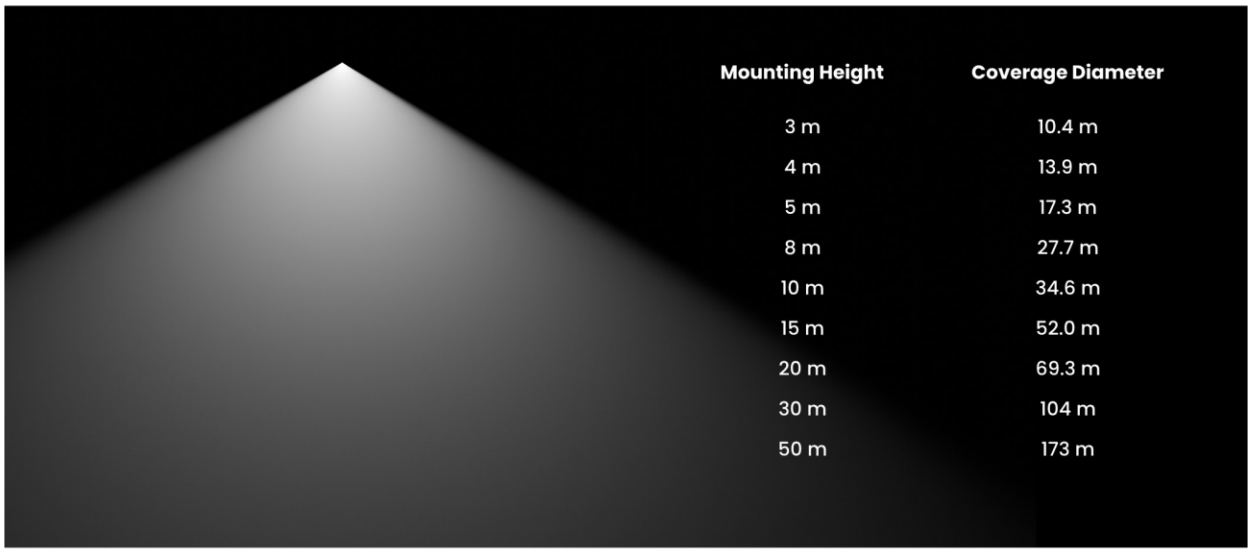
Model: LS-ARE-HTZ-100
Max. work temperature: 200°C (392°F)
Lumens: 16,000 lm
CCT: 2,700K to 7,500K (Regular)
1,500K to 10,000K (Customized)
CRI: 75 (Regular)
80 / 90 / 95 / 98 (Customized)
Beam angle: 120°
Input voltage: 90-295VAC, 50-60Hz
110VAC / 220VAC / 240VAC
*Driver: MEAN WELL / Inventronics
Power factor: >95%
Life span: 100,000 hours
Warranty: 5 Years

200W

Model: LS-ARE-HTZ-200
Max. work temperature: 200°C (392°F)
Lumens: 32,000 lm
CCT: 2,700K to 7,500K (Regular)
1,500K to 10,000K (Customized)
CRI: 75 (Regular)
80 / 90 / 95 / 98 (Customized)
Beam angle: 120°
Input voltage: 90-295VAC, 50-60Hz
110VAC / 220VAC / 240VAC
*Driver: MEAN WELL / Inventronics
Power factor: >95%
Life span: 100,000 hours
Warranty: 5 Years

300W

Model: LS-ARE-HTZ-300
Max. work temperature: 200°C (392°F)
Lumens: 48,000 lm
CCT: 2,700K to 7,500K (Regular)
1,500K to 10,000K (Customized)
CRI: 75 (Regular)
80 / 90 / 95 / 98 (Customized)
Beam angle: 120°
Input voltage: 90-295VAC, 50-60Hz
110VAC / 220VAC / 240VAC
*Driver: MEAN WELL / Inventronics
Power factor: >95%
Life span: 100,000 hours
Warranty: 5 Years



Mounting Height	Coverage Diameter
3 m	10.4 m
4 m	13.9 m
5 m	17.3 m
8 m	27.7 m
10 m	34.6 m
15 m	52.0 m
20 m	69.3 m
30 m	104 m
50 m	173 m

* The LED driver, which operates separately from the light, can withstand temperatures up to 100°C. It is essential to ensure that the LED driver is positioned away from any heat source surpassing 100°C.