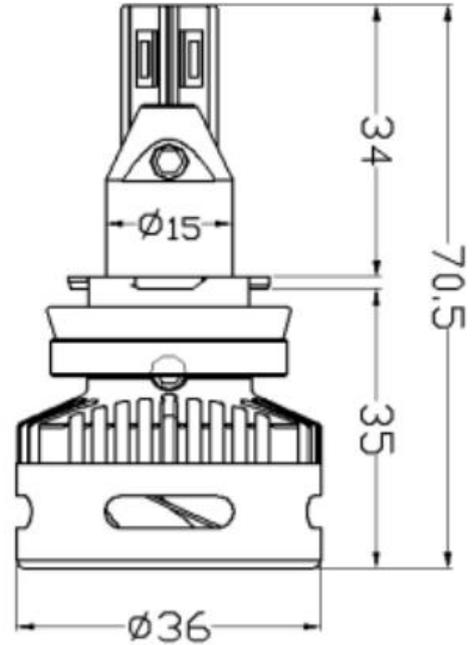


V6 Projector LED headlight



Parameters

Input voltage	9-30V DC
Input current	12V / 3.0 A
Output power	Real 36W
LED chip	HGL3 chip
Real Lumen	Real 3200LM
Colour Temperature	6000K
Working Temperature	-45 - +85
Life-span	30000 hours

Available Sizes

**H7, H8/H9/H11/H16,
9005, 9006, 9012**

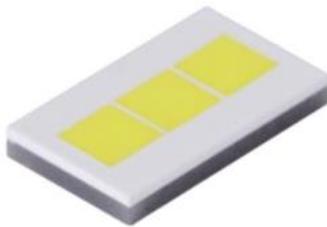
High Power LED Chips



LatticePower

HIGH POWER FAMILY DATA SHEET

LatticeBright @ HML3



Product Describe :

HML3 is a High-Power 20~30W LED of LatticeBright. Through the latest LED packaging technology, it contains many features as high luminous efficiency, resistance to high current and low thermal resistance ect.

Applications:

Automotive headlights

Features

- Ceramic substrates package
 - According to the ANSI standard colour gamut
 - ESD protection
 - Compatible wiht SMT
 - Size: 7.50mm×4.50 mm×0.85mm
 - Typical Color Temperature and Luminous Flux :
6000K 2480lm@2000mA (Pulses)
 - Viewing Angle: 120°
 - Chip: Sapphire Flip chip
-

Power and heat dissipation test



T6 showed the working temp which is near the LED chip

T4 showed the working temp of the heat sink



Time: 12:15PM

(About 30 seconds working)

T6 is **48.9 °C**

T4 is **32.4 °C**

Power: **40W**
(12V/3.4A)



Time: 14:59PM

(About 2 hours and 45 mins working)

T6 is **88.1 °C**

T4 is **50.6 °C**

Power: **36W**
(12V/3.0A)

TEST RESULT:

It was meant the V6 heat dissipation is very excellent, as we know the heat dissipation is the only element what has restricted the develop of LED headlight bulb. The V6 temperature always keep at a safe range during 3 hours working. Besides, The stable power reach to 36W, it is even powerful than HID bulb.



With the increasing number of projector headlamps since 2006, customers urgently need to modified original bulb with enviromentally LEDs instead of overheated HIDs. Although most of the current LED headlight in market fit well in reflector headlamp, but there are realistic problems when they are fitting in projector headlamp. Firstly there will be a severe lumen attenuation (40%). Secondly the projector will make regular led headlight to produce dark area. However, now EKLIGHT V6 projector LED headlight bulb has solved these issues properly..

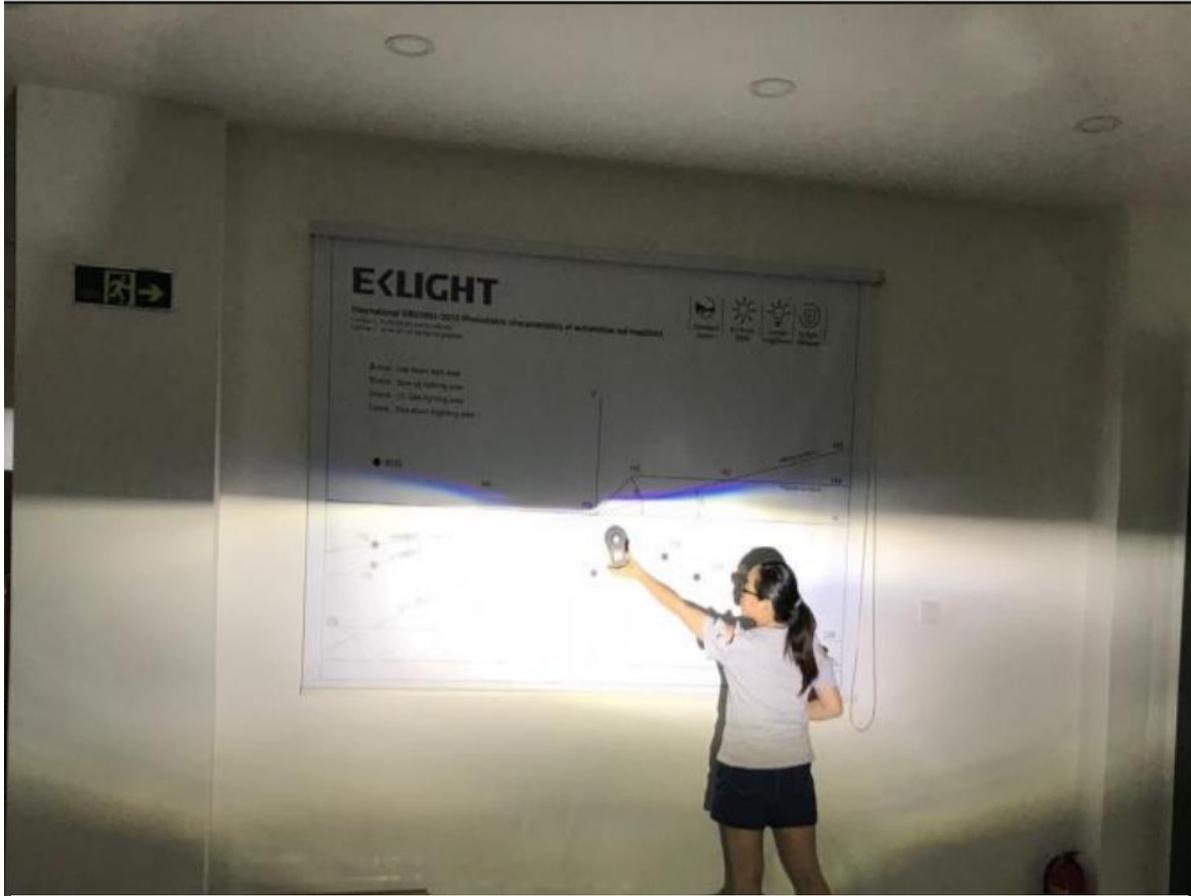
The reflector LED lamp produced a big dark area in the projector headlamp



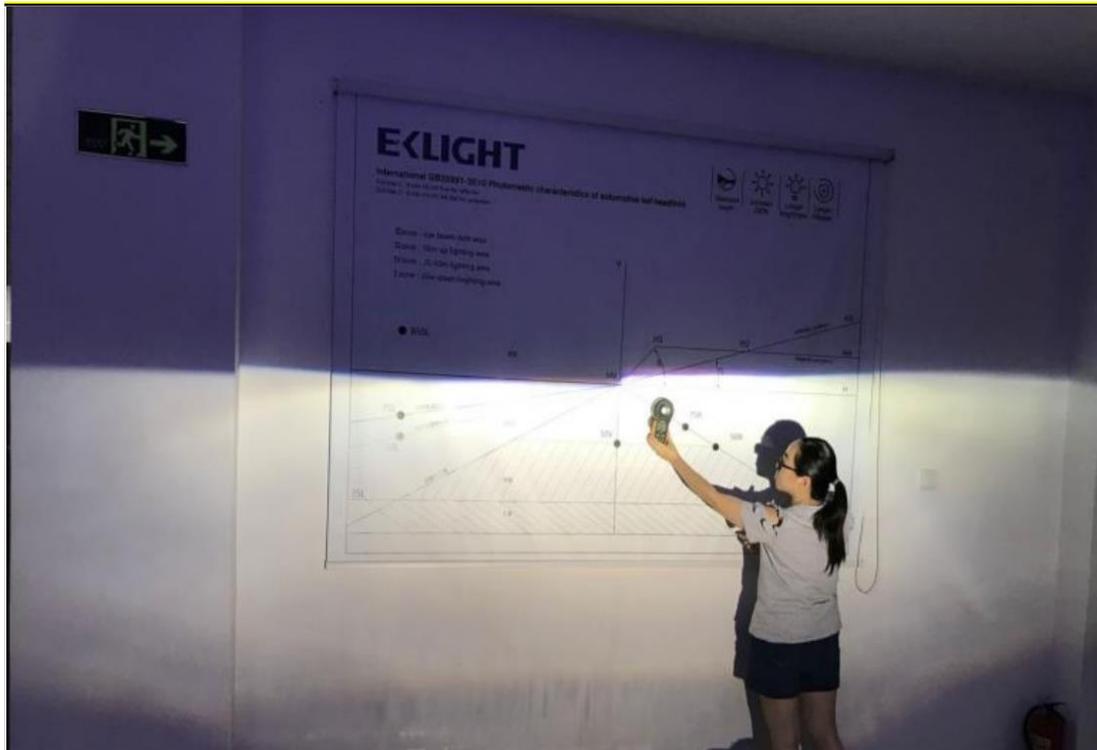
Notice: It is dangerous if there is a big dark area in the light pattern when you driving on the road

V6 beam pattern and LUX contrast with HID bulb

V6 D2S LED model has produced 924LUX from the projector headlamp



D2S HID bulb has produced **827LUX** from the projector headlamp



Test Result:

EKLIGHT V6 is the same output beam pattern as HID bulb, but much brighter and more focus