

# Head Light Performance To Get IIHS Good Rating

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# Honda's approach to safety



**Safety for Everyone**

Honda dreams of a collision-free mobile society where our customers, and everyone sharing the road, can safely and confidently enjoy the freedom of mobility.

*Many of safety technologies are developing under this slogan .*

# Honda head light concept

## Head Light activity as safety technology

### Visibility improvements to prevent collisions



#### *Current feature*

✓ **LED Low and High beam**

Light Distribution Improved

✓ **Auto High Beam Applied**

Increased usage of high beam

• LED Headlight



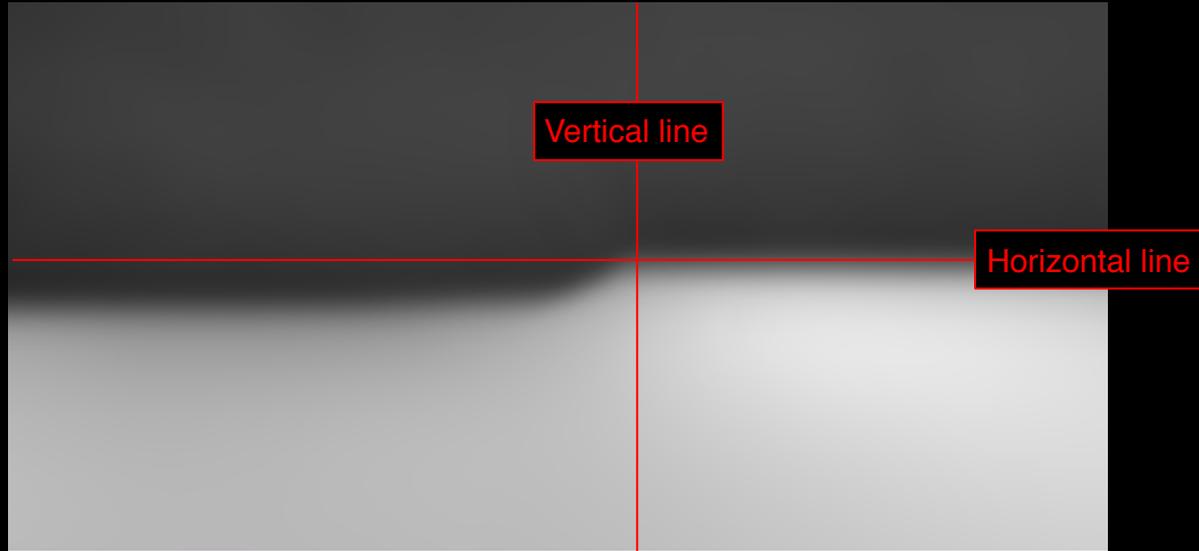
• Auto High Beam



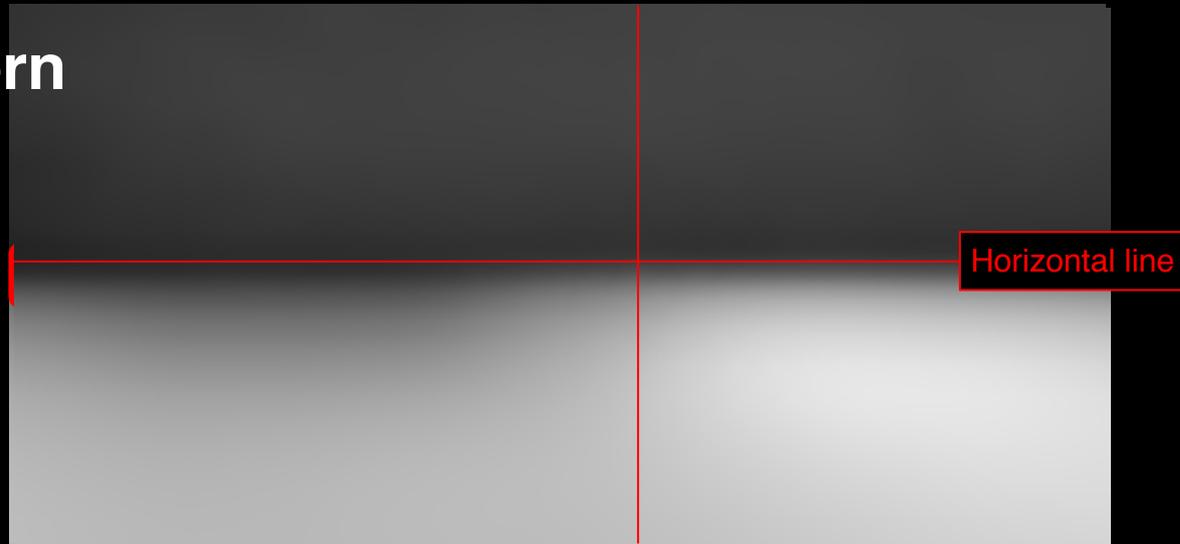
# Honda head light concept

## Visibility improvement of Low beam

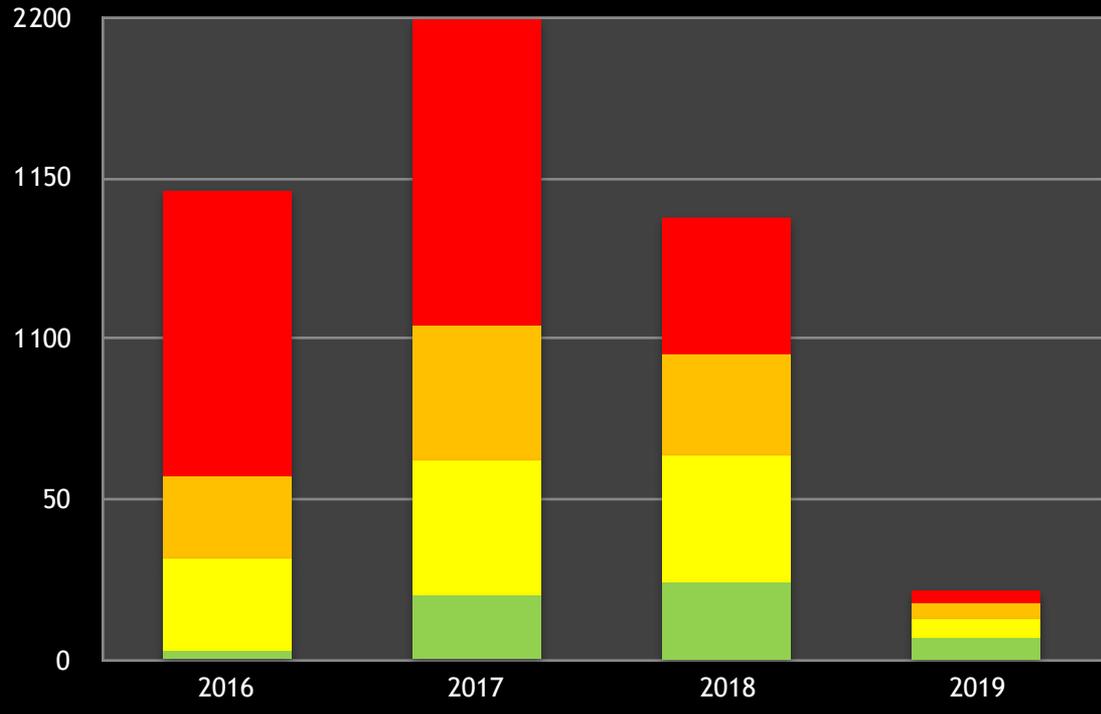
Z beam pattern



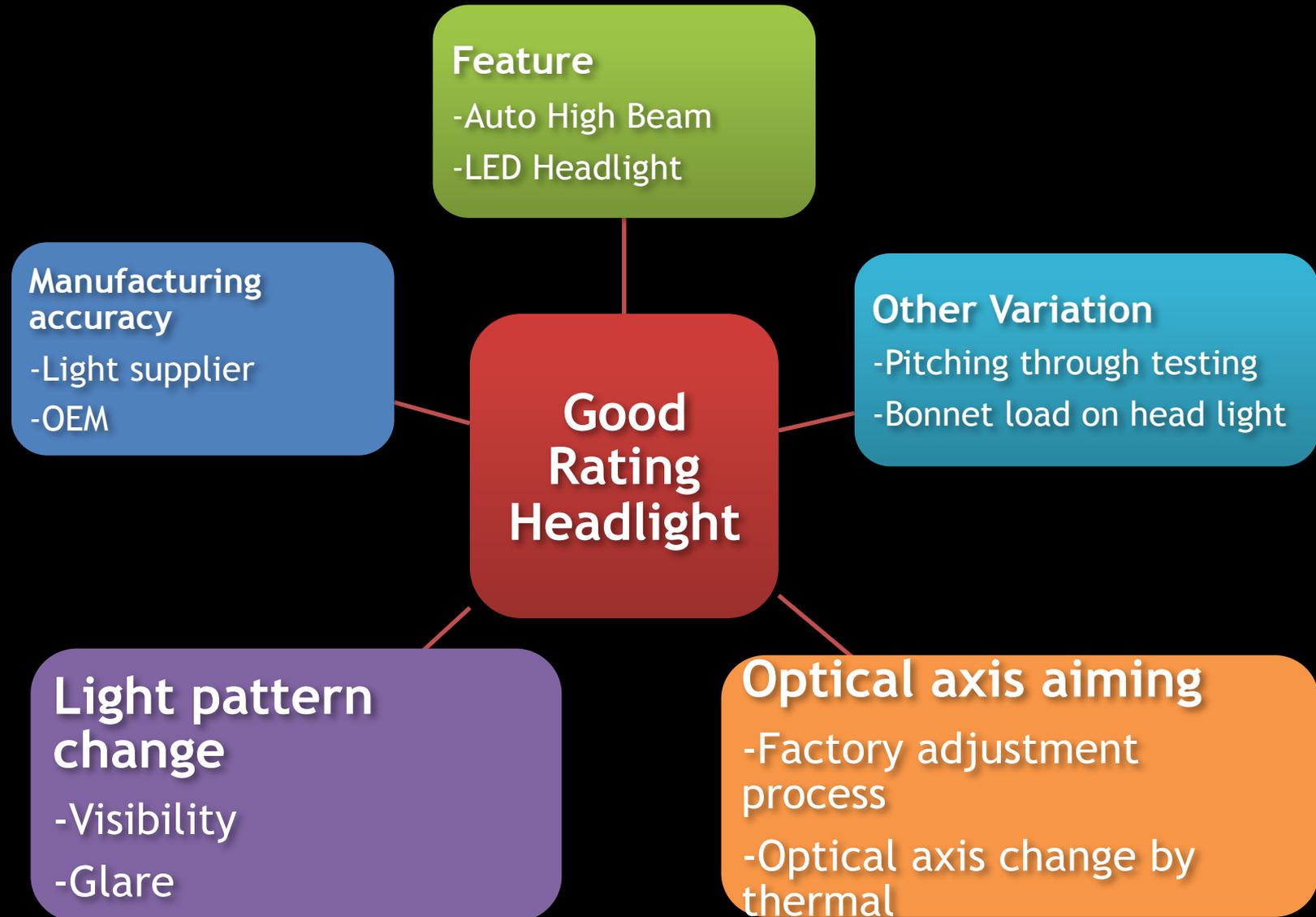
Flat beam pattern



# Safety awards

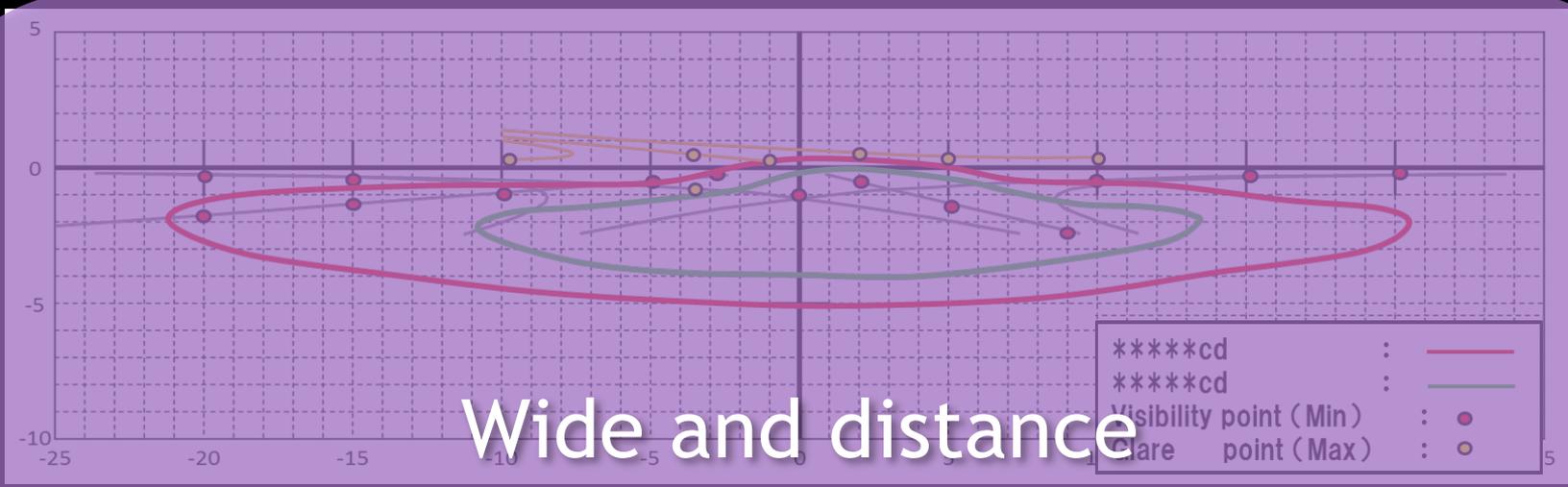


# Honda lighting concept



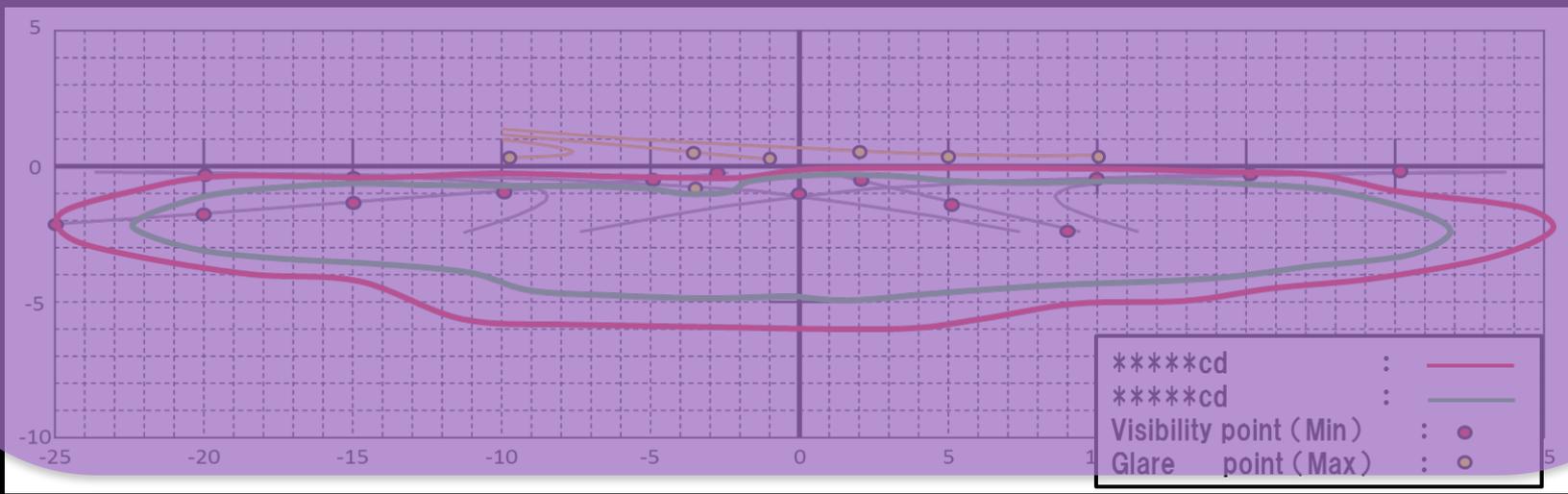
# Light pattern

Current pattern



Wide and distance  
Reduce glare

Good rating pattern



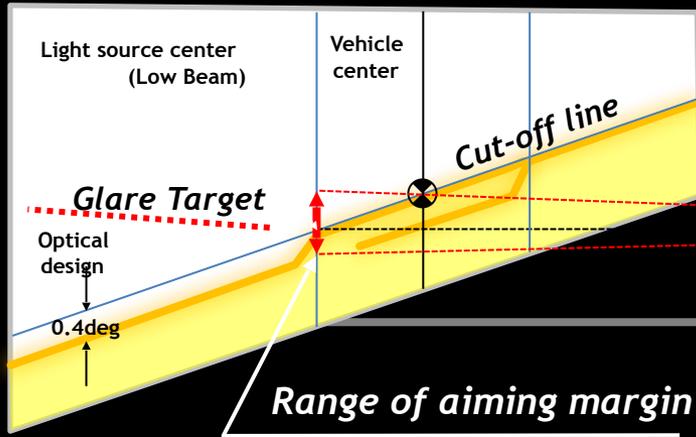
# Light pattern

**Changed** (Wide and Distance , Rudece glare)



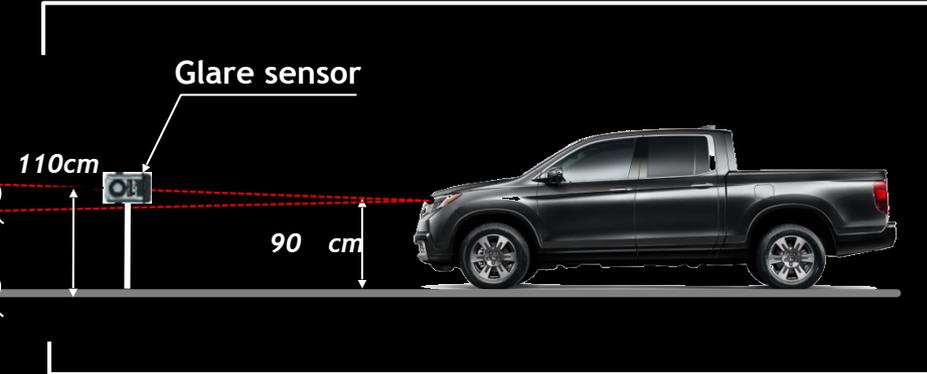
This pattern has being on Mass Product projector...

# Optical axis aiming



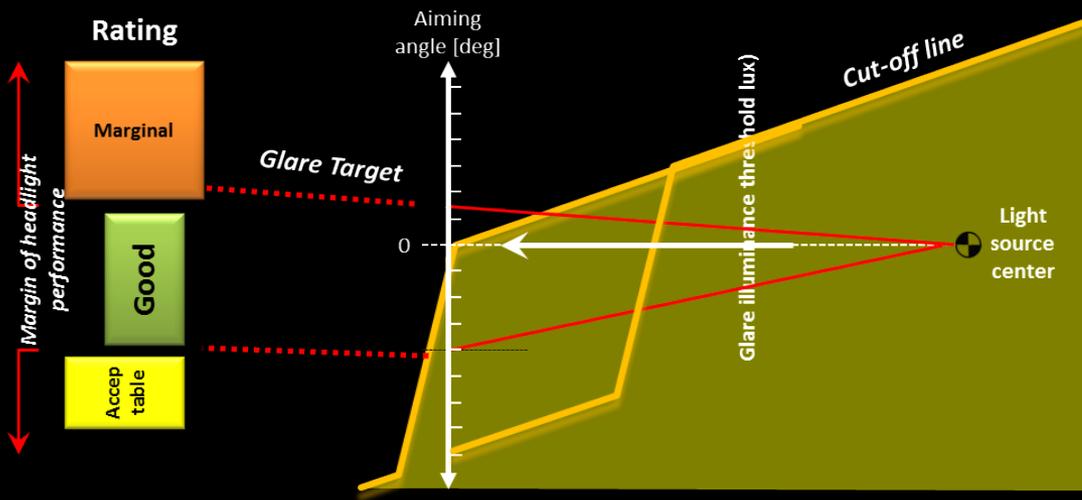
Optical aiming : VOR

Test conditions of IIHS

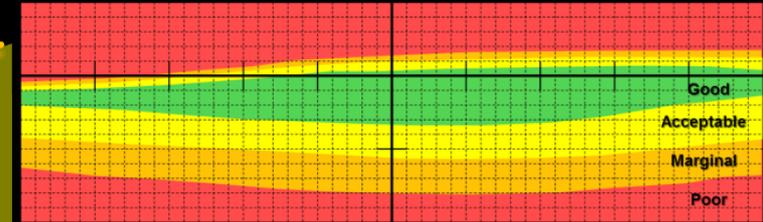


Impact by locating height of headlight

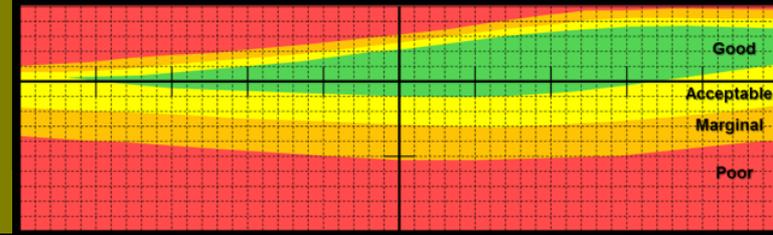
Impact by tolerance of factory aiming



Sedan Type

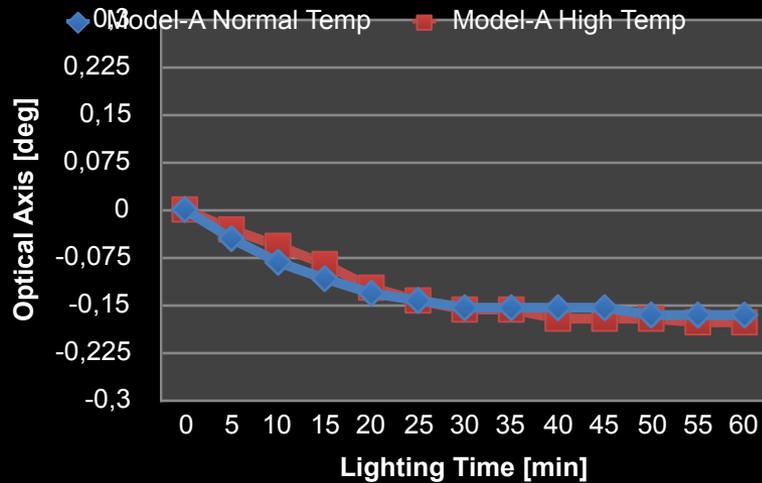


SUV Type

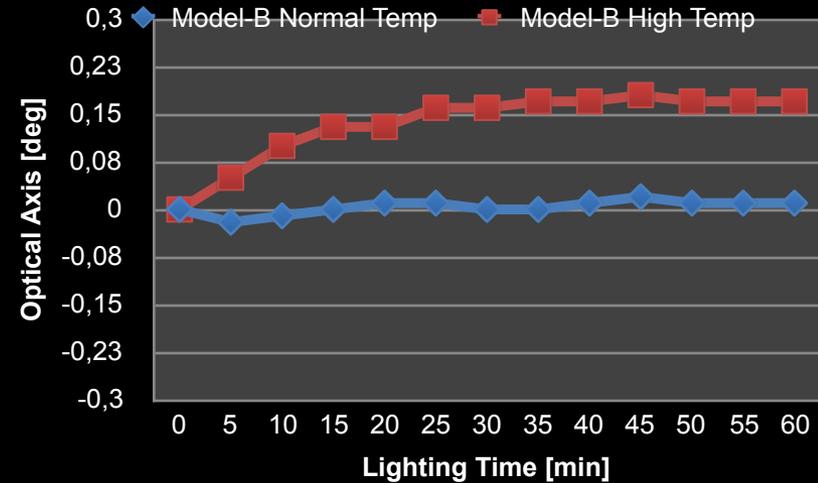


# Cut-off position changed by thermal

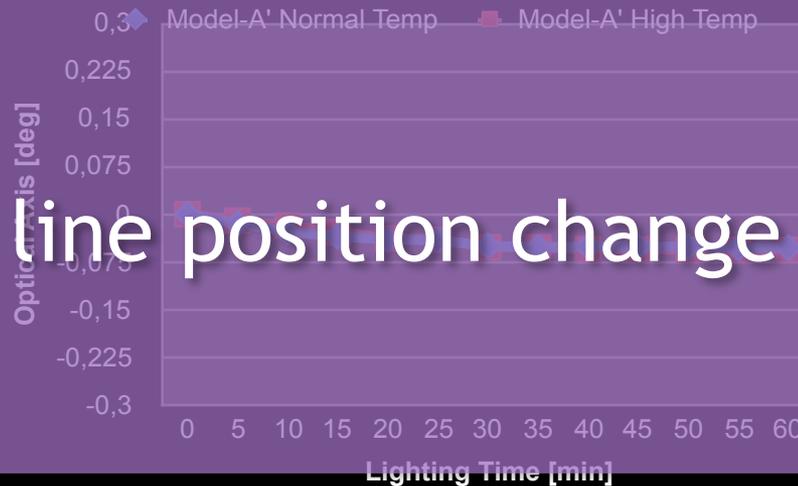
## Cutline Location



## Cutline Location



## Cutline Location



Reduce cut line position change by thermal!

# Safety award

**2018** TOP SAFETY PICK 

**2019 Honda Ridgeline**

Large pickup

Headlights

Good



NORTH AMERICAN  
**LIGHTING**  
A  Group Company

# Safety award

**2019** TOP SAFETY PICK+ ⓘ  
**2019 Acura RDX**  
Midsize luxury SUV

Headlights

Good



# Safety award

**2019** TOP SAFETY PICK ⓘ

**2019 Honda Pilot**

Midsized SUV

Headlights

Good



# Safety award

2019 **TOP SAFETY PICK+** ⓘ

**2019 Honda Insight**

Small car

IIHS

Good



**HONDA**

Honda Manufacturing of Indiana, LLC



NORTH AMERICAN  
**LIGHTING**  
A **KATO** Group Company

**HONDA**

The Power of Dreams