

# CAT 793

Model 526XL Light Maps



CAT 793

# Product Used 526XL

## **Features & Benefits**

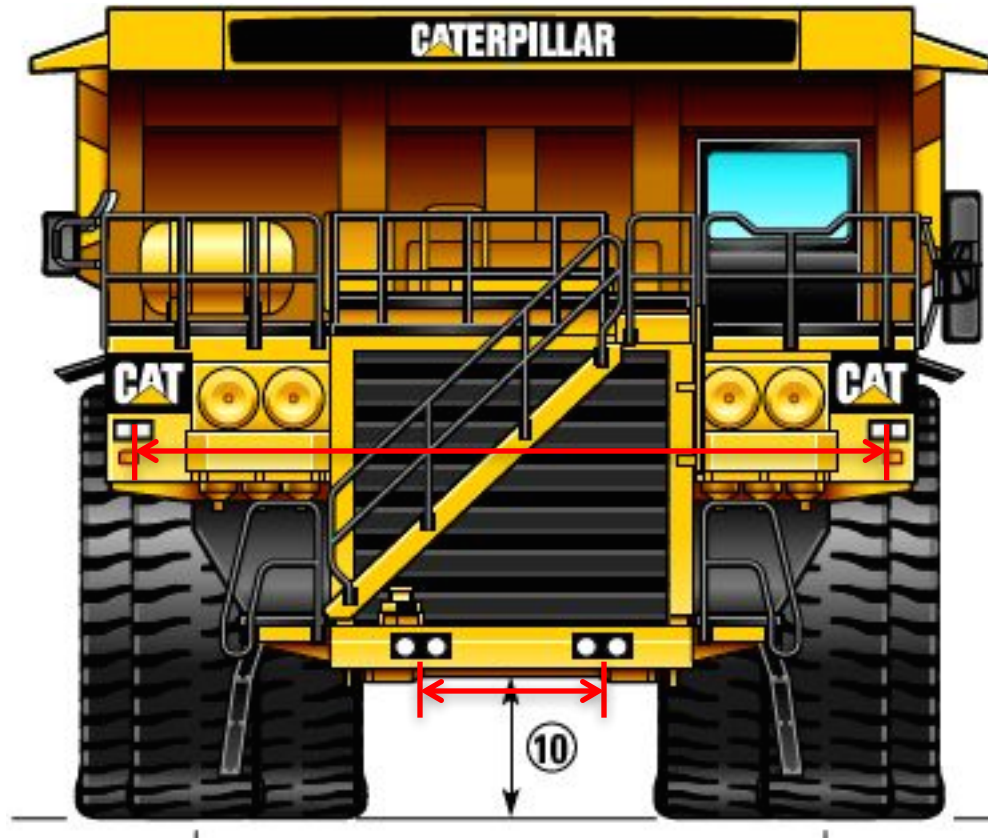
- 9,000 Raw Lumens; 5,800 (Flood, Spot, Trap), 5,500 (Anti-Glare) Effective
- Voltage: 12-24V DC configuration
- Flood, Spot, Trapezoid, & Anti-Glare beam patterns available
- Your choice of durable glass or polycarbonate lens options
- Rugged solid state LEDs can withstand shock & vibration Long-lasting LEDs mean never having to replace another bulb again!
- Die-cast aluminum housing provides maximum protection
- Universal pedestal mount



# Product Used 526XL

- 
- 4 x Model 526XL Anti Glare Passing Beam mounted at bottom for low beam at 20 degrees
  - 2 x Model 526XL Flood beam left and right hand outer at 5 degrees
  - 2 x Model 526XL Trap beam left and right hand inner at 5 degrees
  - 2 x Model 526XL Flood beam at rear 5 degrees
  - All Model 526XL LED Lamps replace standard halogen work lamps

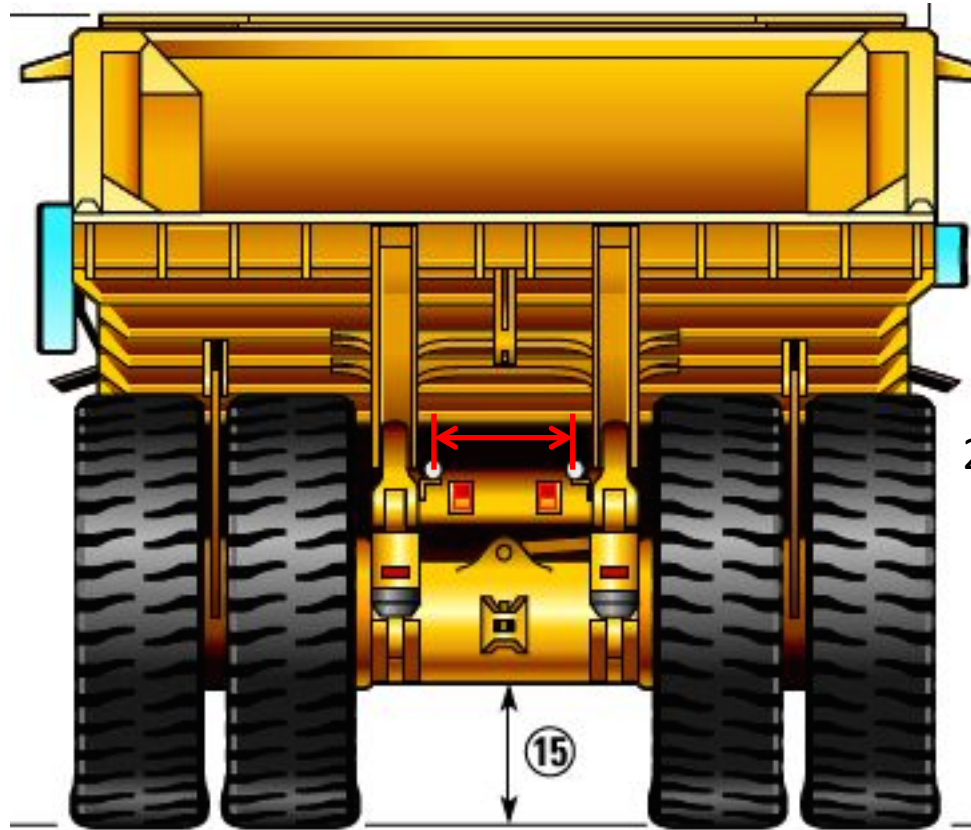
# CAT 793 Set Up



4.5m to center 526 Hi  
Beam Flood and Trap

2m to center 526 Low  
Beam Anti Glare

# CAT 793 Set Up

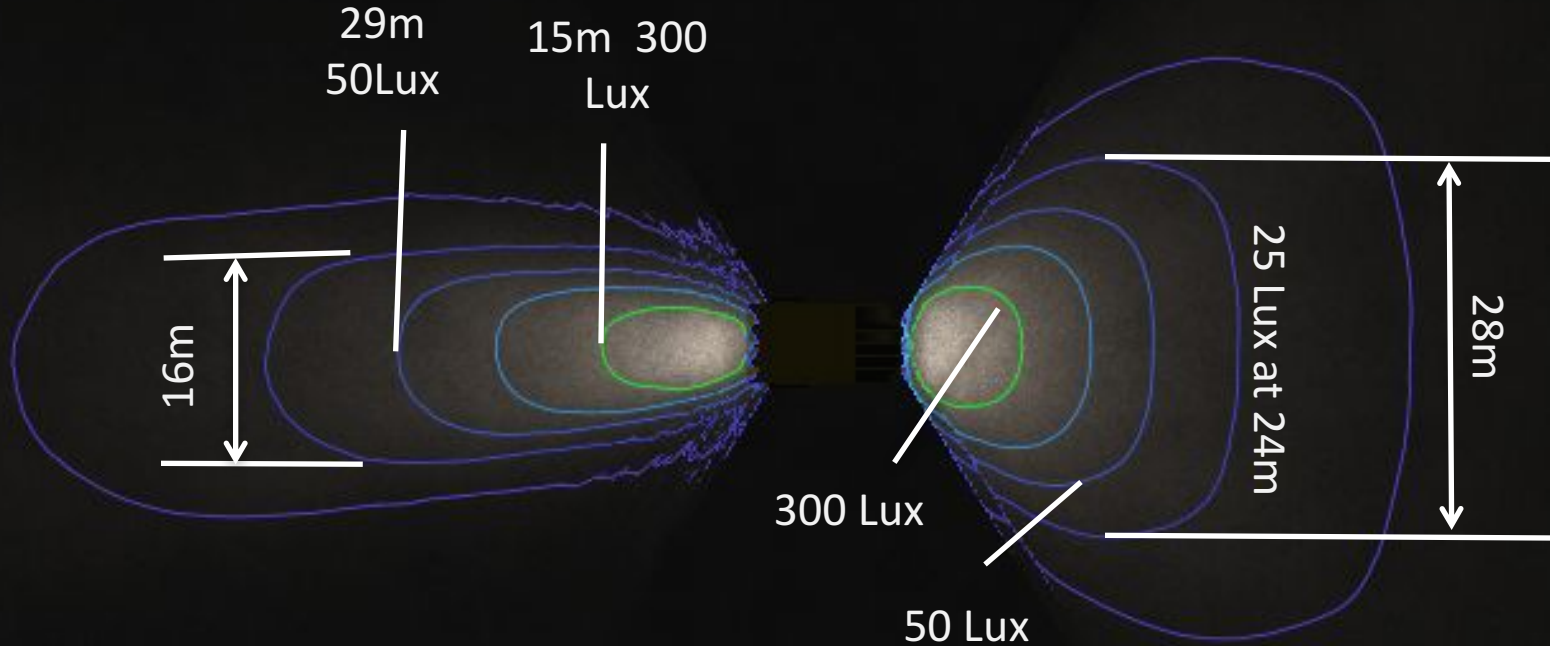


2m to center 526 Flood  
Beam

# VR Light Map with 526XL Anti Glare

526 XL Flood Back Up Rear

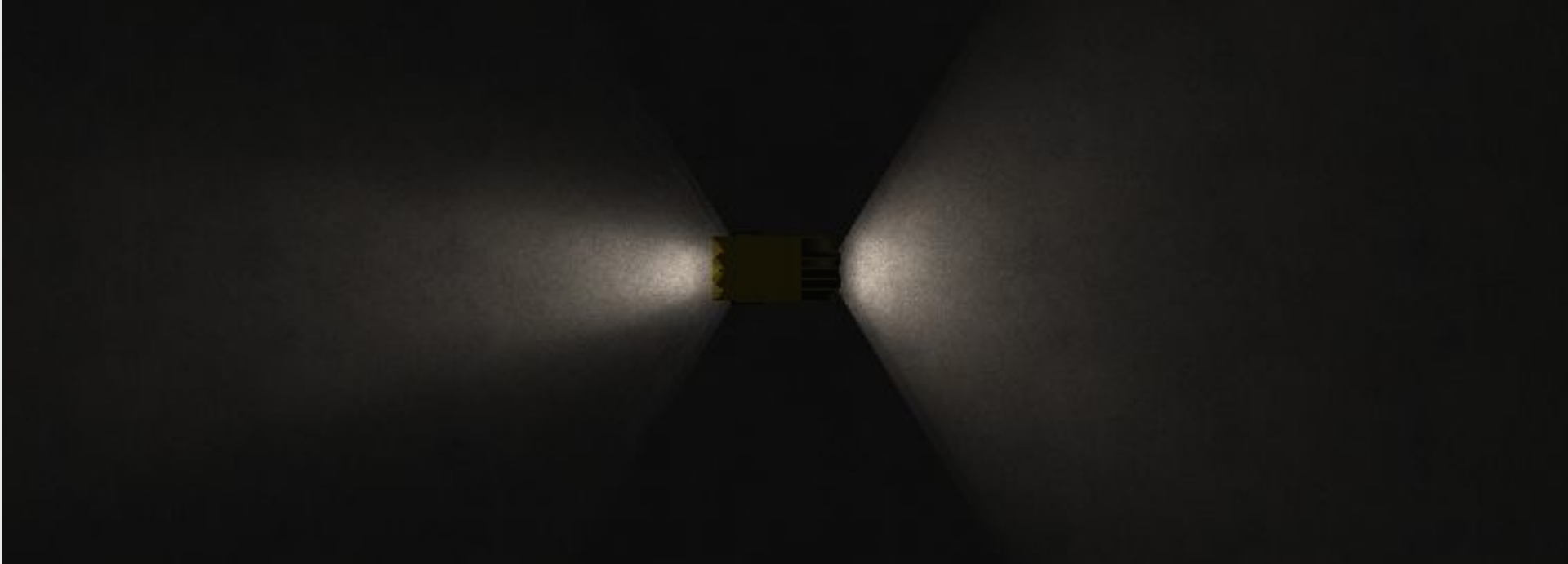
526XL **Anti Glare** Low Beam



# VR Light Map with 526XL Anti Glare

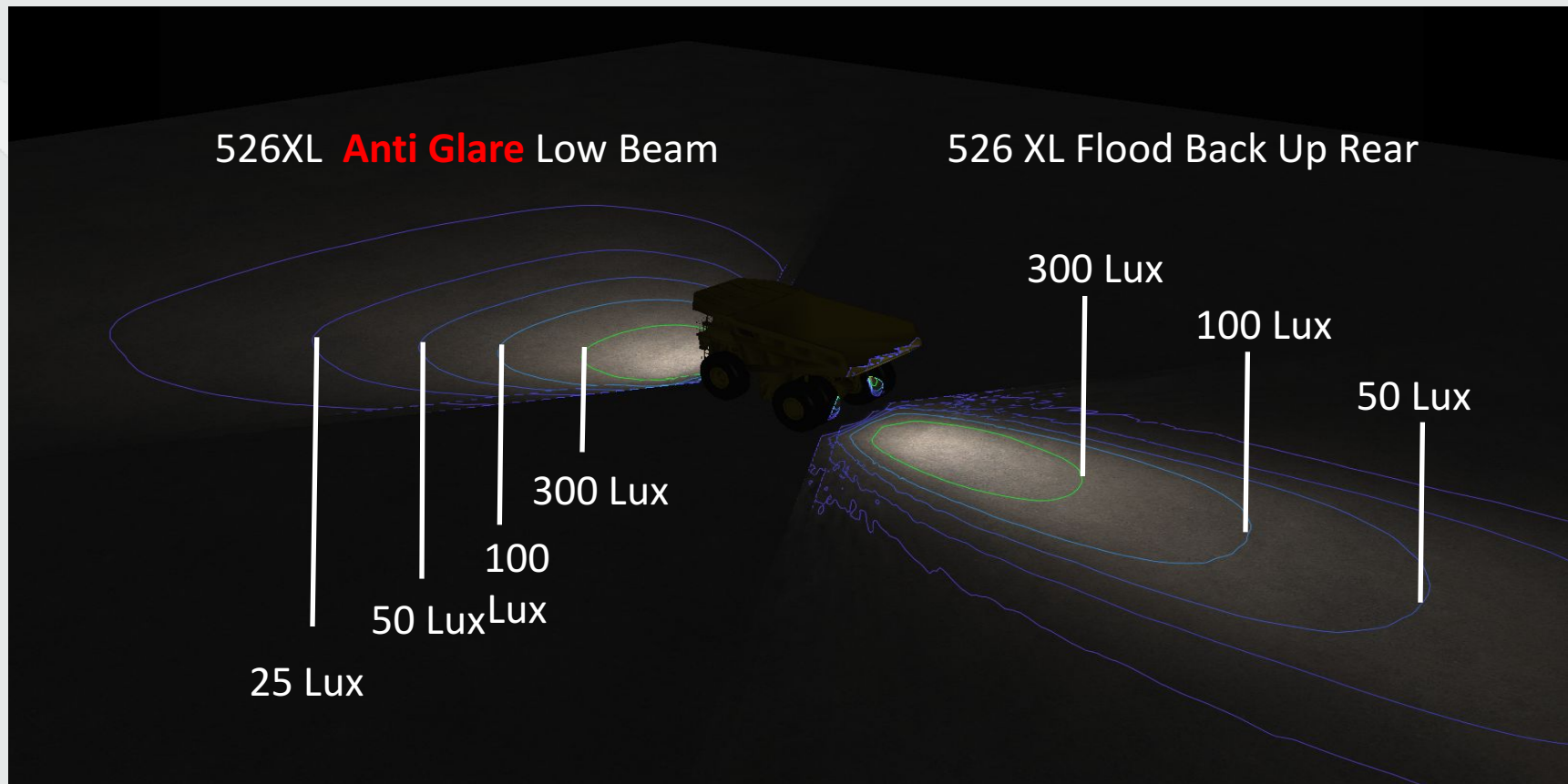
526 XL Flood Back Up Rear

526XL **Anti Glare** Low Beam





# ¾ VR Light Map with 526XL Anti Glare



# ¾ VR Light Map with 526XL Anti Glare

526XL **Anti Glare** Low Beam

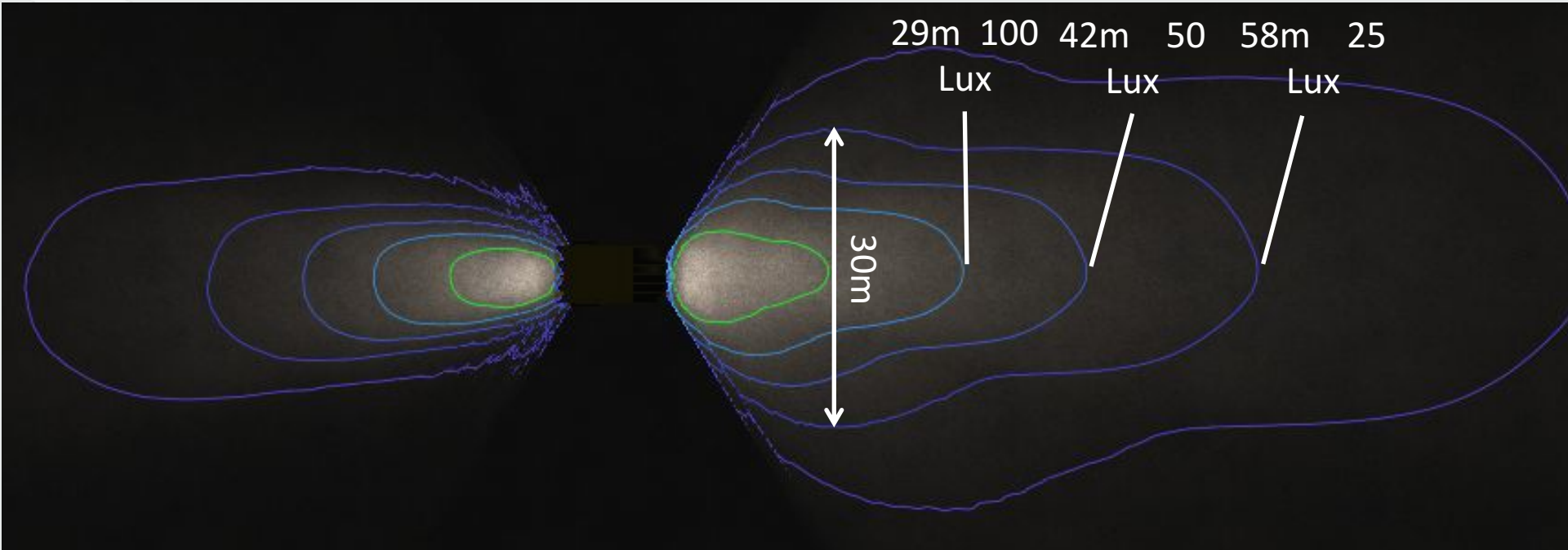
526 XL Flood Back Up Rear



# VR Light Map with 526XL Hi Beam

526 XL Flood Back Up Rear

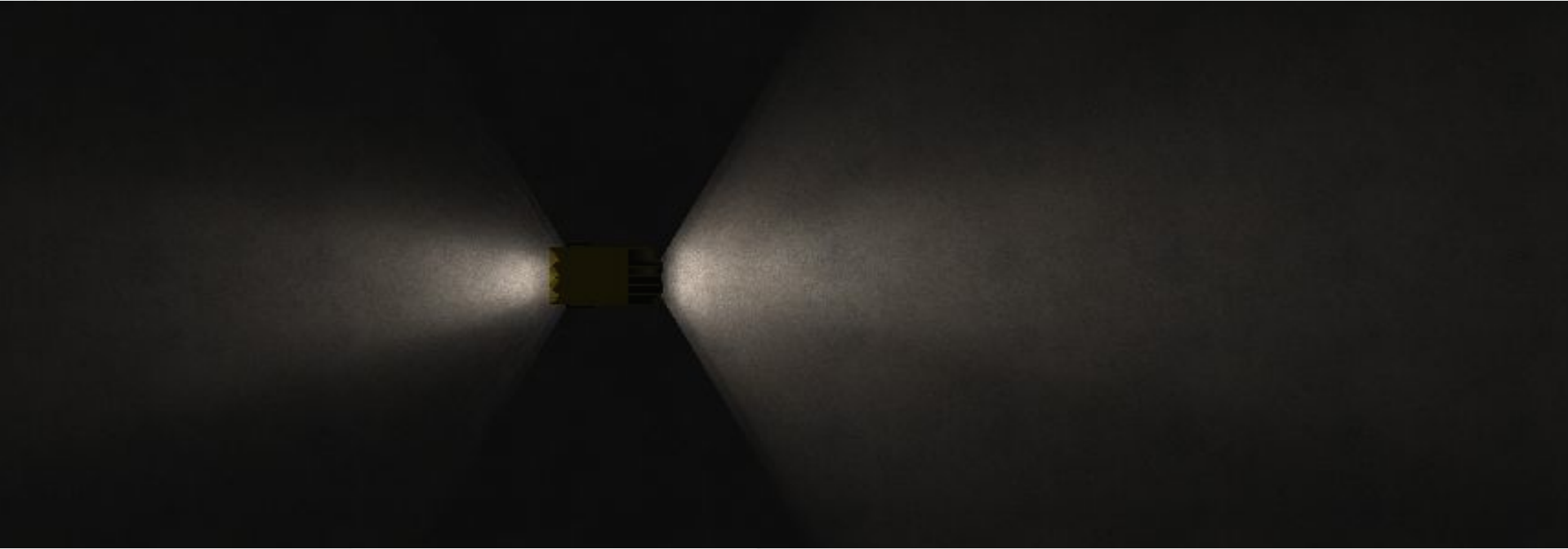
526XL Flood and Trap **Hi Beam**



# VR Light Map with 526XL Hi Beam

526 XL Flood Back Up Rear

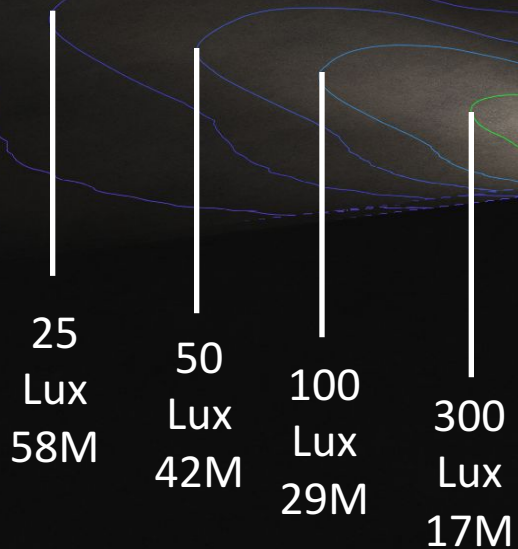
526XL Flood and Trap **Hi Beam**



# 3/4 VR Light Map with 526XL Hi Beam

526XL Flood and Trap **Hi Beam**

526 XL Flood Back Up Rear



# ¾ VR Light Map with 526XL Hi Beam

526XL Flood and Trap **Hi Beam**

526 XL Flood Back Up Rear



# Night Photo Haul Truck with 526XL

**J.W. SPEAKER**  
Engineered. Lighting. Solutions.

Model 526XL  
Anti Glare Low  
Beam





# Night Photo Haul Truck with 526XL

**J.W. SPEAKER**  
Engineered. Lighting. Solutions.

Model 526XL  
High Beam





# Night Photo Haul Truck with 526XL

**J.W. SPEAKER**  
Engineered. Lighting. Solutions.

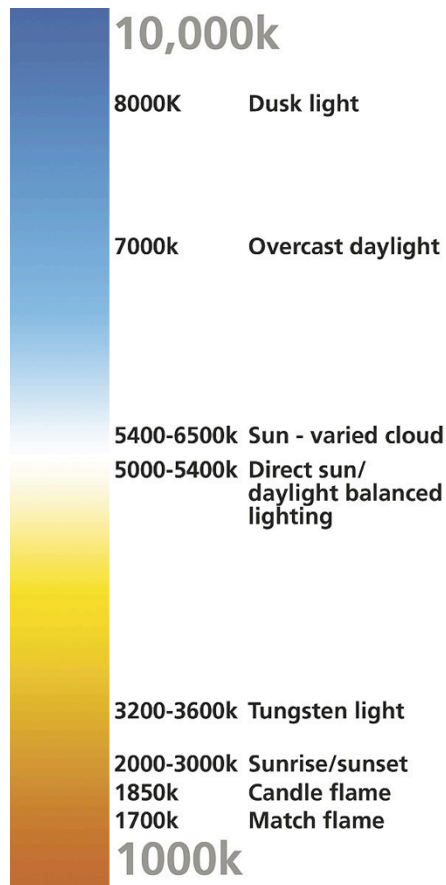
Model 526XL  
Back up rear



# Colour Temperature

- 526XL colour temperature is 5000 kelvin
- 5000K is high noon daylight which the human eye likes it true daylight safety colour for night outside work.
- J.W. Speaker, we not only select LEDs out of the highest lumen output bin but also accept only those LEDs with a color temperature of 5000K to 5500K, thus producing a light that truly shines like the sun at midday for safety at night!

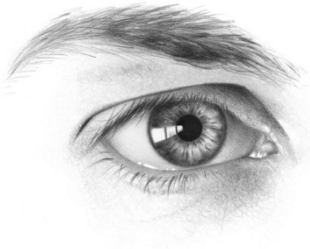
# Colour Temperature



Approx 30% of all accidents occur at night

50% of all accidents are the result of shortcomings in visual perception

The human brain absorbs 90% of all information through the eyes



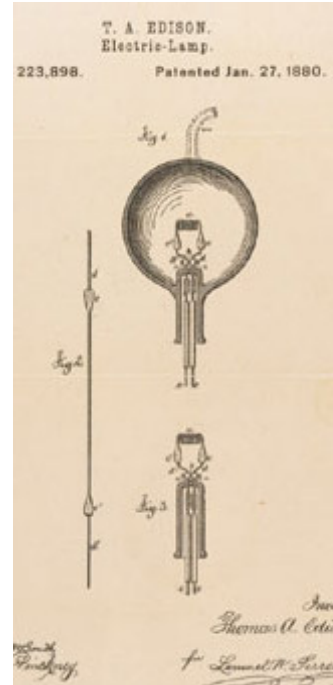
**The eye is the weak link at night**

# Lighting History

The light bulb was invented in 1879 by Thomas Edison.



The bulb fundamentals have not changed over the years



# Light – LED

The LED was invented in 1962 by Nick Holonyak, Jr., created the first practical visible light-emitting diode.



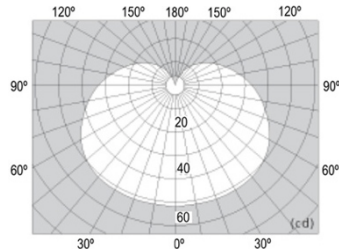
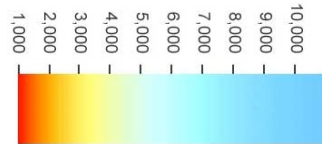
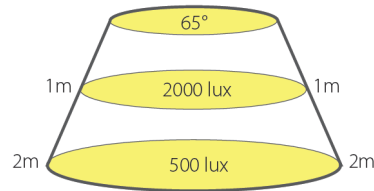
The disadvantage of bulbs is that most of the energy consumed is converted into heat rather than visible light.

Light Emitting Diode technology is changing this balance and luminous efficiencies 5 – 10 times to that of standard bulbs have been achieved.

Research is now suggesting that this results in improved visibility of LED lighting, particularly in adverse conditions such as heavy rain and fog.

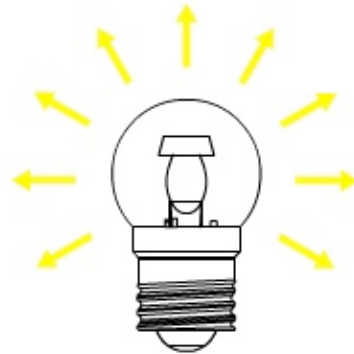


To design a lamp we only use 3 scientific discipline!



- Lux light require on the ground
- Kelvin light colour required
- Candela light require at angle

Lumens are not use to design a lamp



**Luminous flux**  
**Unit: lumen (lm)**

Thank you and any question