

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

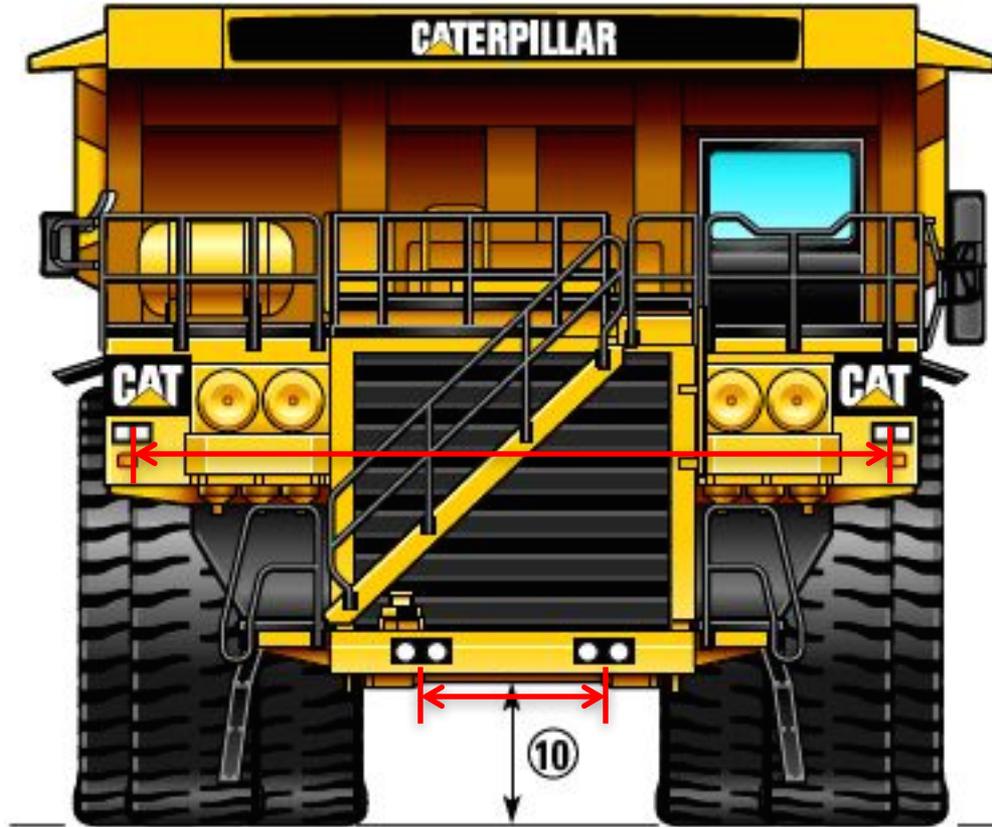


Product Used 526XL

- 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



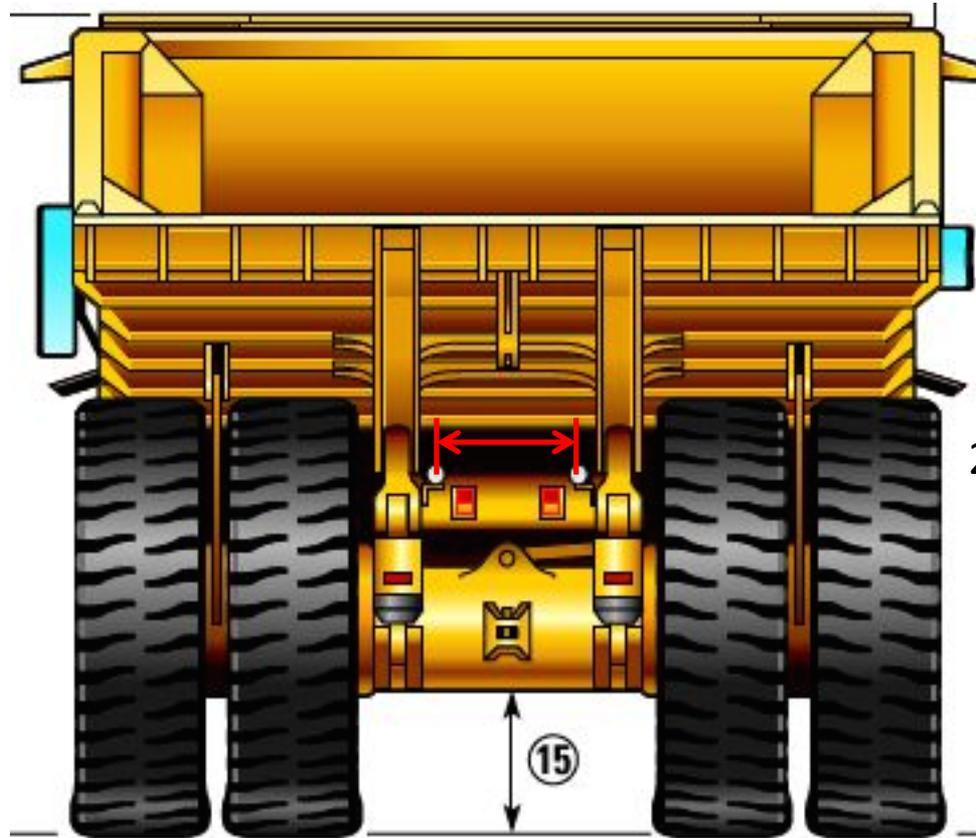
CAT 793 Set Up



4.5m to center 526 Hi
Beam Flood and Trap

2m to center 526 Low
Beam Anti Glare

CAT 793 Set Up

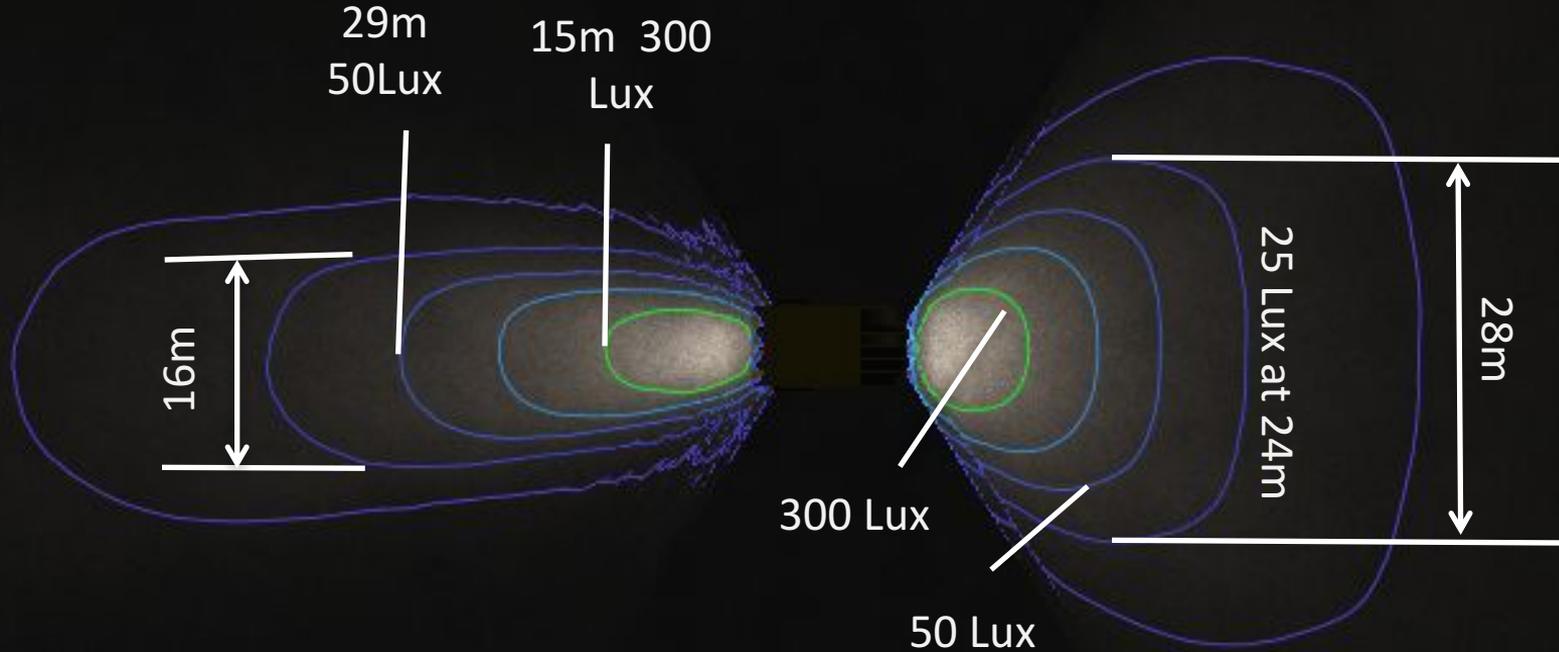


2m to center 526 Flood
Beam

VR Light Map with 526XL Anti Glare

526 XL Flood Back Up Rear

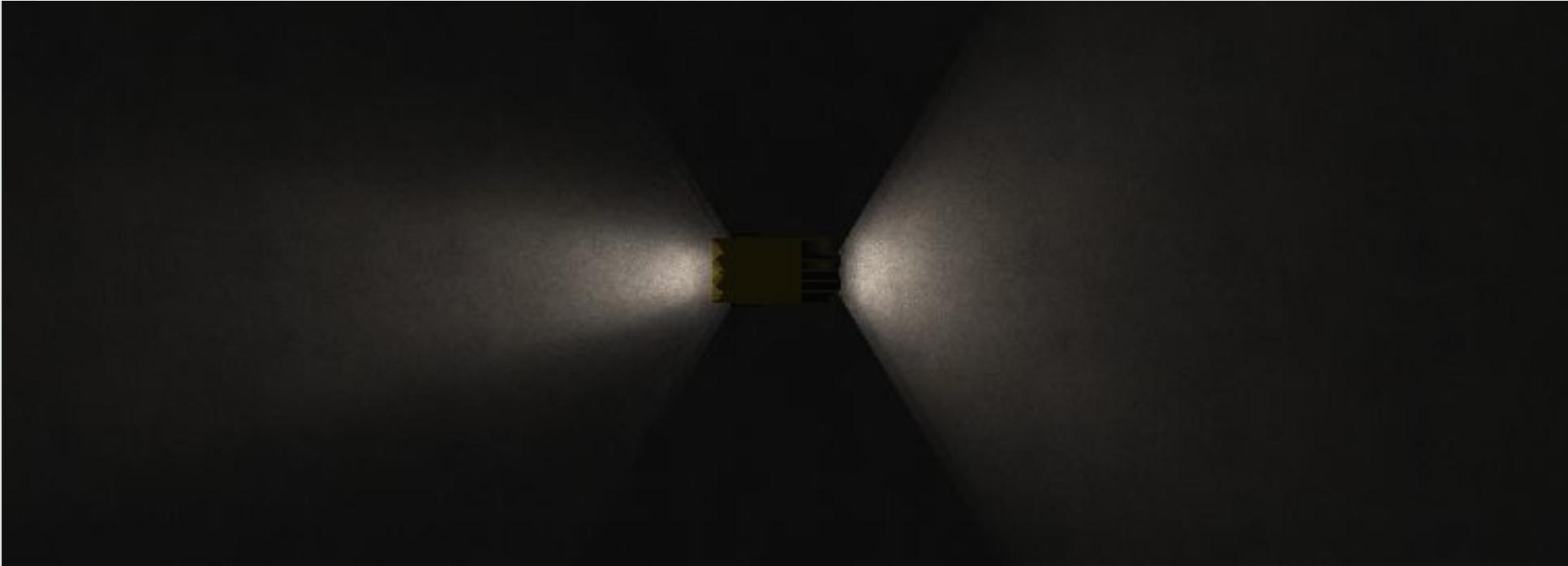
526XL **Anti Glare** Low Beam



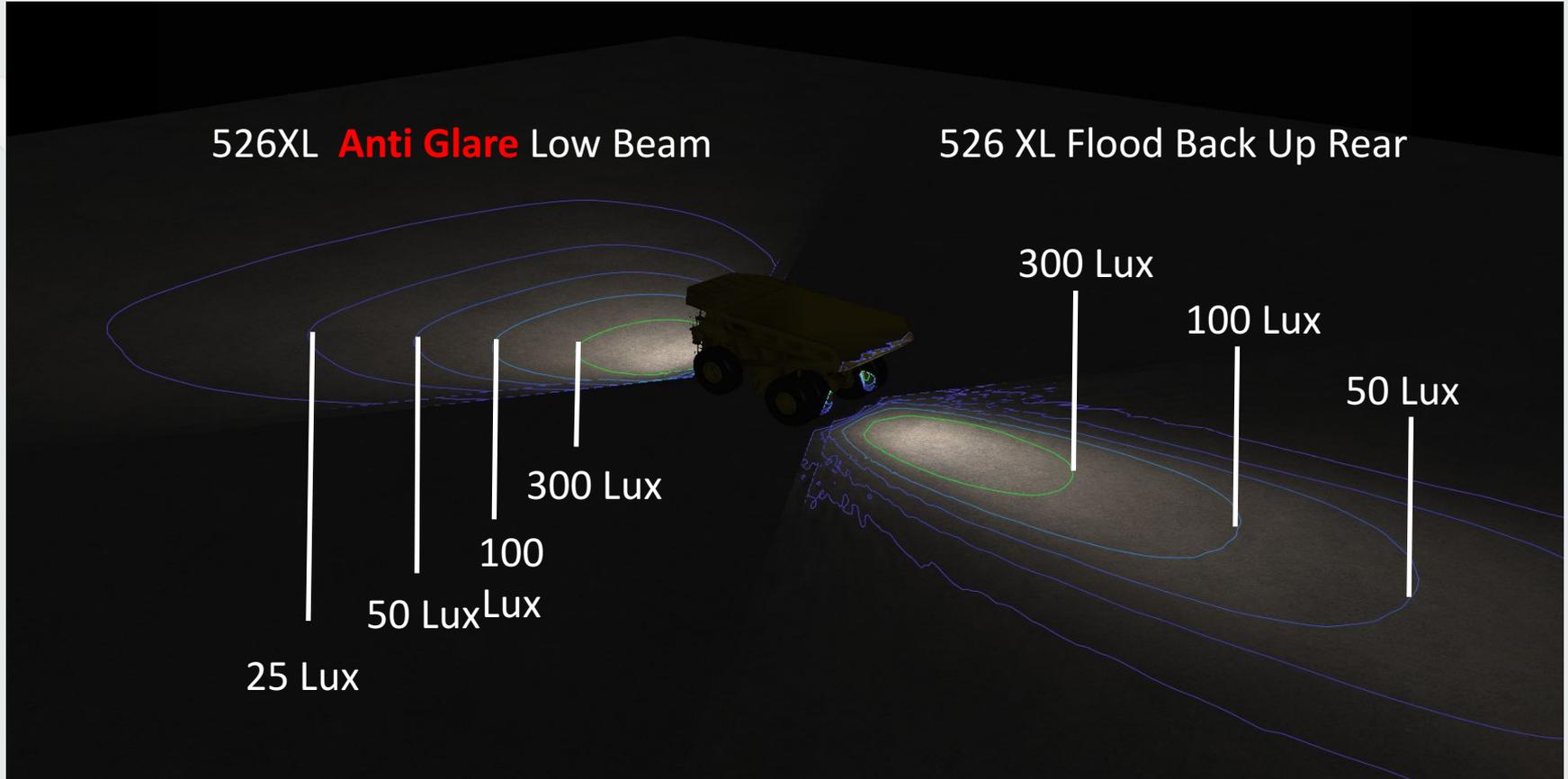
VR Light Map with 526XL Anti Glare

526 XL Flood Back Up Rear

526XL **Anti Glare** Low Beam



3/4 VR Light Map with 526XL Anti Glare



3/4 VR Light Map with 526XL Anti Glare

526XL **Anti Glare** Low Beam

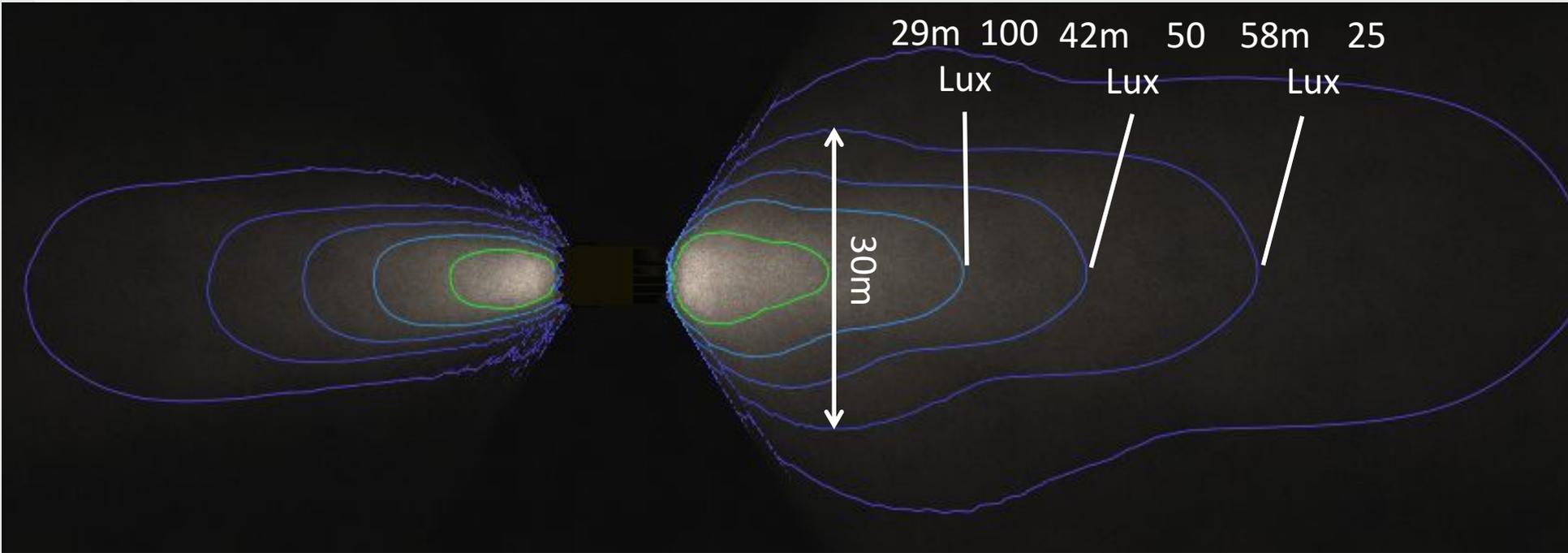
526 XL Flood Back Up Rear



VR Light Map with 526XL Hi Beam

526 XL Flood Back Up Rear

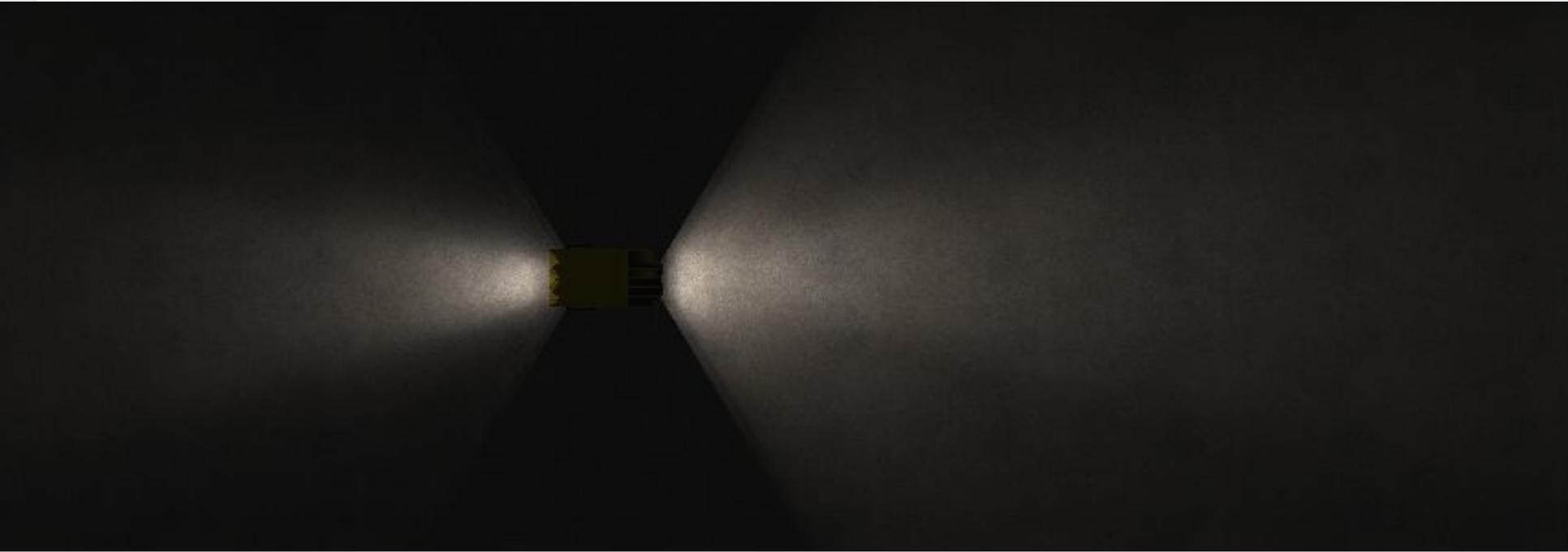
526XL Flood and Trap **Hi Beam**



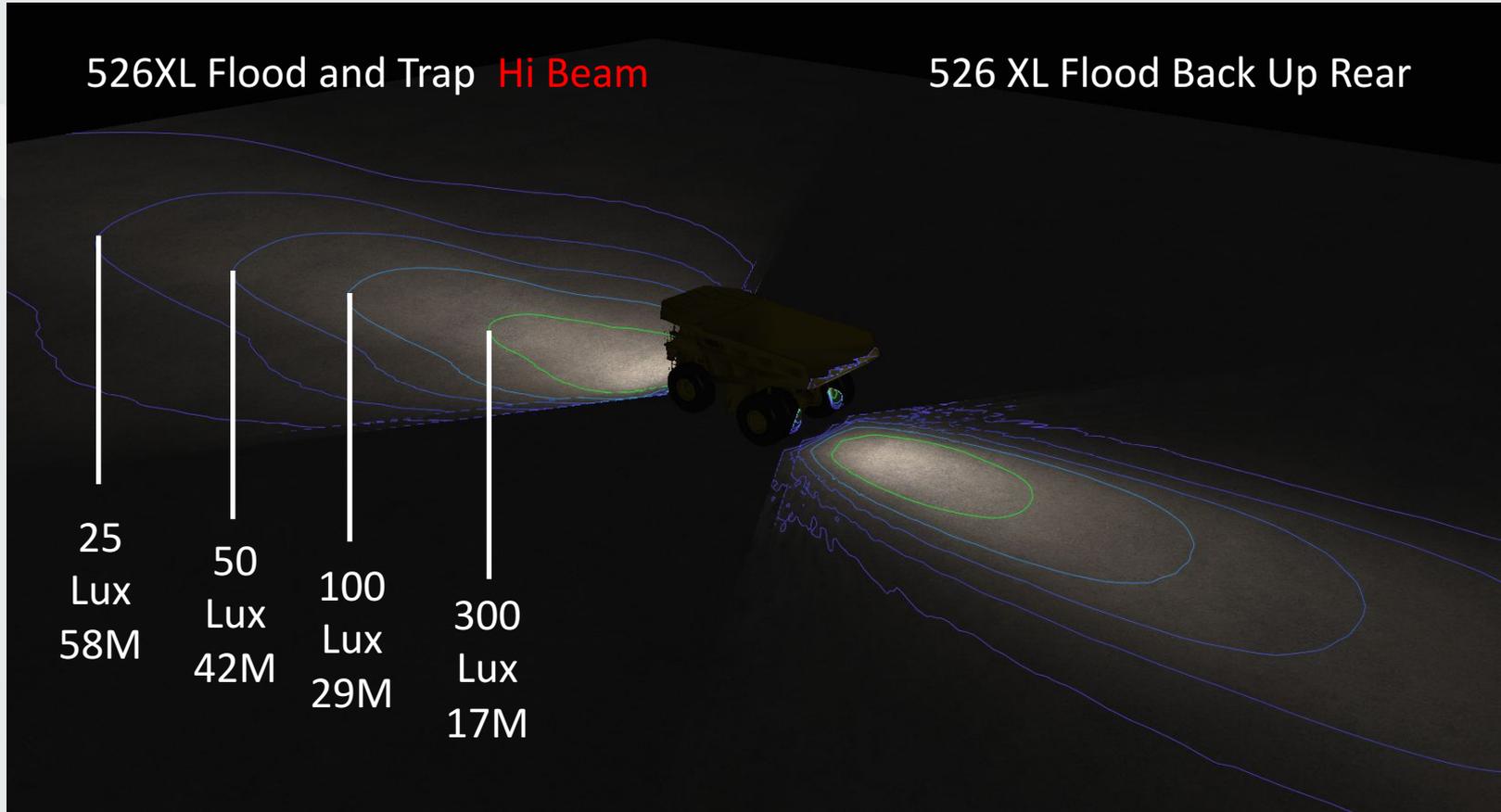
VR Light Map with 526XL Hi Beam

526 XL Flood Back Up Rear

526XL Flood and Trap **Hi Beam**



3/4 VR Light Map with 526XL Hi Beam



3/4 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

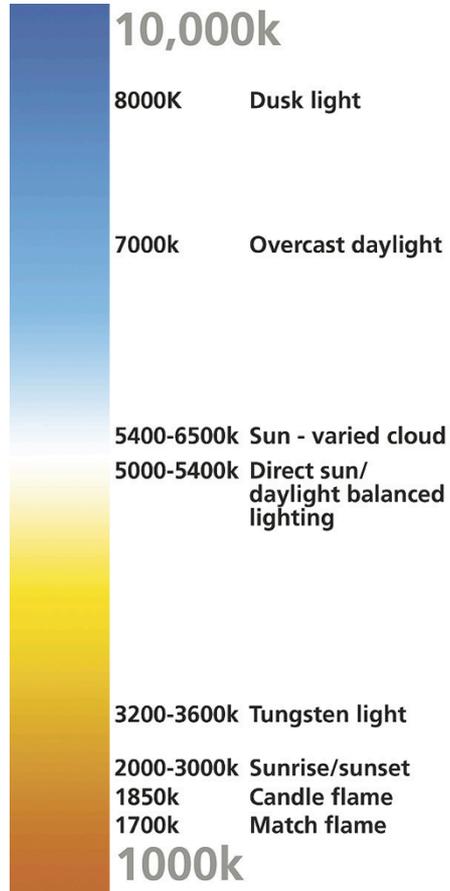


Model 526XL
Back up rear

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!

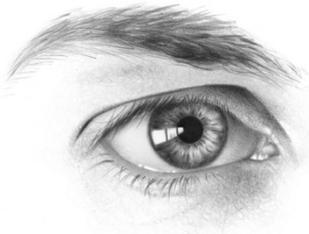
Colour Temperature



Approx **30%** of all accidents occur at night

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

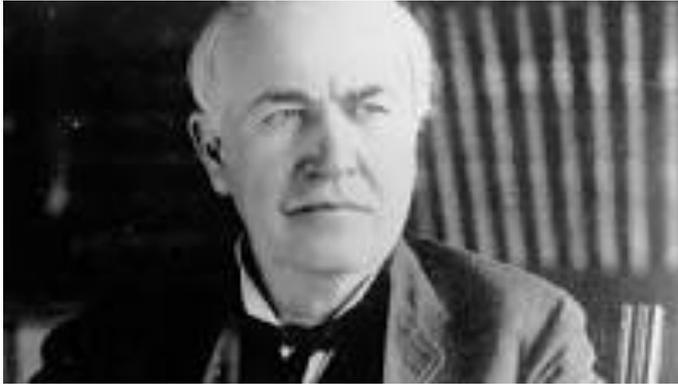
The human brain absorbs **90%** of all information through the eyes



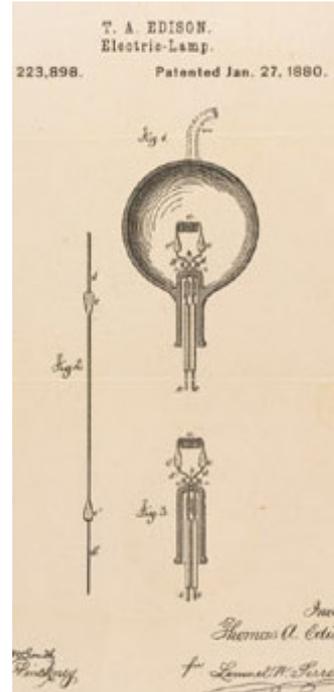
The eye is the weak link at night

Lighting History

The light bulb was invented in 1879 by Thomas Edison.



The bulb fundamentals have not changed over the years



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

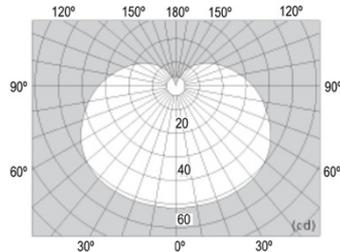
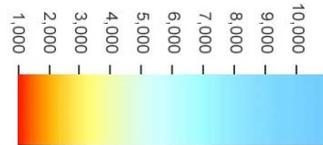
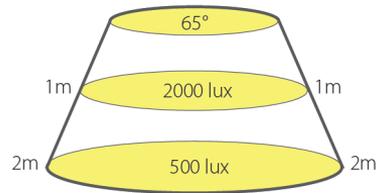


The disadvantage of bulbs is that most of the energy consumed is converted into heat rather than visible light.

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