

Ship to Shore Crane

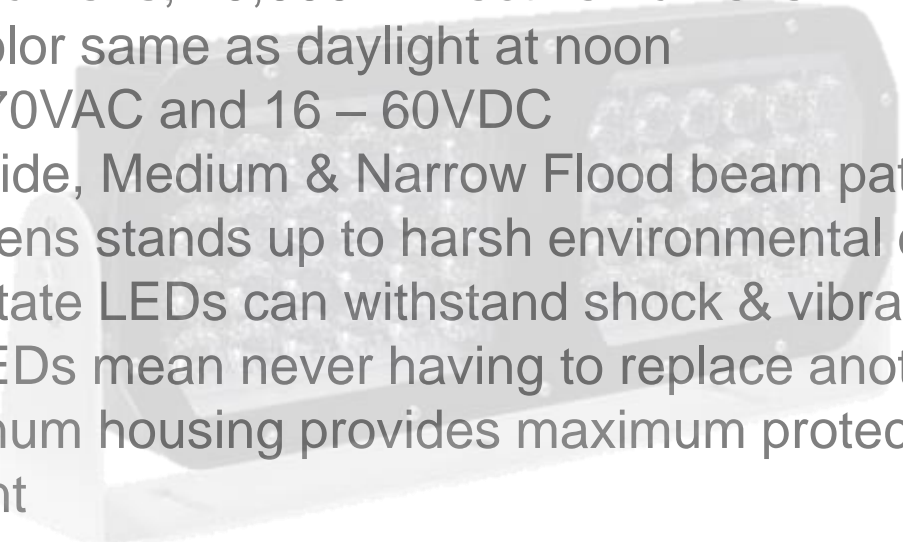
Model 623 Light Maps

Ship to Shore Crane

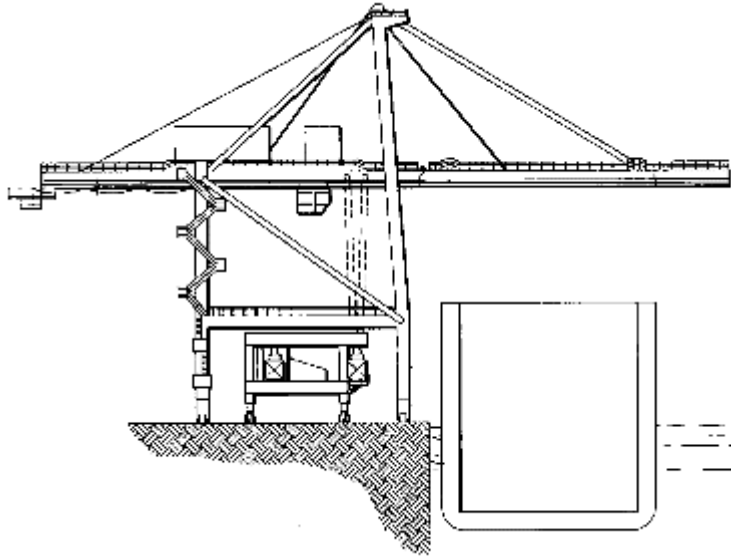


Product Used 623

Features & Benefits

- 40,000+ Raw Lumens; 20,000+ Effective Lumens
 - 5,700 Kelvin color same as daylight at noon
 - Available 80-270VAC and 16 – 60VDC
 - Super Wide, Wide, Medium & Narrow Flood beam patterns
 - Durable glass lens stands up to harsh environmental conditions
 - 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 mount
 - Weight 10kg
 - UL Approved
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Ship to Shore Crane Set Up

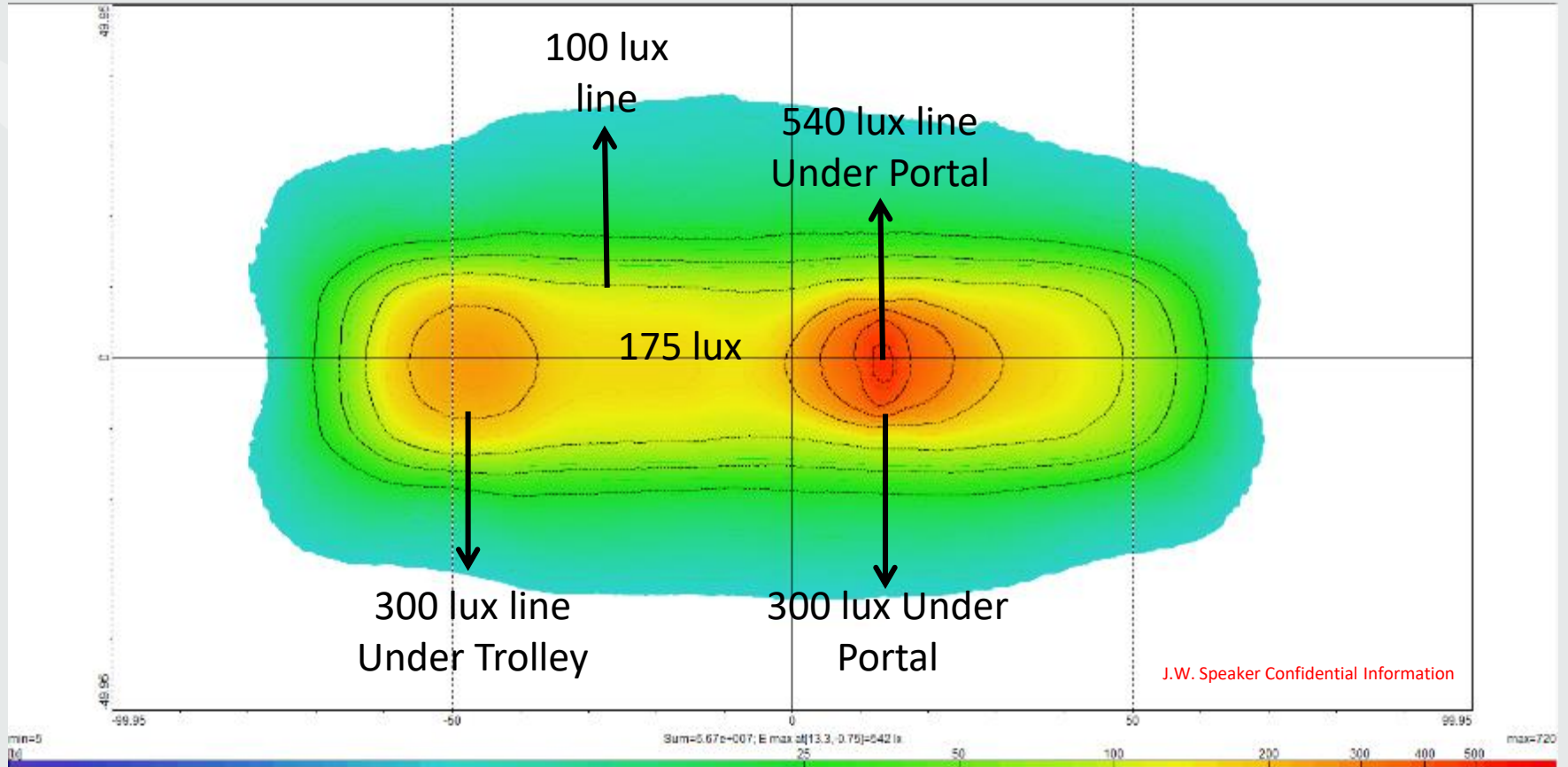


Requirement:

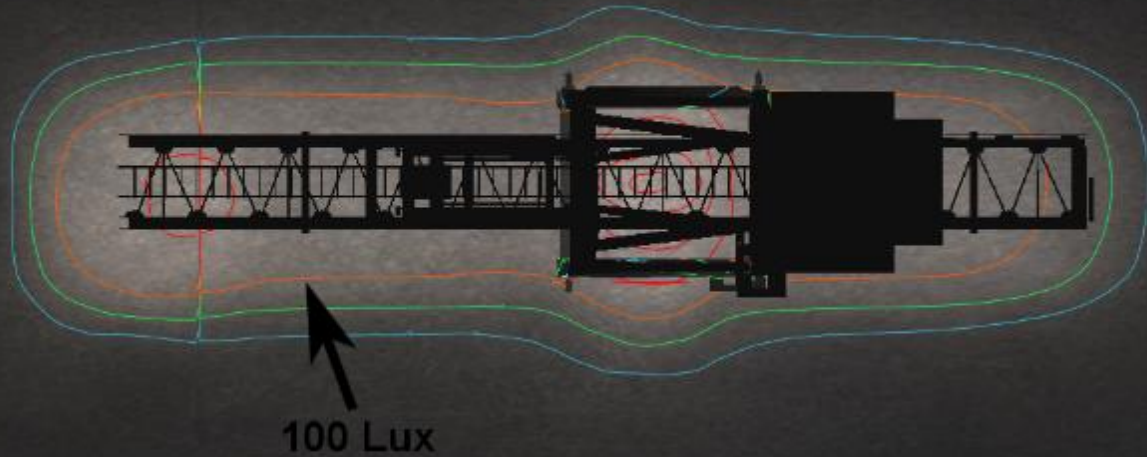
12 (center) Floodlight on the Boom 4.5 meters between the Floodlights 10 (center) Floodlight on the Girder (truck lanes & back-reach) and 4.5 meters between the Floodlights

- Boom – 12 X 44.7m off ground approx
- Girder – 10 X 44.7m off ground approx
- Portals – 4 X 16m off ground approx
- Trolley – 3 X 40m off ground approx
- Total 29 Model 623MF medium Flood Beam in all areas

Bird Eye View Lux with 623



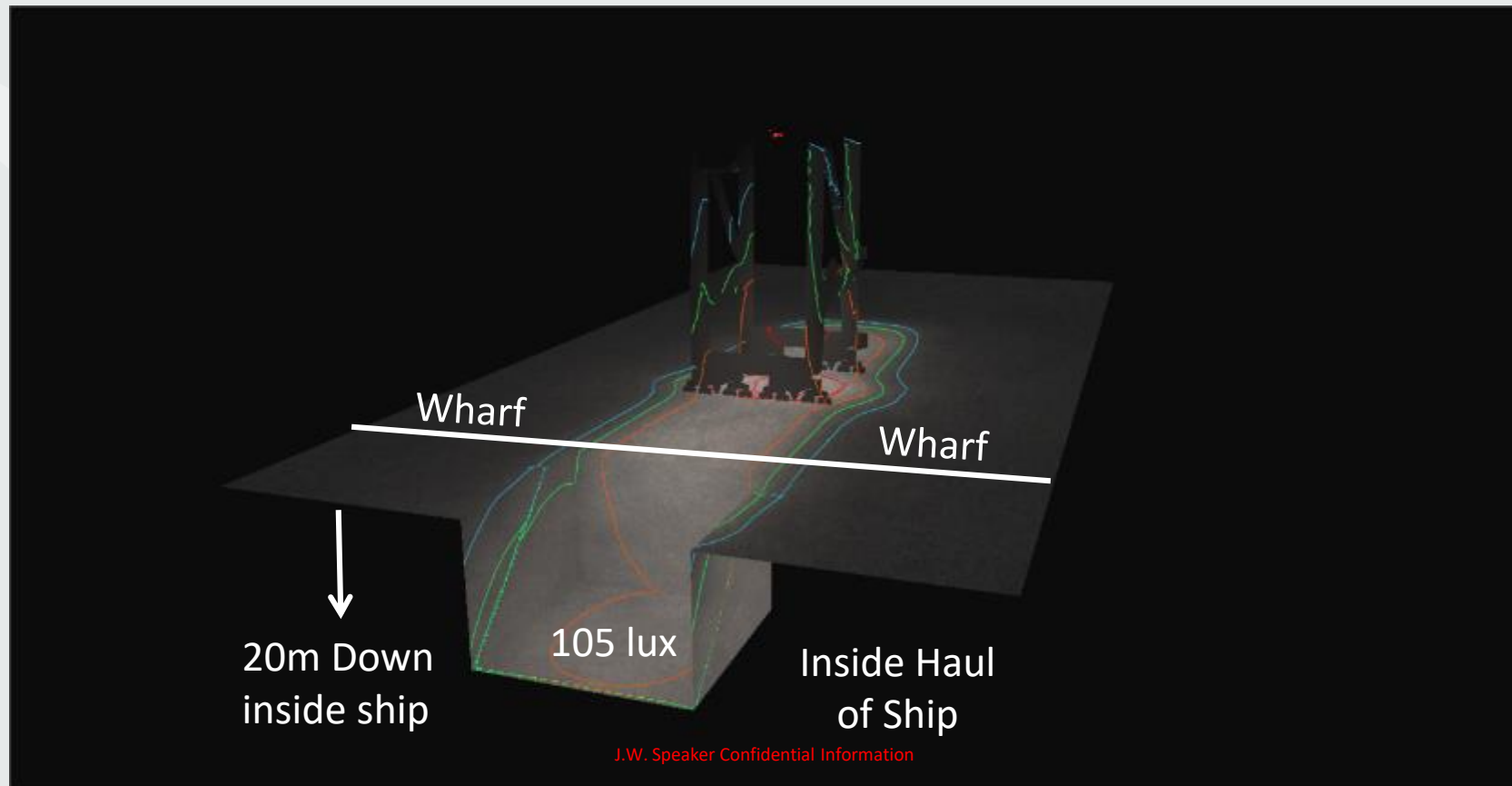
VR Light Map with 623



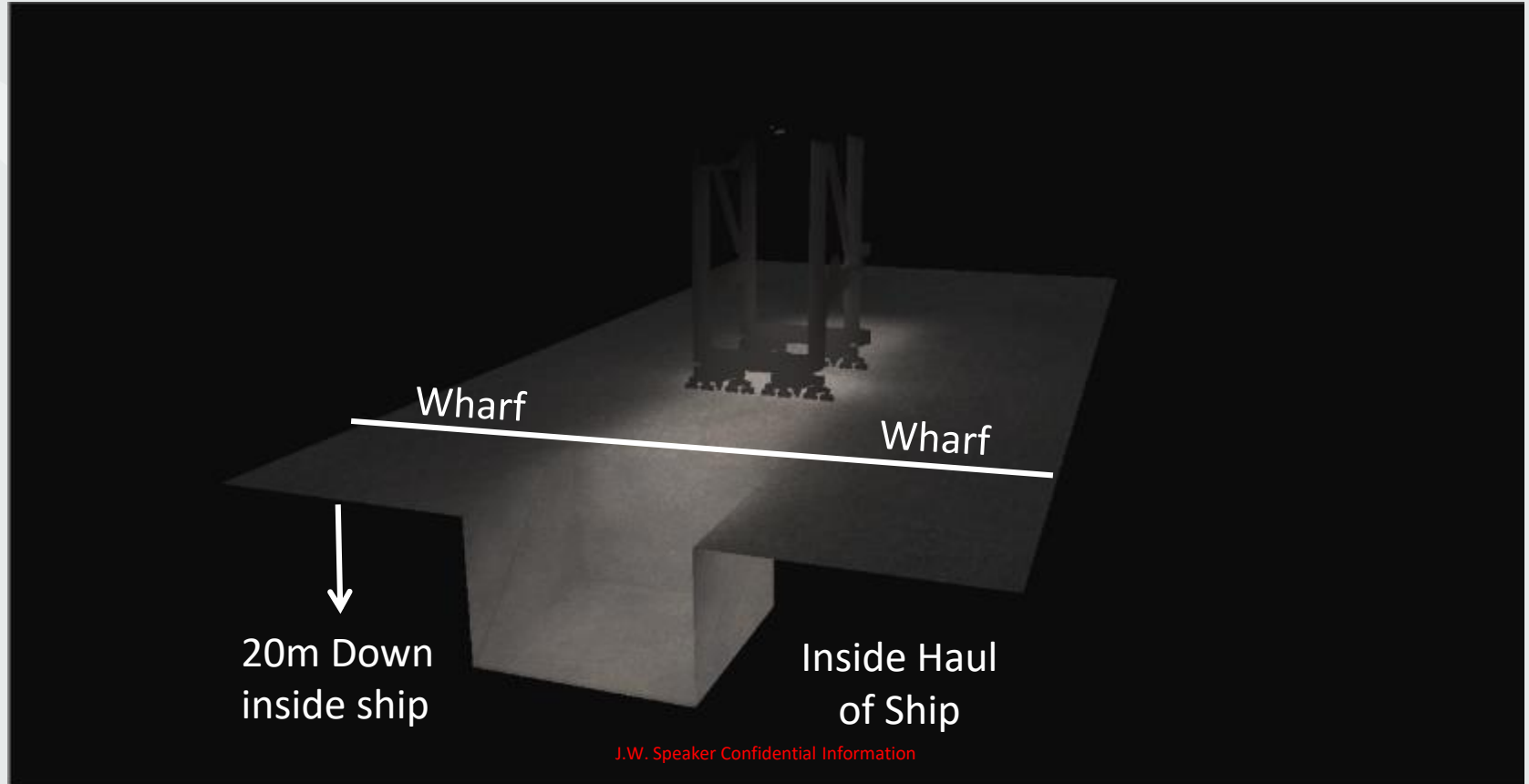
VR Light Map with 623



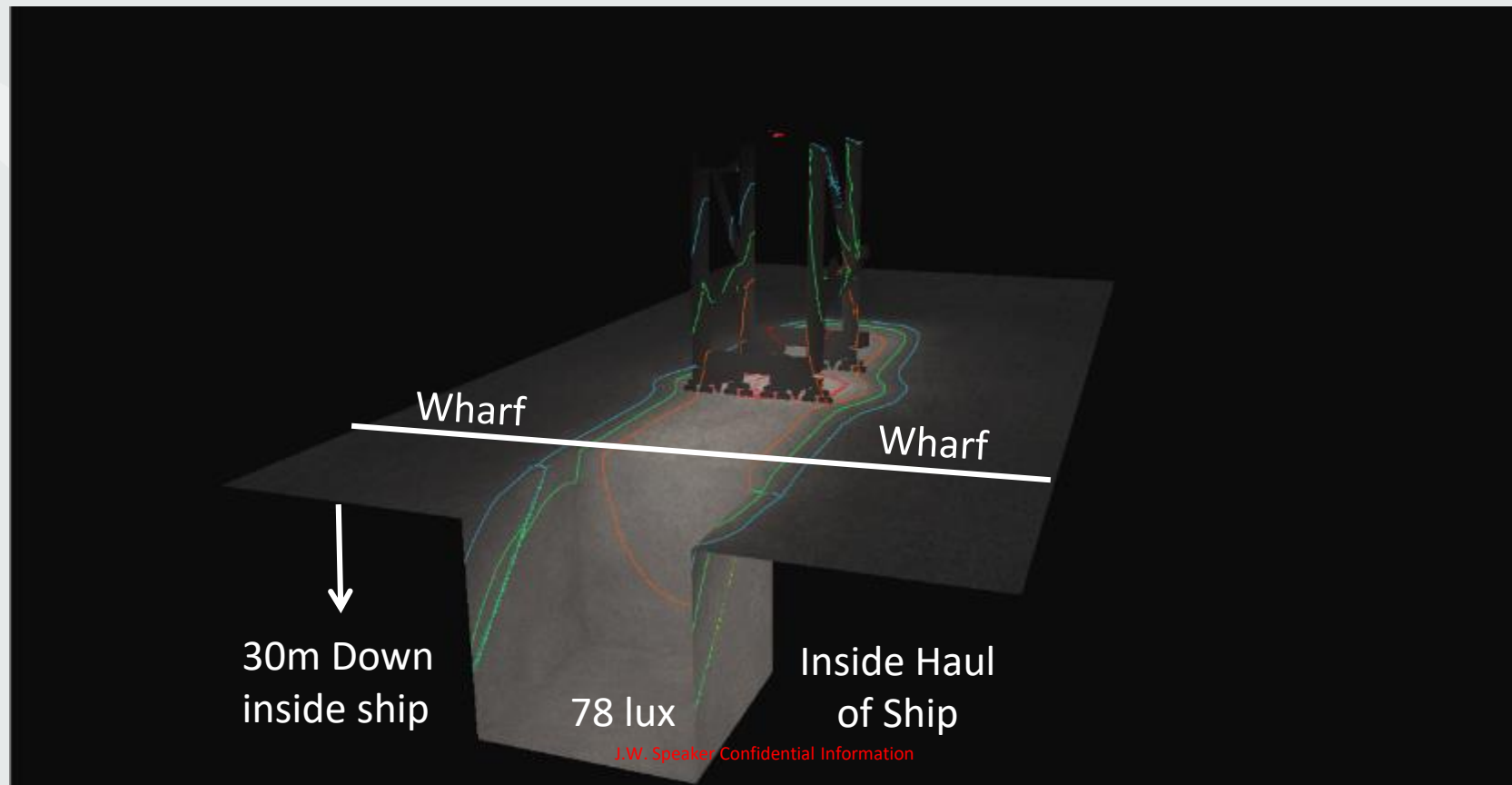
VR Light Map with 623



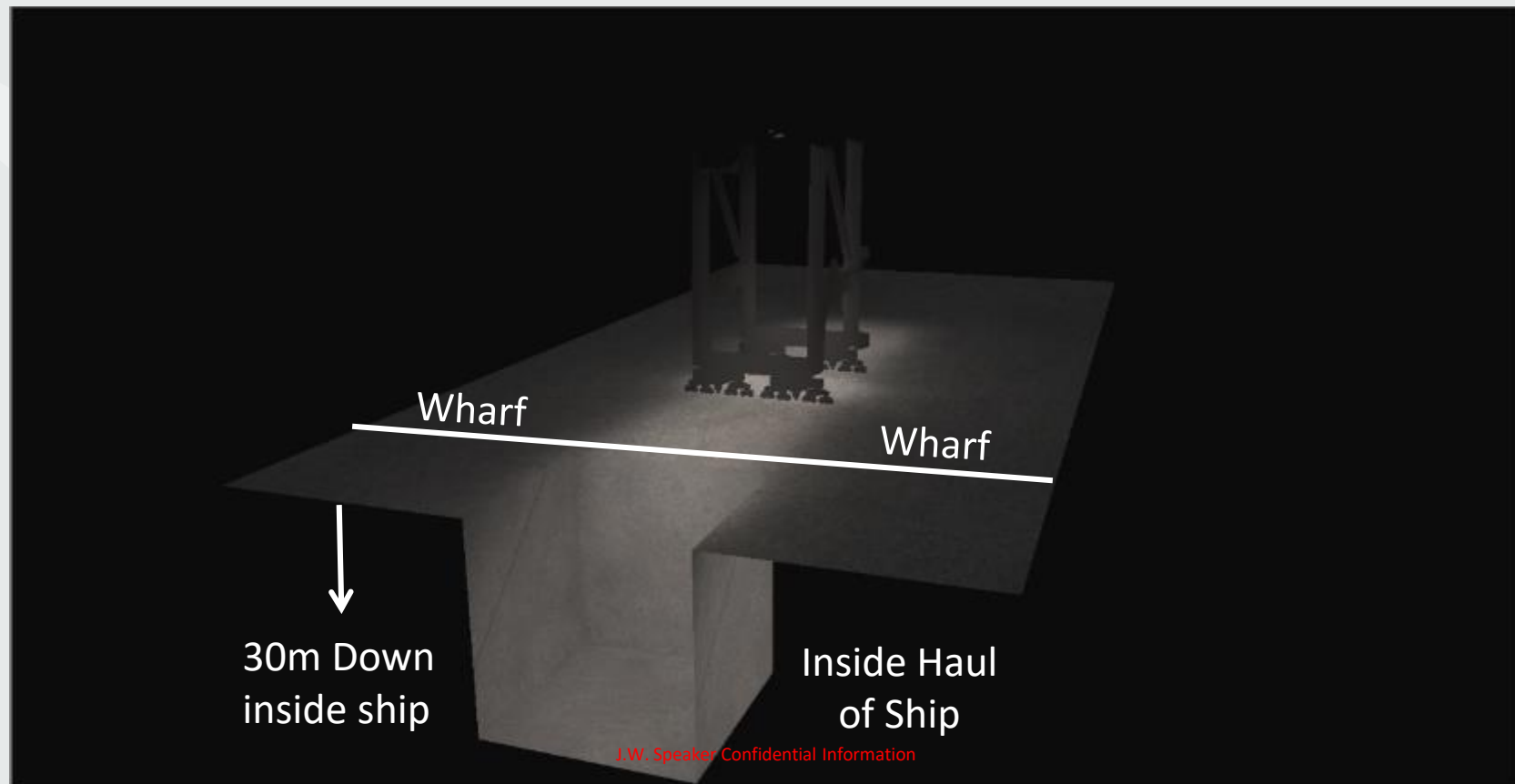
VR Light Map with 623



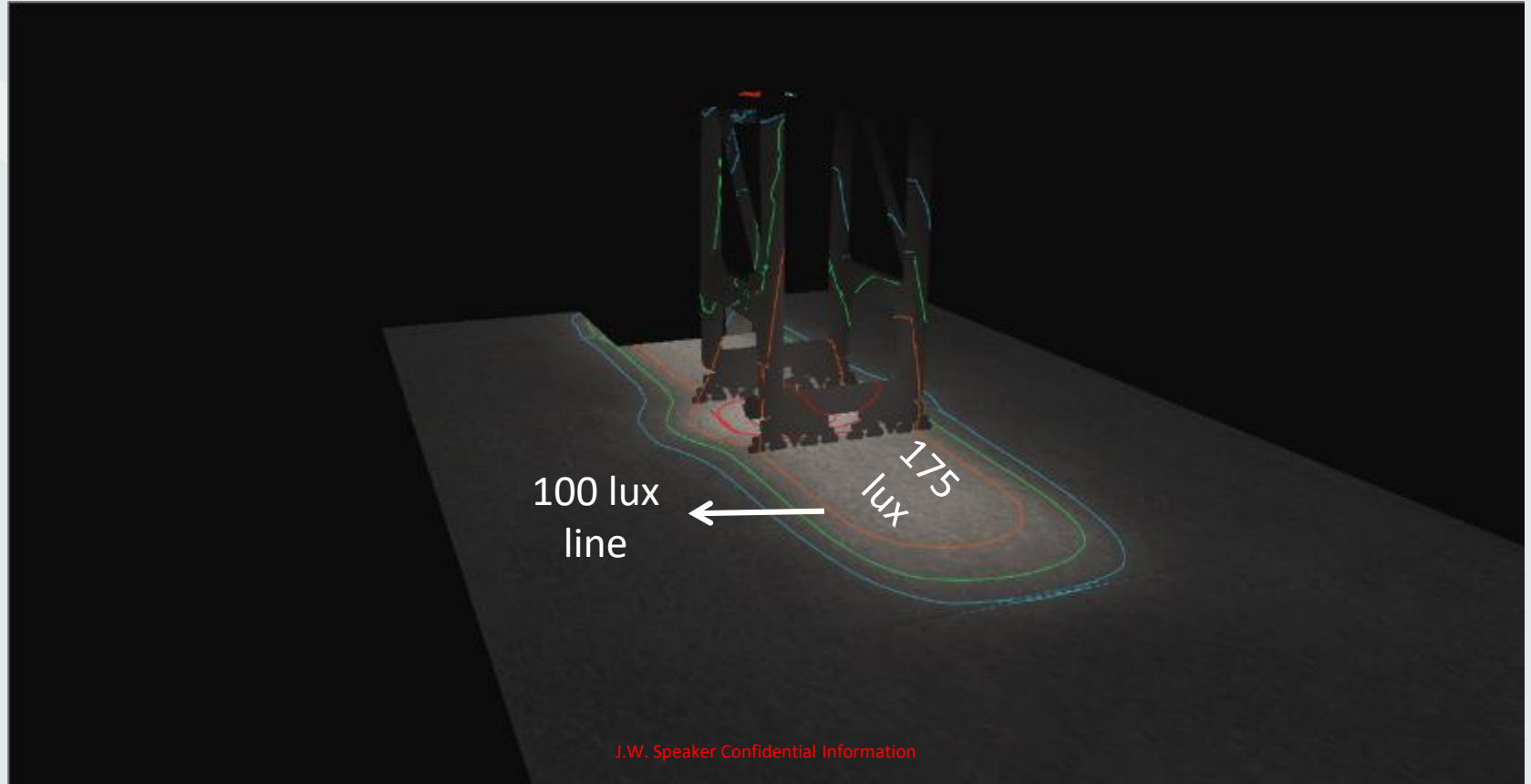
VR Light Map with 623



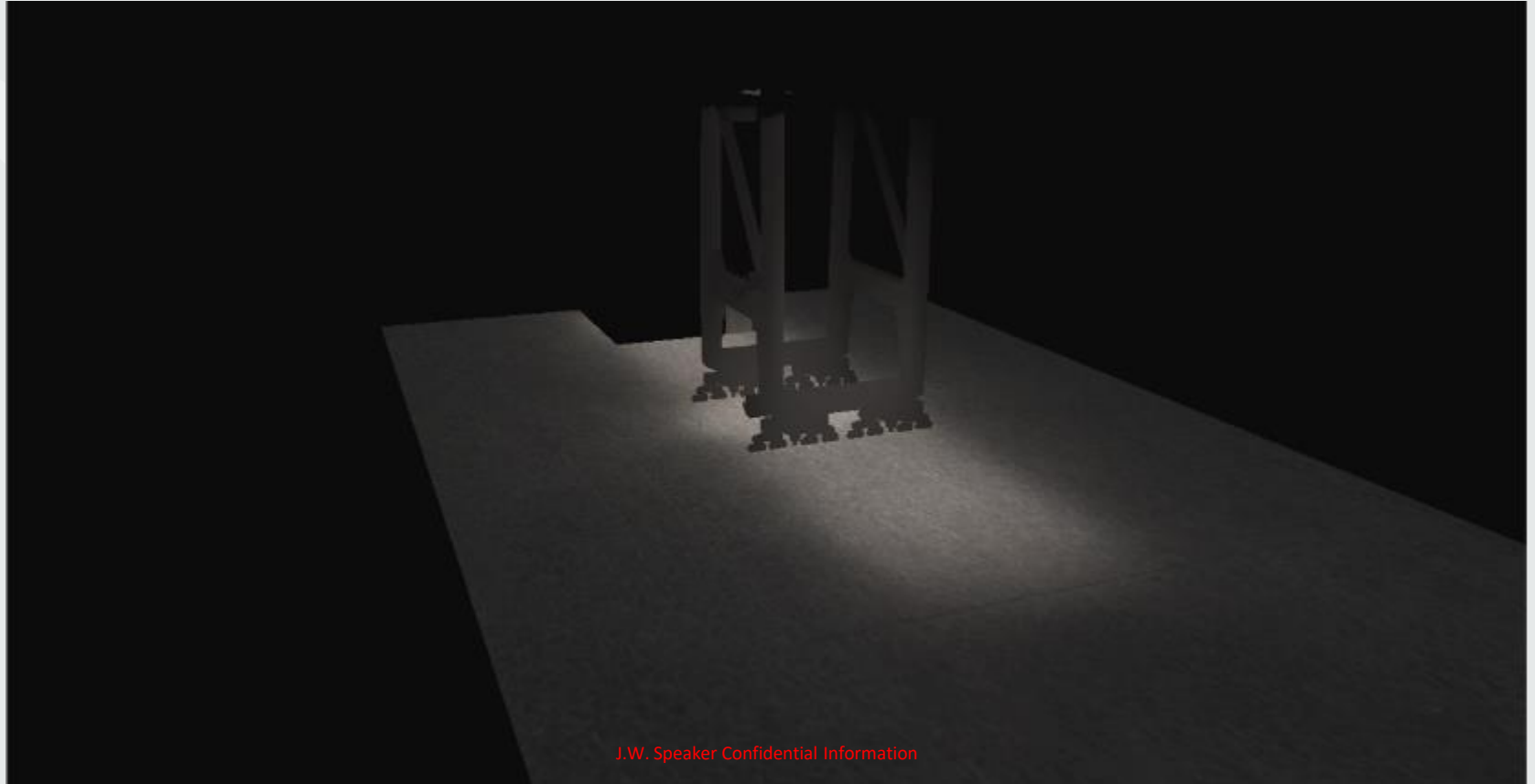
VR Light Map with 623



VR Light Map with 623



VR Light Map with 623



J.W. Speaker Confidential Information

Night Photo Ship to Shore Crane 623



3 Model 623
under the
Trolley

Night Photo Ship to Shore Crane 623



3 Model 623
under the
Trolley
All the rest are
turned off

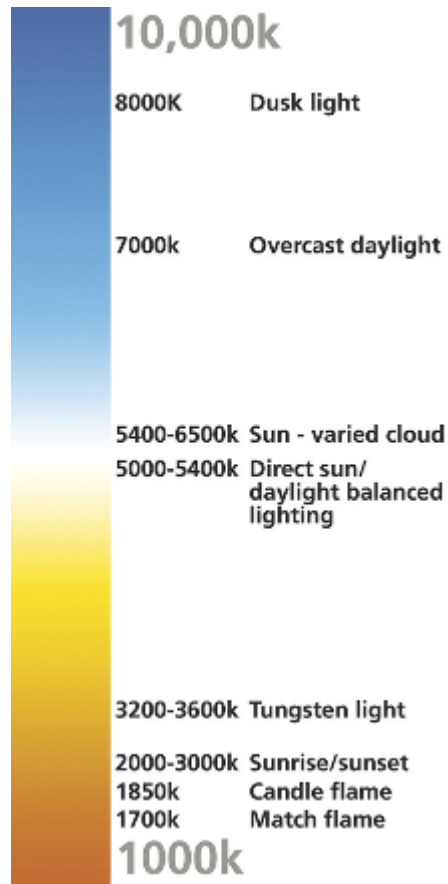
Night Photo Ship to Shore Crane 623



3 Model 623
under the
Trolley
All the rest are
turned off

- Model 623 colour temperature is 5700 kelvin
- 5000K-5500K 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 5700K, 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

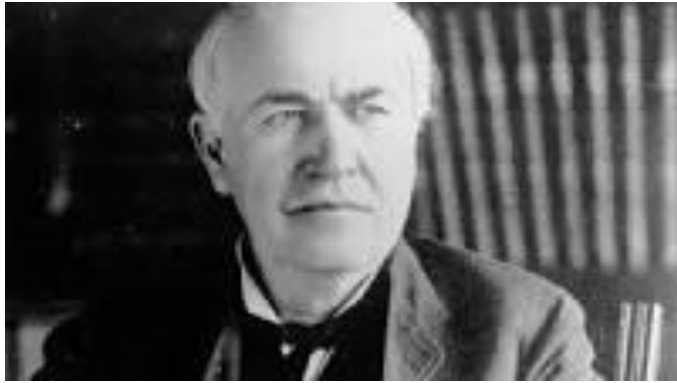
The human brain absorbs **90%** of all information through the eyes



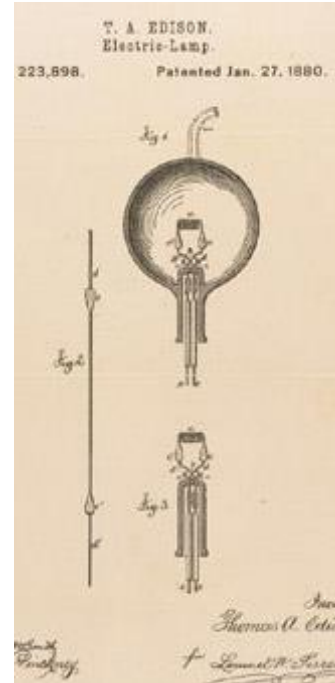
The eye is the weak link at night

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.

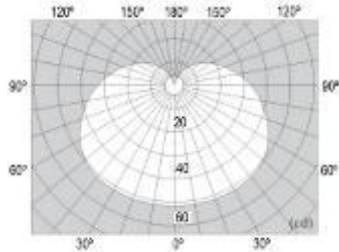
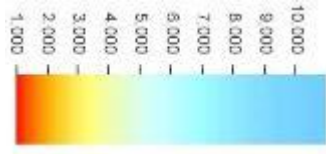
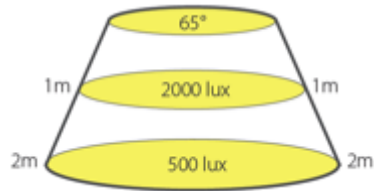


The disadvantage of bulbs is that most of the energy consumed is converted into heat rather than visible light.

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