

The Company

Manufacturing Innovative Products For Over 80 Years

Over 80 Year History

From 1935 to today

Our History

- ✓ Today, J.W. Speaker Corporation is family-run business
- ✓ Led by Tim and Jamie Speaker with their management team
- ✓ Developing world leading LED forward lighting for key OEM worldwide
- ✓ Growing into the aftermarket with the latest LED preformance technology
- ✓ Expanding into different markets around the global as a key brand
- ✓ Work closely with our Key OEM and aftermarket distributors to develop world first LED headlamps, worklamps and safety products
- ✓ To meet all our customers need and wants with lates technology in LED lighting

Our History

1935 1950 1965 1980 1995 2010 Present

1935 Tube & Tire Repair Kits 1968

1941 Radiator Fronts 1956

1942 P-38 Can Openers 1970

1942 Heatabs 1978

1948 Truck & Car Mirrors 1978

1948 Engineered Lighting Solutions for Truck, Agriculture & Mining Markets Today



J.W. SPEAKER®

Manufacturing

U.S.A. fully Manufacture

- ✓ Fully design and manufactured in the U.S.
- ✓ Employ 500 with Design, Optic, Software, Production and Manufacture engineers
- ✓ Fully approved labs
- ✓ Test to all global standards for lighting
- ✓ Two manufacturing sites in Germantown one for OEM and Aftermarket sales
- ✓ Improvement with the latest technology equipment and software
- ✓ Head Office and Production in Germantown U.S.A

U.S.A. fully Manufacture

J.W. SPEAKER
Engineered. Lighting. Solutions.



Industrial Lighting

Industrial Lighting

- ✓ J.W. Speaker Industrial LED Lighting range covers for all application from forward white to specialize warning product.



High Quality LED Lighting

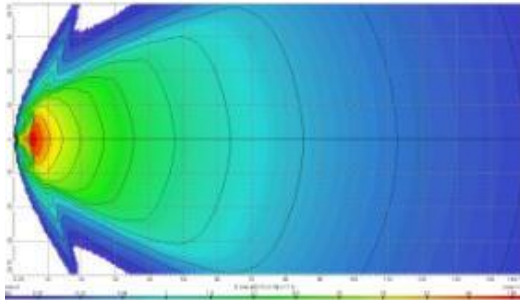
- ✓ Safety
- ✓ Operational Productivity
- ✓ Low Maintenance



Raw Vs Effective LED Lumen



Isolux charts are directly related to the
EFFECTIVE Lumen output



RAW

The RAW lumen output is calculated by simply taking the number of LED's in the lamp and multiplying by LED rated output.

- ✓ 8 LED's rated at 100 lumens per watt
- ✓ **8 x 100 = 800 RAW lumens**

RAW

The effective lumen output is calculated by taking the RAW lumen value and subtracting the Thermal, Optical and assembly losses.

- ✓ RAW lumens = 800
- ✓ Subtract Thermal, Optical and Assembly Losses = 40%
- ✓ **Effective lumens = 480 lumens**

IP ratings (International Protection Rating)

- ✓ This system uses a two-digit code to specify the degree of particle and water resistance of a luminaire.
- ✓ The first digit indicates the degree of protection of interior from the ingress of solid foreign objects.
- ✓ The second digit indicates the degree of protection of the interior from the ingress of water.

First Number

Complete protection against entry of dust.

IP**67**

Second Number

Protection from immersion in water up to 1 meter.

IP**67**

IP Rating

Level	Object size protected against	Effective against
0	—	No protection against contact and ingress of objects
1	>50 mm	Any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part
2	>12.5 mm	Fingers or similar objects
3	>2.5 mm	Tools, thick wires, etc.
4	>1 mm	Most wires, screws, etc.
5	Dust protected	Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact (dust proof)
6	Dust tight	No ingress of dust; complete protection against contact (dust tight)

IP Rating

Level	Protected against	Testing for	Details
0	Not protected	—	—
1	Dripping water	Dripping water (vertically falling drops) shall have no harmful effect.	Test duration: 10 minutes Water equivalent to 1 mm rainfall per minute
2	Dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position.	Test duration: 10 minutes Water equivalent to 3 mm rainfall per minute
3	Spraying water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect.	Test duration: 5 minutes Water volume: 0.7 litres per minute Pressure: 80–100 kPa
4	Splashing of water	Water splashing against the enclosure from any direction shall have no harmful effect.	Test duration: 5 minutes Water volume: 10 litres per minute Pressure: 80–100 kPa
5	Water jets	Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.	Test duration: at least 3 minutes Water volume: 12.5 litres per minute Pressure: 30 kPa at distance of 3 m
6	Powerful water jets	Water projected in powerful jets (12.5 mm nozzle) against the enclosure from any direction shall have no harmful effects.	Test duration: at least 3 minutes Water volume: 100 litres per minute Pressure: 100 kPa at distance of 3 m
6K	Powerful water jets with increased pressure	Water projected in powerful jets (6.3 mm nozzle) against the enclosure from any direction, under elevated pressure, shall have no harmful effects.	Test duration: at least 3 minutes Water volume: 75 litres per minute Pressure: 1000 kPa at distance of 3 m
7	Immersion up to 1 m	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion).	Test duration: 30 minutes Immersion at depth of at most 1 m measured at bottom of device, and at least 15 cm measured at top of device
8	Immersion beyond 1 m	The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.	Test duration: continuous immersion in water Depth specified by manufacturer, generally up to 3 m
9k	Powerful high temperature water jets	Rating for high-pressure, high-temperature wash-down applications. Such enclosures must not only be dust-tight but it must also be able to withstand high-pressure and steam cleaning.	The test specifies a spray nozzle that is fed with 80°C water at 8000 kPa and a flow rate of 14–16 L/min. The nozzle is held 10–15 cm from the tested device at angles of 0°, 30°, 60° and 90° for 30 seconds each. The test device sits on a turntable that rotates once every 12 seconds (5 rpm).

Types of EMI – Radio Interference

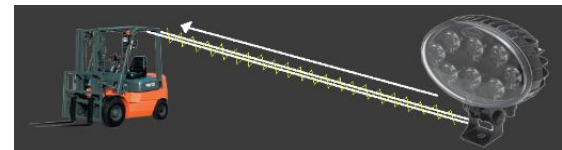
Radiated Emissions

- ✓ The electromagnetic noise our product emits through the air
- ✓ Can interfere with cell phones, AM/FM radios, 2-way radios, etc



Conducted Emissions

- ✓ Noise from our lamp that is conducted down the wire
- ✓ Can interfere with other electronics on the vehicle



Types of EMI – Radio Interference

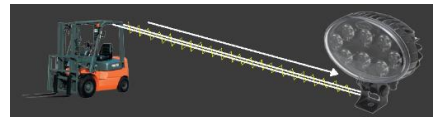
Radiated Immunity

- ✓ Tolerance of our lamps to electromagnetic signals in the atmosphere
- ✓ Any broadcast signal (cell phone, radio towers, other non-compliant electronics, etc.) can interfere with our lamps if not designed properly



Conducted Immunity

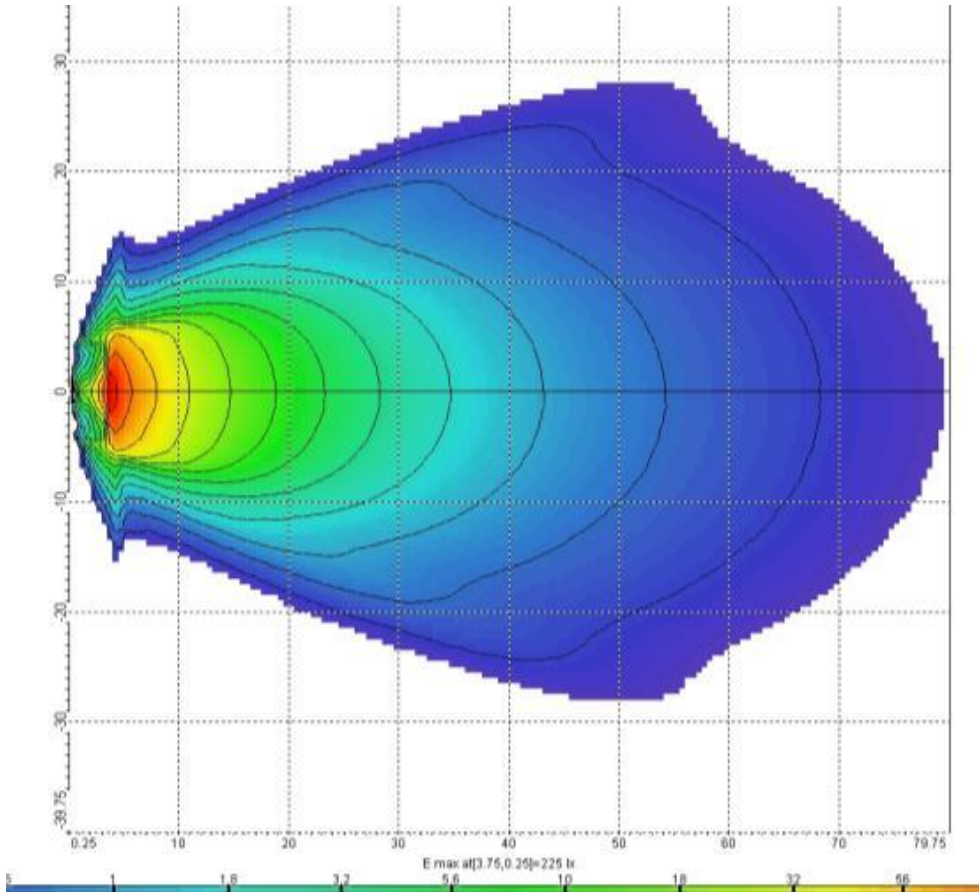
- ✓ Tolerance of our lamps to noise conducted on the vehicle power lines
- ✓ Transients (load dump, inductive coupling, fast transients), BCI (bulk current injection), intermittent power, etc. are all examples that fall under the Conducted Immunity category.



Beam Patterns

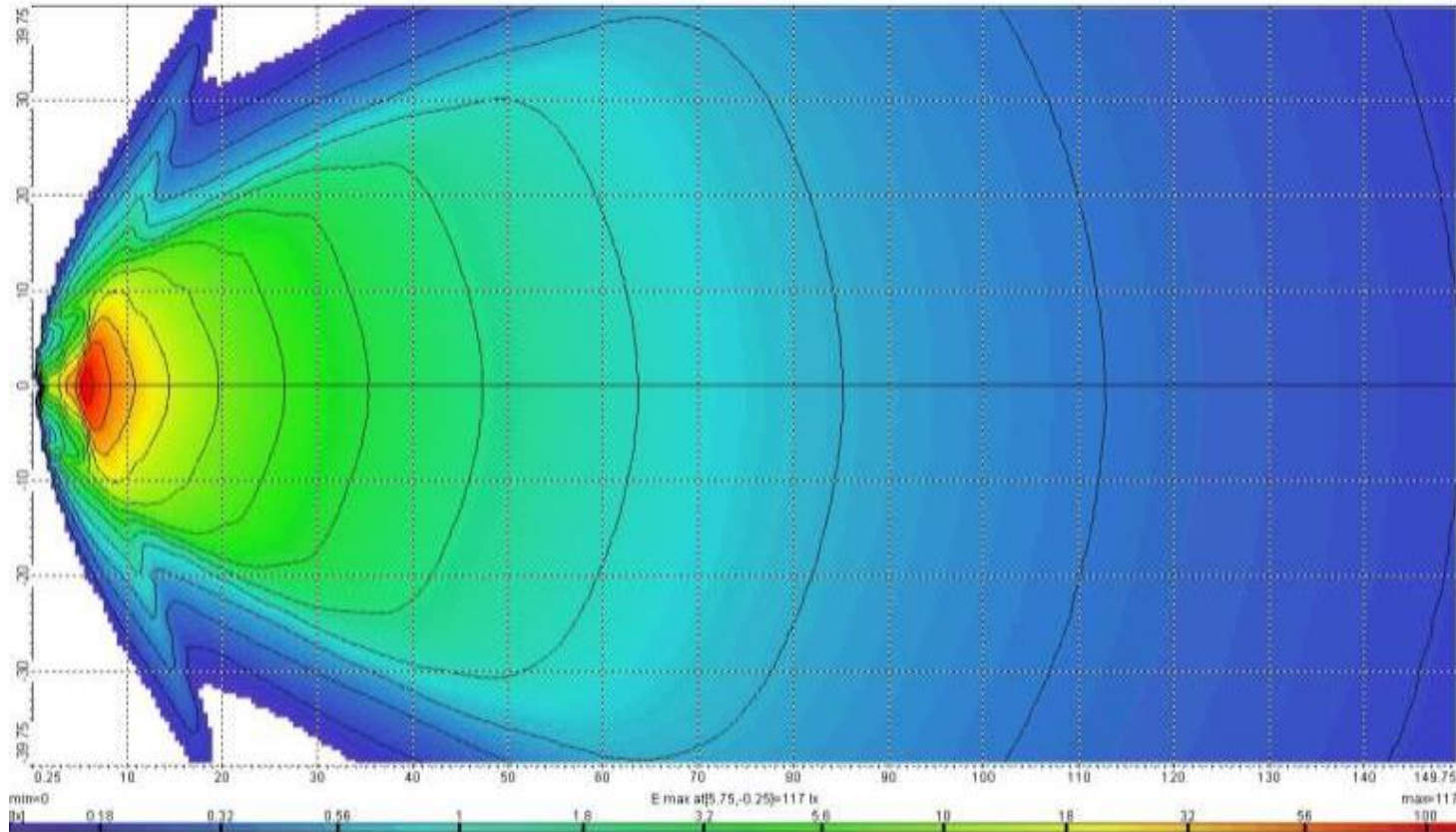
- ✓ All quality lighting manufacturing company use lighting mapping and they all is base on Lux (not lumens)
- ✓ They are all different with wording of patterns
- ✓ They are all different for high and degree of angle
- ✓ The most important this with respectable lighting company we will always advise you
- ✓ It is important for you to ask this question

Beam Patterns

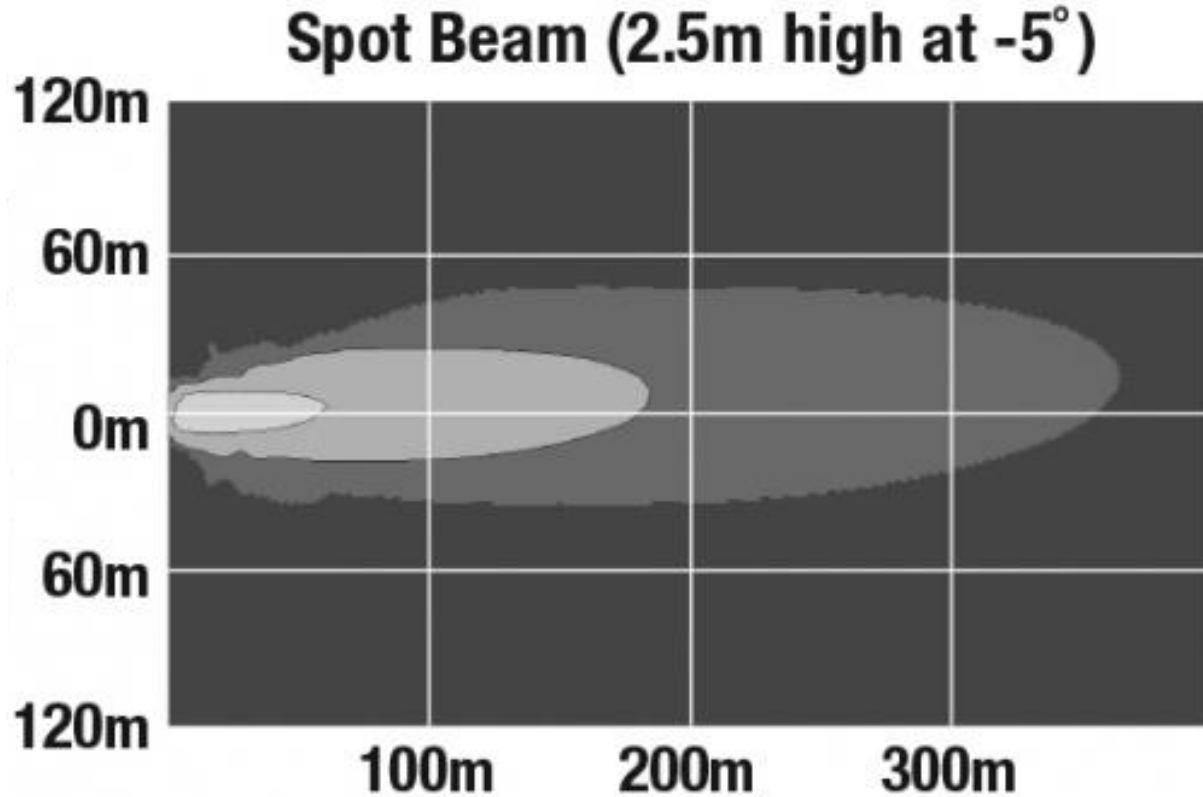


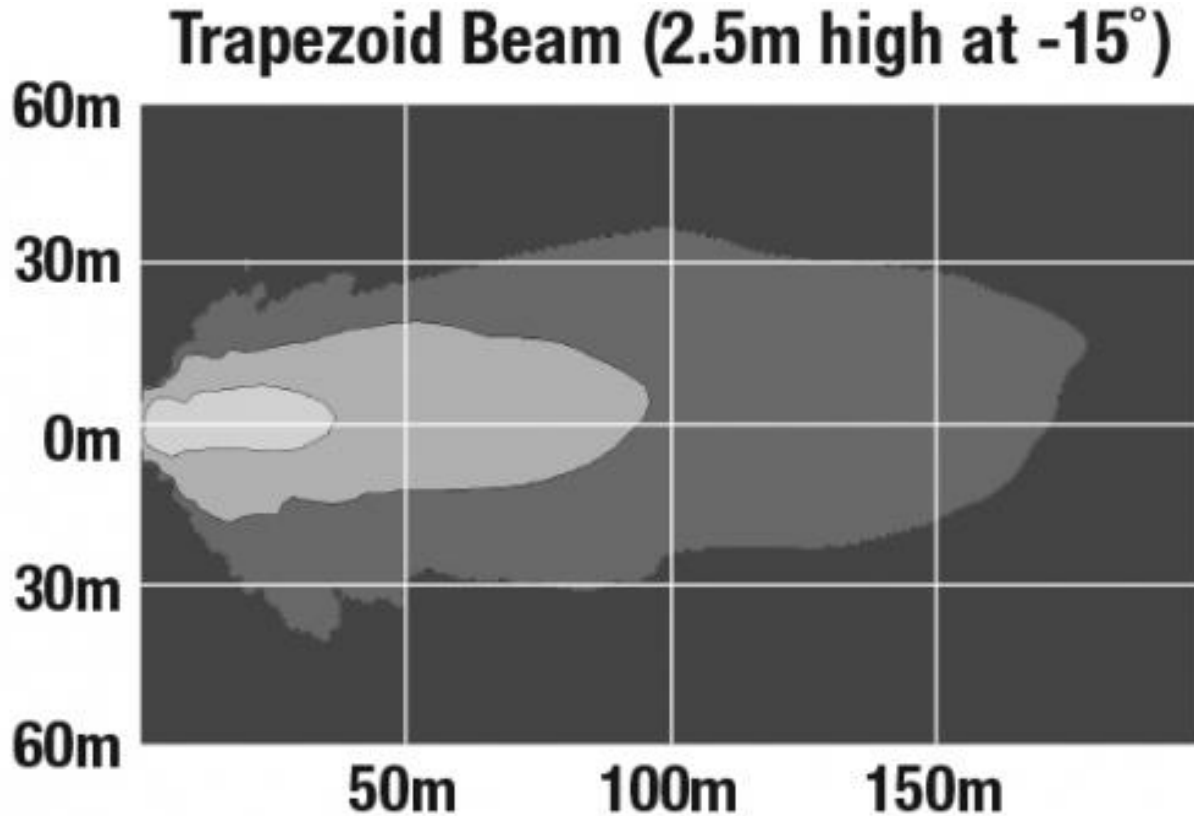
2.5m high at 20
degrees

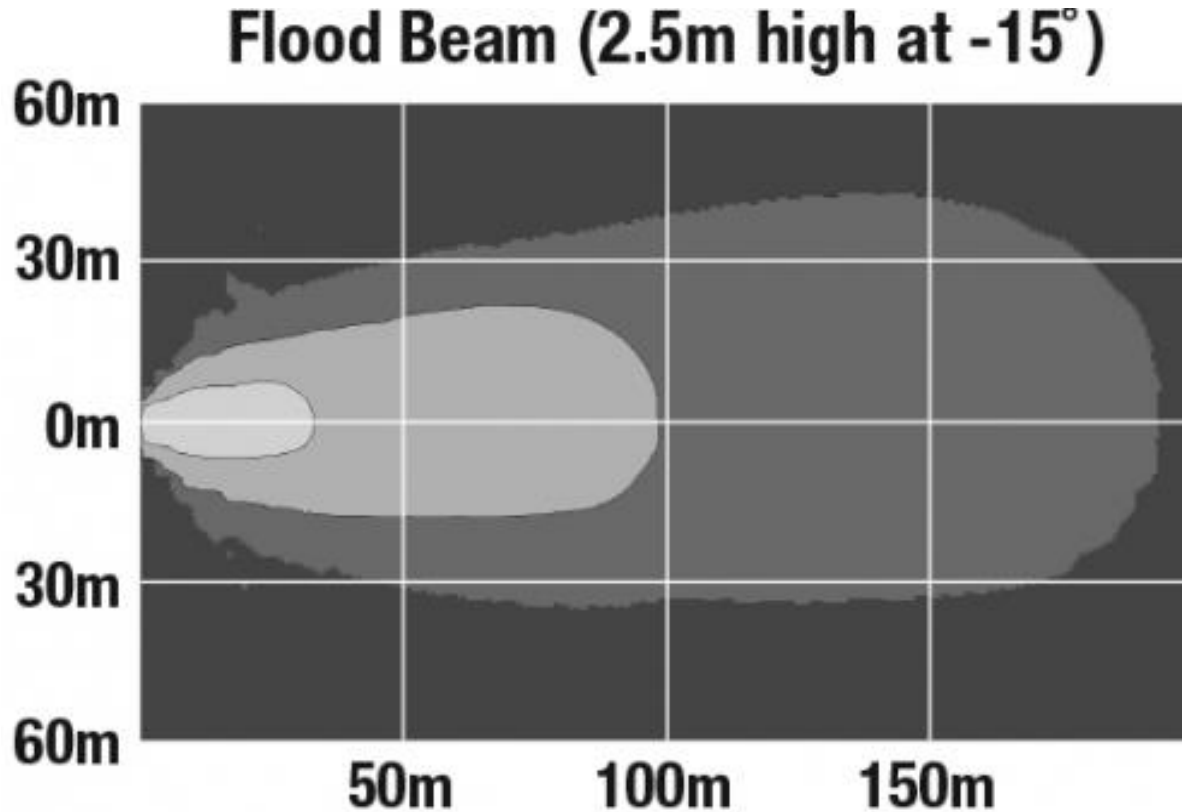
Beam Patterns



2.5m high at 10
degrees







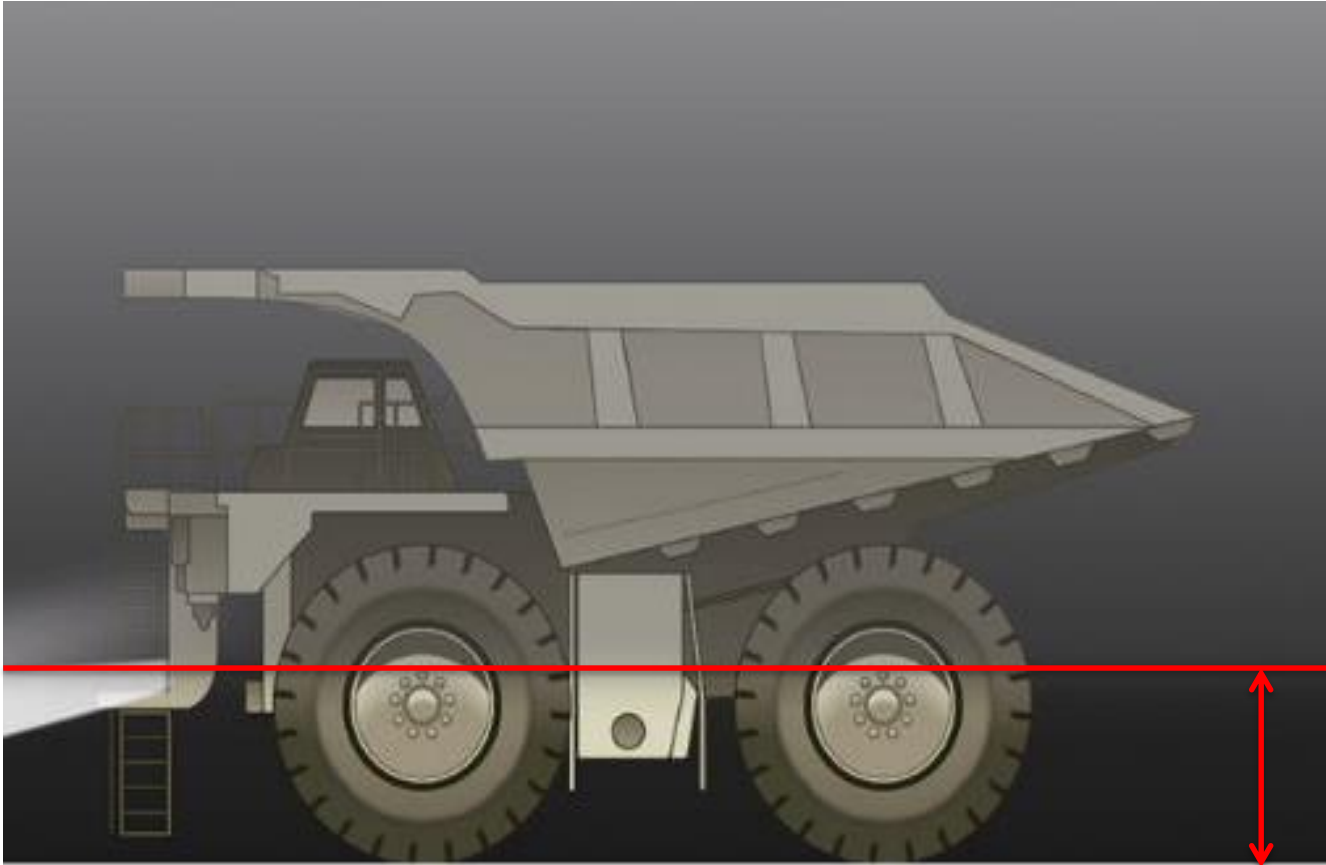
Beam Patterns



526
Beam
Range

- ✓ Fog is made up of water particles and cannot be penetrated. All light is reflected.
- ✓ Amber light reduces the brightness of the reflection but is 30% less brighter than white on the road.
- ✓ With the correct optics lighting up under the fog, white is far more effective.

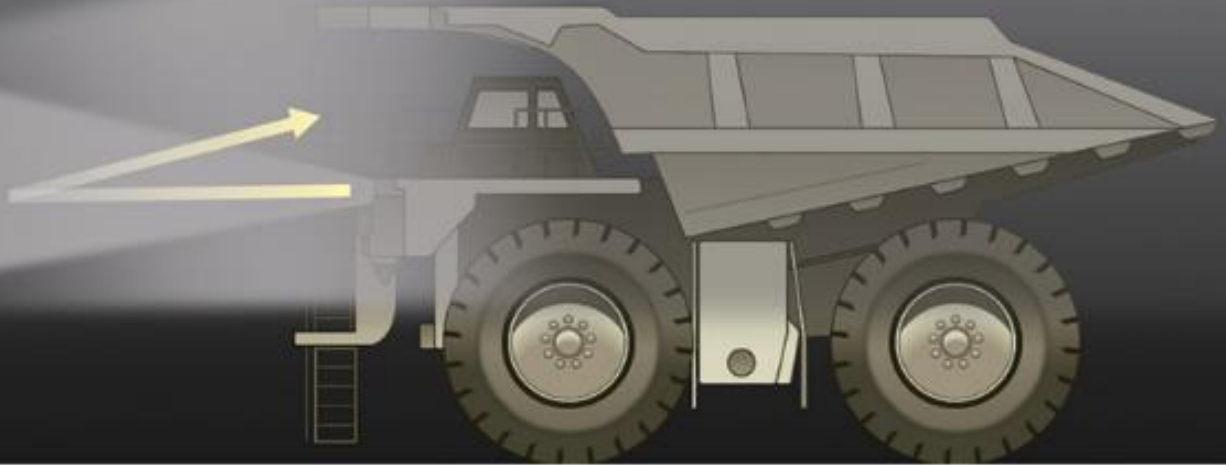
Understanding Fog



Fog come down
to 0.5 to 0.8m

- ✓ Traditional lights mounted high on the truck are immersed in fog.
- ✓ These reflect a lot of stray light back into the driver's eyes.
- ✓ Only a very small amount of light reaches the road but is overpowered by the amount of reflected light.

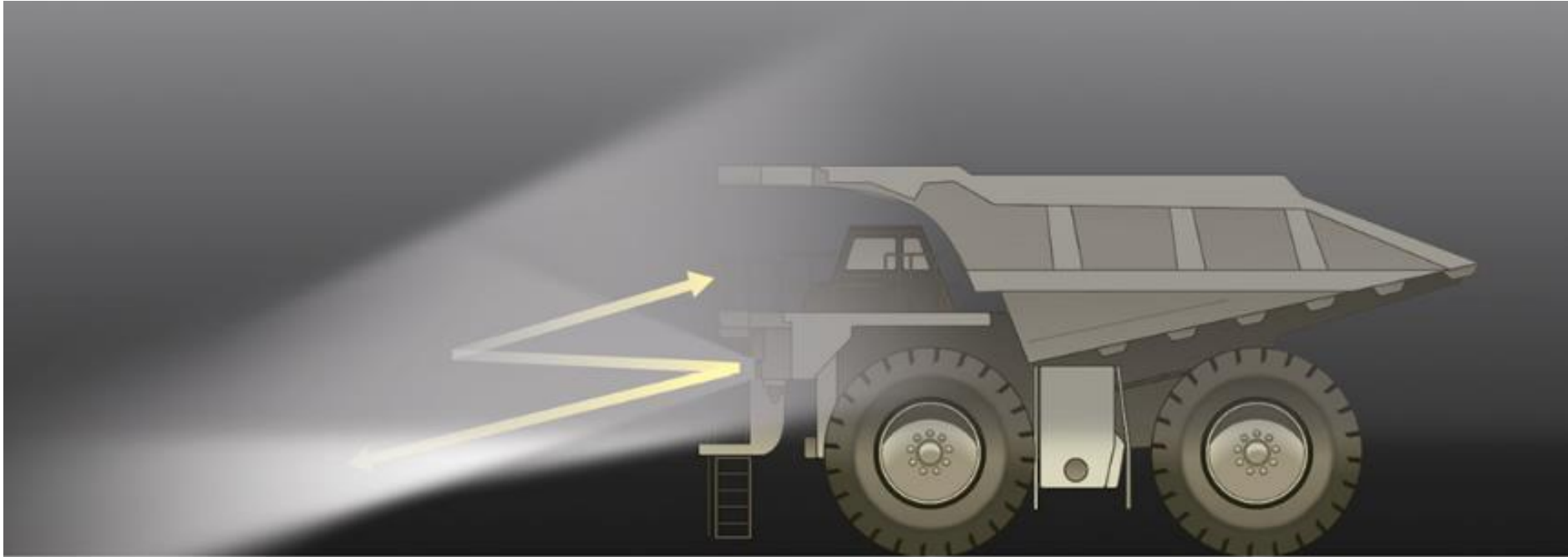
Understanding Fog



Traditional lights mounted high in Fog

- ✓ Traditional lights mounted lower on the truck are partially immersed in fog.
- ✓ Part of the beam penetrates the fog and makes it to the roads surface while a part of the beam is reflected back into the driver's eyes.

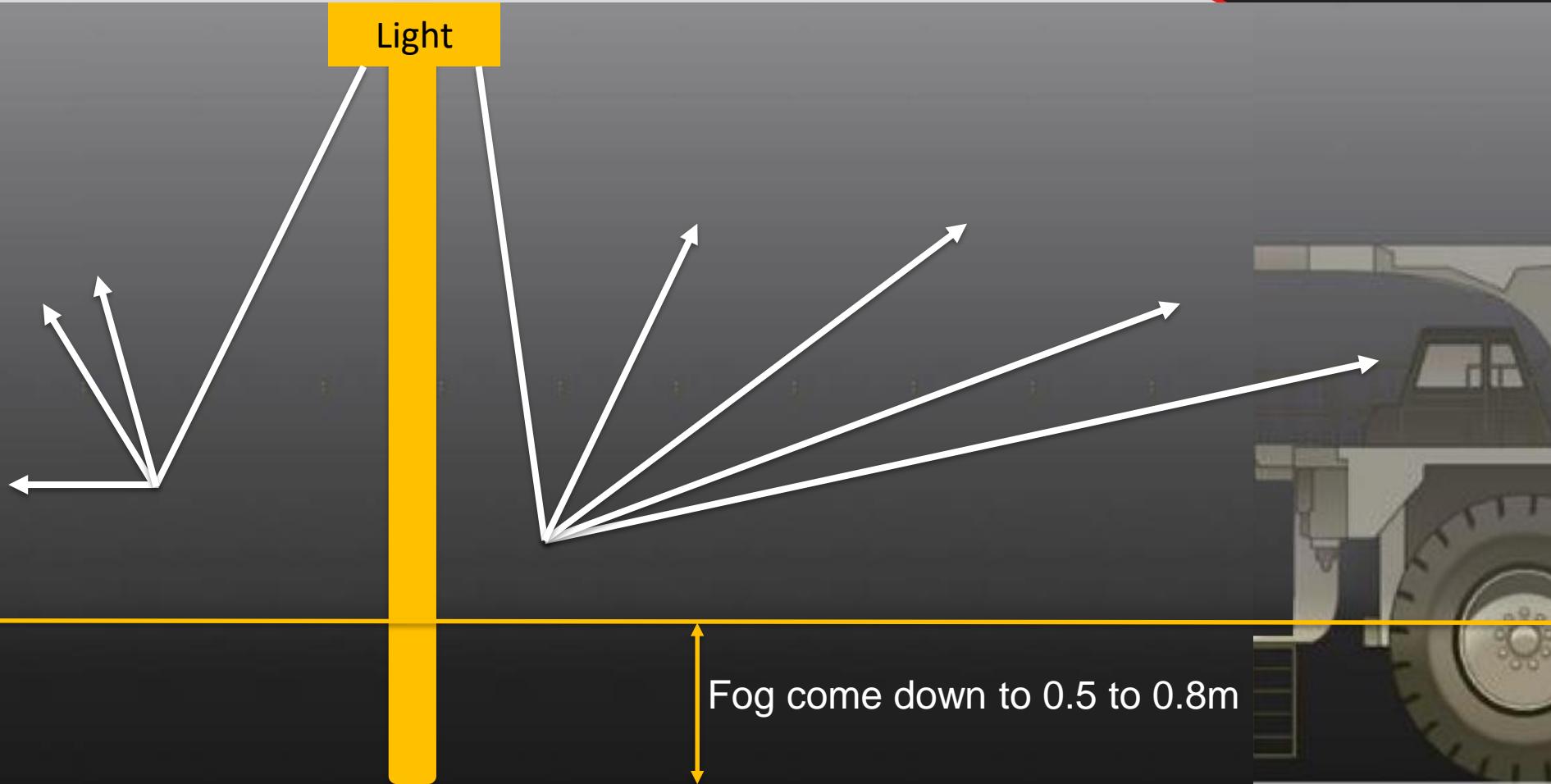
Understanding Fog



Traditional lights mounted lower in Fog

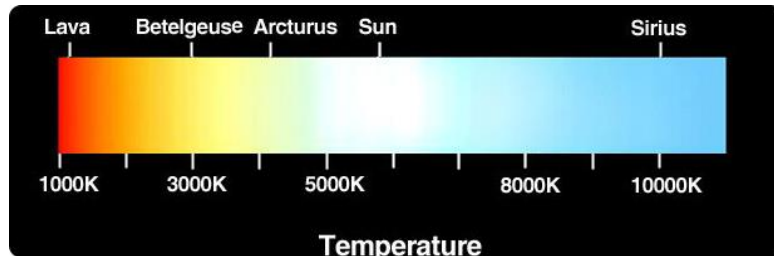
- ✓ J.W. Speaker fog lights, mounted at the lowest point on the truck have a beam pattern that is wide and thin and is designed to position the light under the fog.
- ✓ The very low amounts of stray light from the optics result in minimal reflection into the driver's eyes.

Understanding Fog on Poles Light



Pole Lighting

- ✓ For Poles mounted lighting hi in the fog the higher the color temperature the more glare happens
- ✓ More lumens more glare
- ✓ Facts are if you try more whiter color or more lumens in fog it will reflect off the fog in many direction causing glare

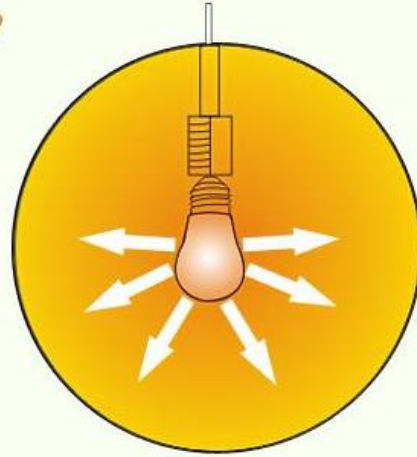


What is Lumen and Luminous Flux?

Luminous Flux (symbol Φ) is the amount of visible light emitted by a light source per second.

Unit: Lumen (lm)

Lumen = Light Output = **Brightness**



The higher the lumen value, the brighter the bulb



-



Lumen

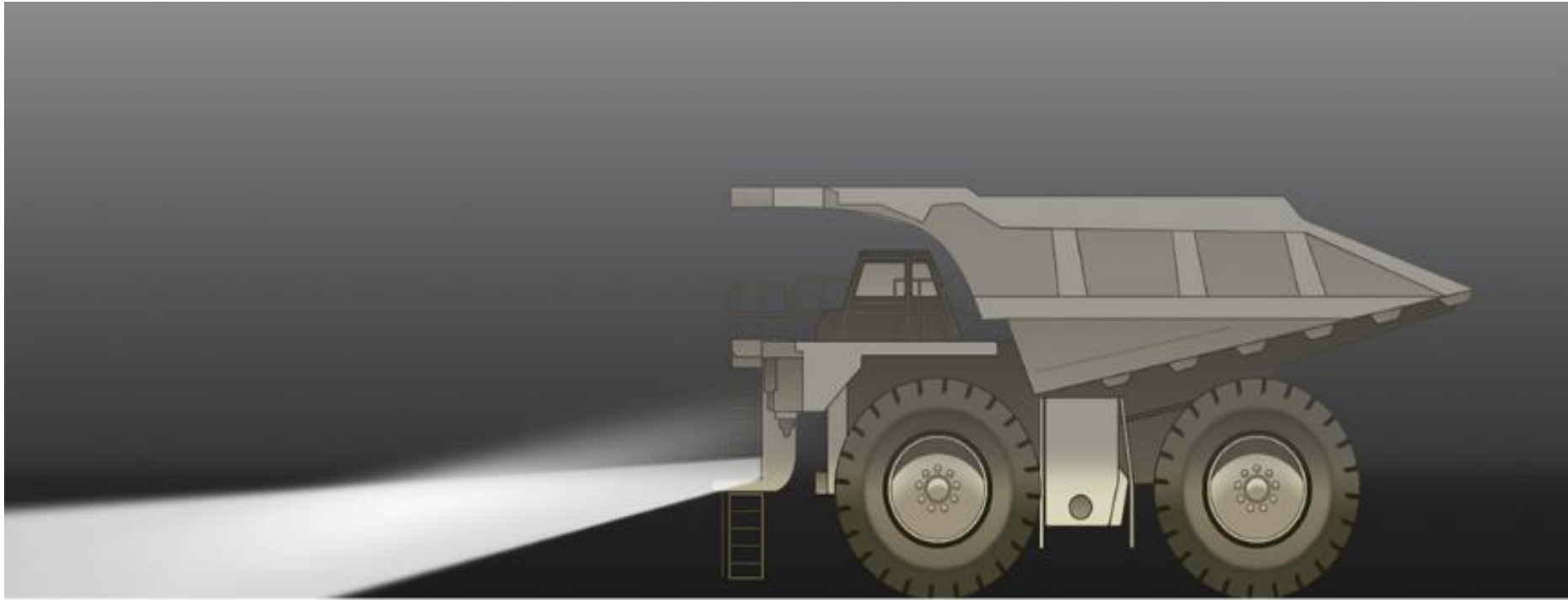


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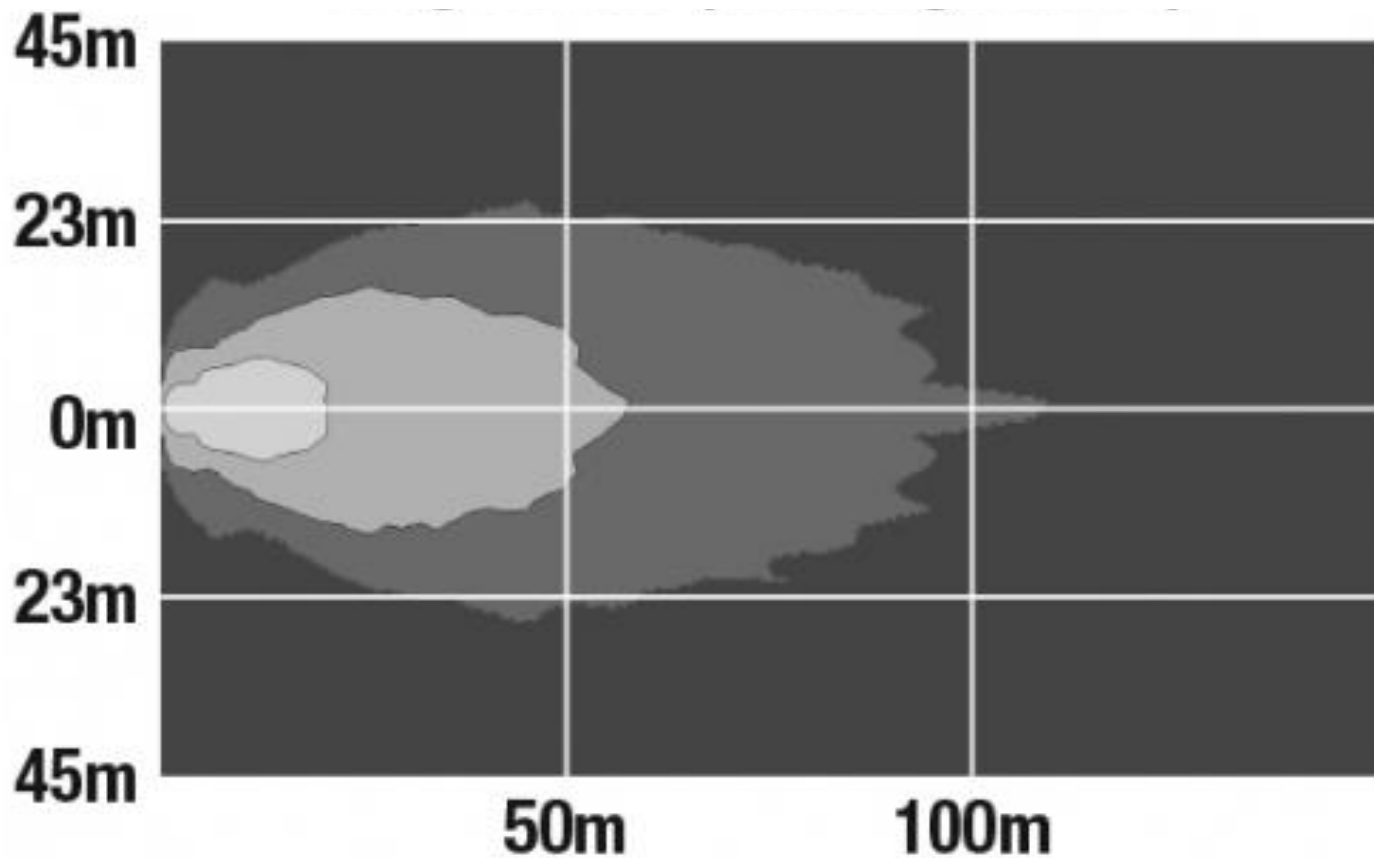
More Lumens
More Glare
In Fog

Understanding Fog

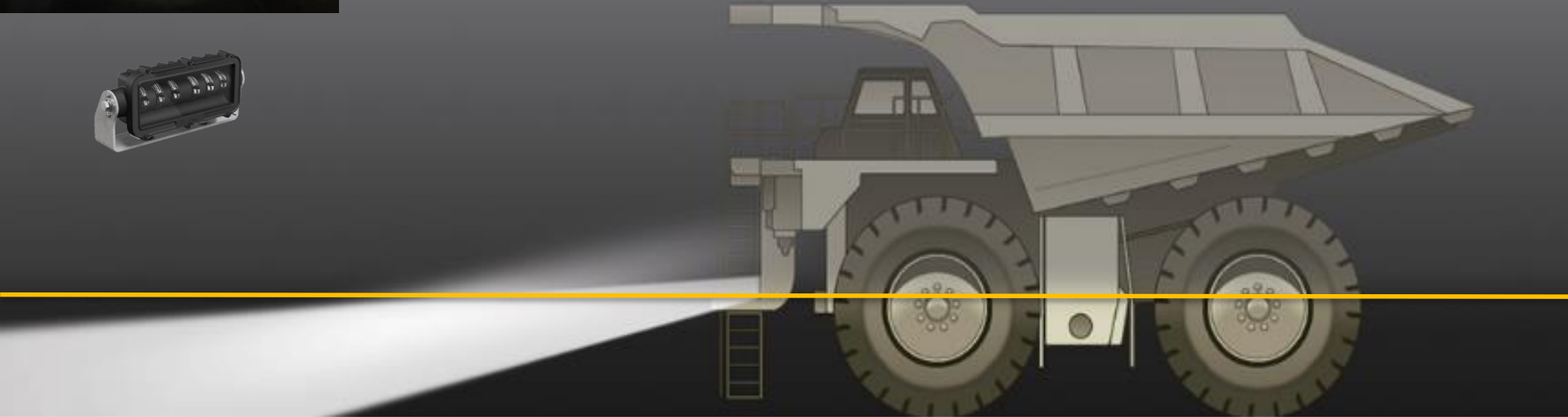


J.W. Speaker fog lights, mounted at the lowest point on the truck

Our Fog



Correct Fog Lamp Mounted



527 Fog Lamp correct fog lamp for Haul Trucks

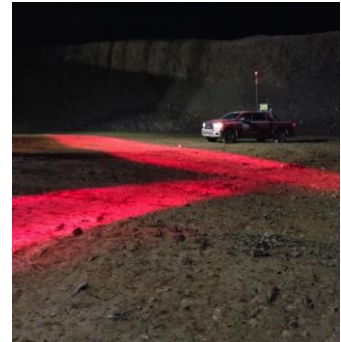
Key Industrial Product Work Lamps

J.W. SPEAKER
Engineered. Lighting. Solutions.



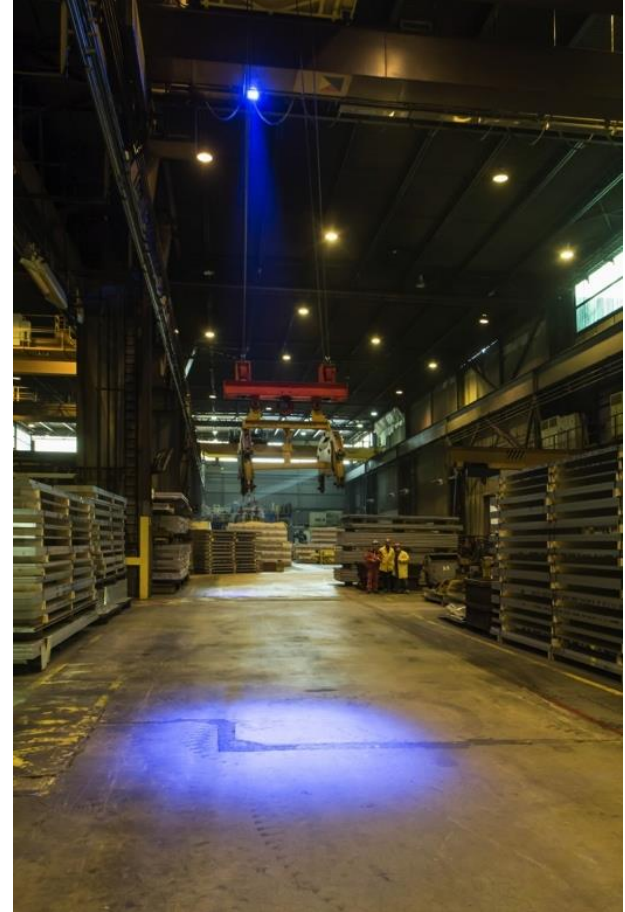
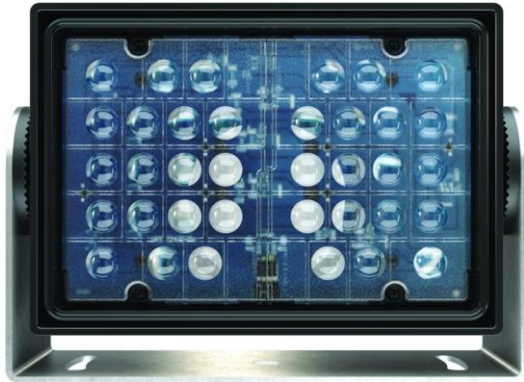
Key Industrial Warning Product

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Key Industrial Warning Product

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Key Industrial Headlamps

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Key Industrial Fog Lamps



527 – 12-24V
Amber & Fog White



6150 – 12V
White – Fog



Photo Ship to Shore Crane Sydney

J.W. SPEAKER
Engineered. Lighting. Solutions.



Photo Indonesia Mining



Photo Indonesia Mining



Photo Straddle Cranes Melbourne

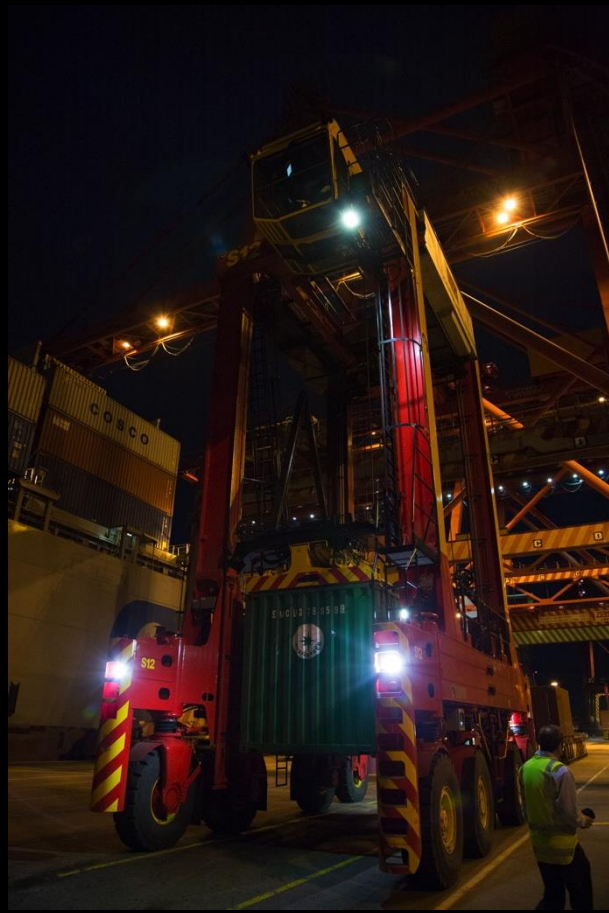


Photo Mining Chile



Photo Locomotive Adelaide



Industrial Mapping

Komatsu 930E



Product Used 526XL

Features & Benefits

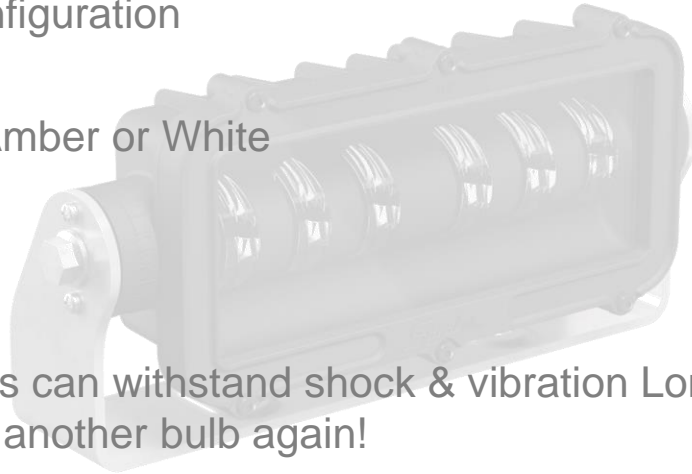
- ✓ 9,000 Raw Lumens; 5,800 (Flood, Spot, Trap), 5,500 (Anti-Glare) Effective
- ✓ Voltage: 12-24V DC configuration
- ✓ Flood, Spot, Trapezoid, & Anti-Glare beam patterns available
- ✓ Your choice of durable glass or polycarbonate lens options
- ✓ Rugged solid-state LEDs can withstand shock & vibration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



Product Used 527 Fog Lamp

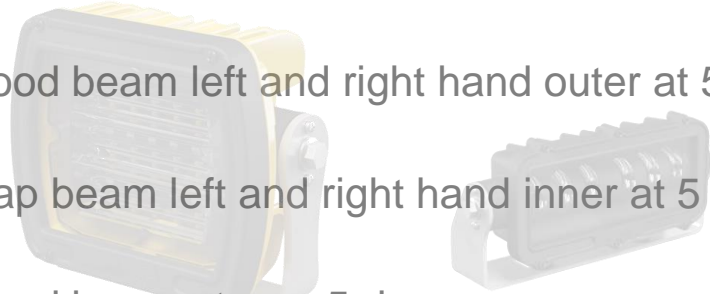
Features & Benefits

- ✓ 960 Raw Lumens; 400 Effective Lumens
- ✓ Voltage: 12-24V DC configuration
- ✓ Fog Lamp available in Amber or White
- ✓ Glass lens
- ✓ Rugged solid-state LEDs can withstand shock & vibration Long-lasting LEDs mean never having to replace another bulb again!
- ✓ Xenoy housing provides maximum protection
- ✓ Universal pedestal mount

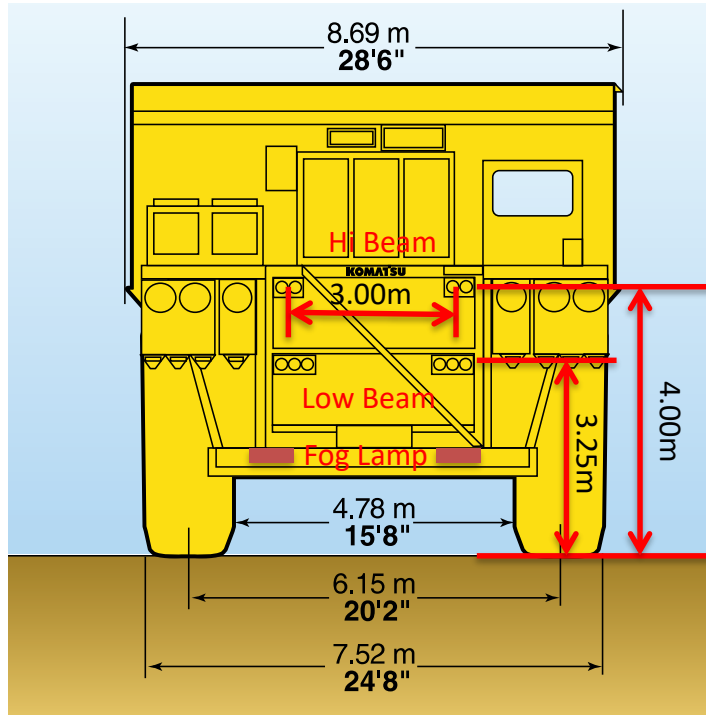


Product Used 526XL

- ✓ 2 x Model 526XL Anti Glare Low Beam mounted at bottom for low beam at 20 degrees
- ✓ 2 x Model 526XL Anti Glare Low Beam mounted at bottom for low beam at 20 degrees only use in fog with Model 527 Fog lamp
- ✓ 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
- ✓ 2 x Model 527 Amber or White Fog Lamps, fitted at low as possible on the Truck use in Fog
- ✓ All Model 526XL LED Lamps replace standard halogen work lamps



Komatsu 930E Set Up



- ✓ 2 x Model 526XL Anti Glare Low Beam mounted at bottom for low beam at 20 degrees
- ✓ 2 x Model 526XL Anti Glare Amber Low Beam mounted at bottom for low beam at 20 degrees Used in fog only
- ✓ 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
- ✓ 2 x Model 527 Amber or white Fog Lamps
- ✓ All Model 526XL LED Lamps replace standard halogen work lamps

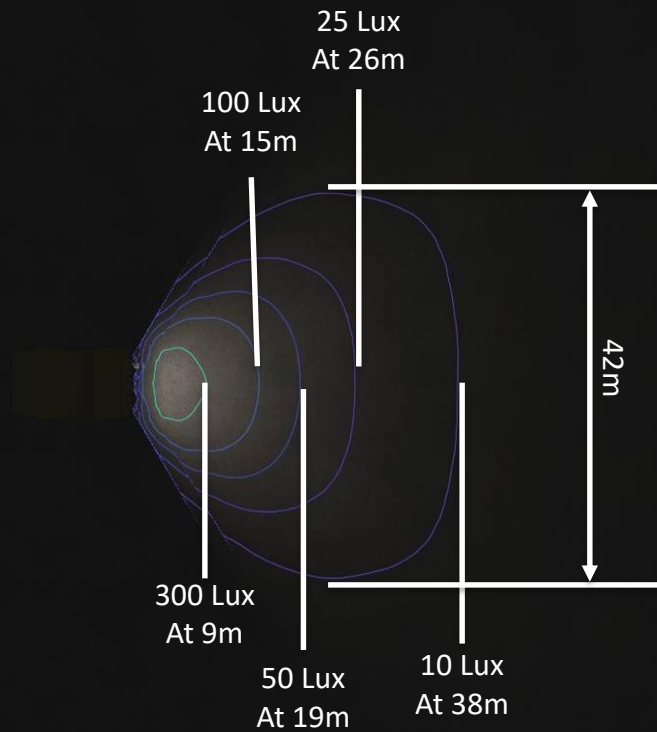
VR Light Map with 526XL



Model 526XL
Anti Glare Low
Beam

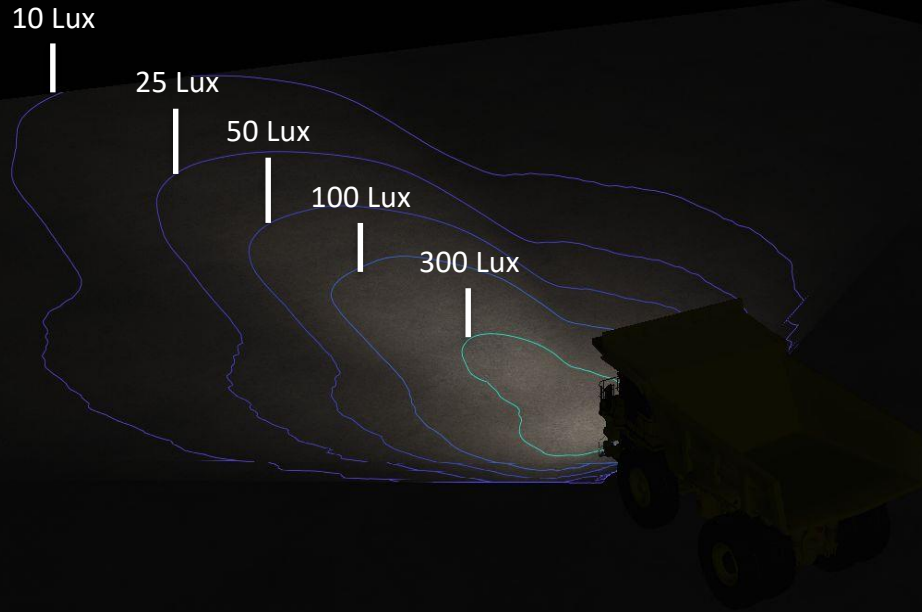
VR Light Map with 526XL

Model 526XL
Anti Glare Low
Beam



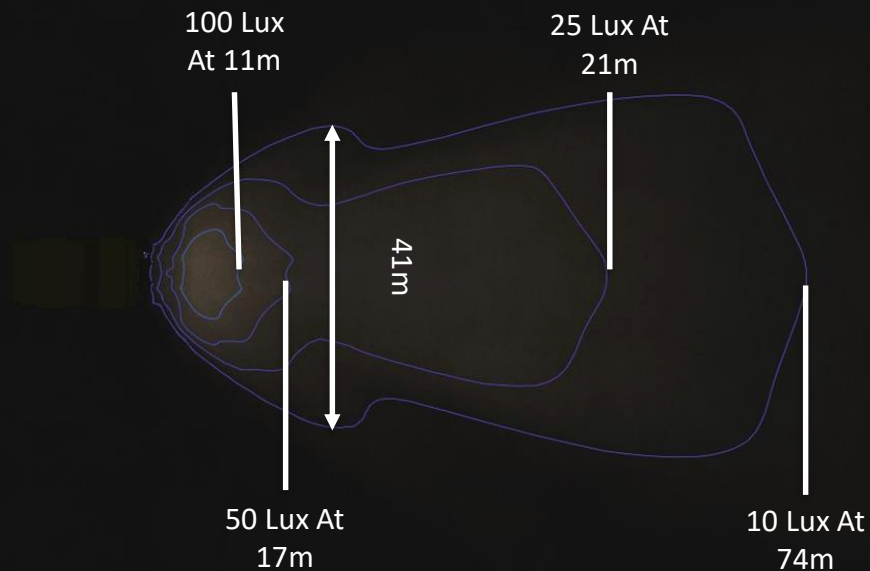
VR Light Map with 526XL

Model 526XL Hi Beam



VR Light Map with 526XL

Model 526XL Hi Beam



VR Light Map with 526XL

Model 526XL
Anti Glare Low
Beam



VR Light Map with 526XL

Model 526XL
High Beam



Fog Lamps Mining



527

Fog Beam

A yellow CAT D10 Dozer is shown in a construction environment, pushing a pile of dirt. The machine is equipped with a large front blade and a rear-mounted ripper. The background is a hazy, dusty landscape.

CAT D10 Dozer

LED Lighting

Product Used 832

Features & Benefits

- ✓ 3,900 Raw Lumens; 2,400 Effective
- ✓ Voltage 12-14V DC
- ✓ Flood, Trapezoid and Spot beam patterns available
- ✓ Polycarbonate lens
- ✓ 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 832

Features & Benefits

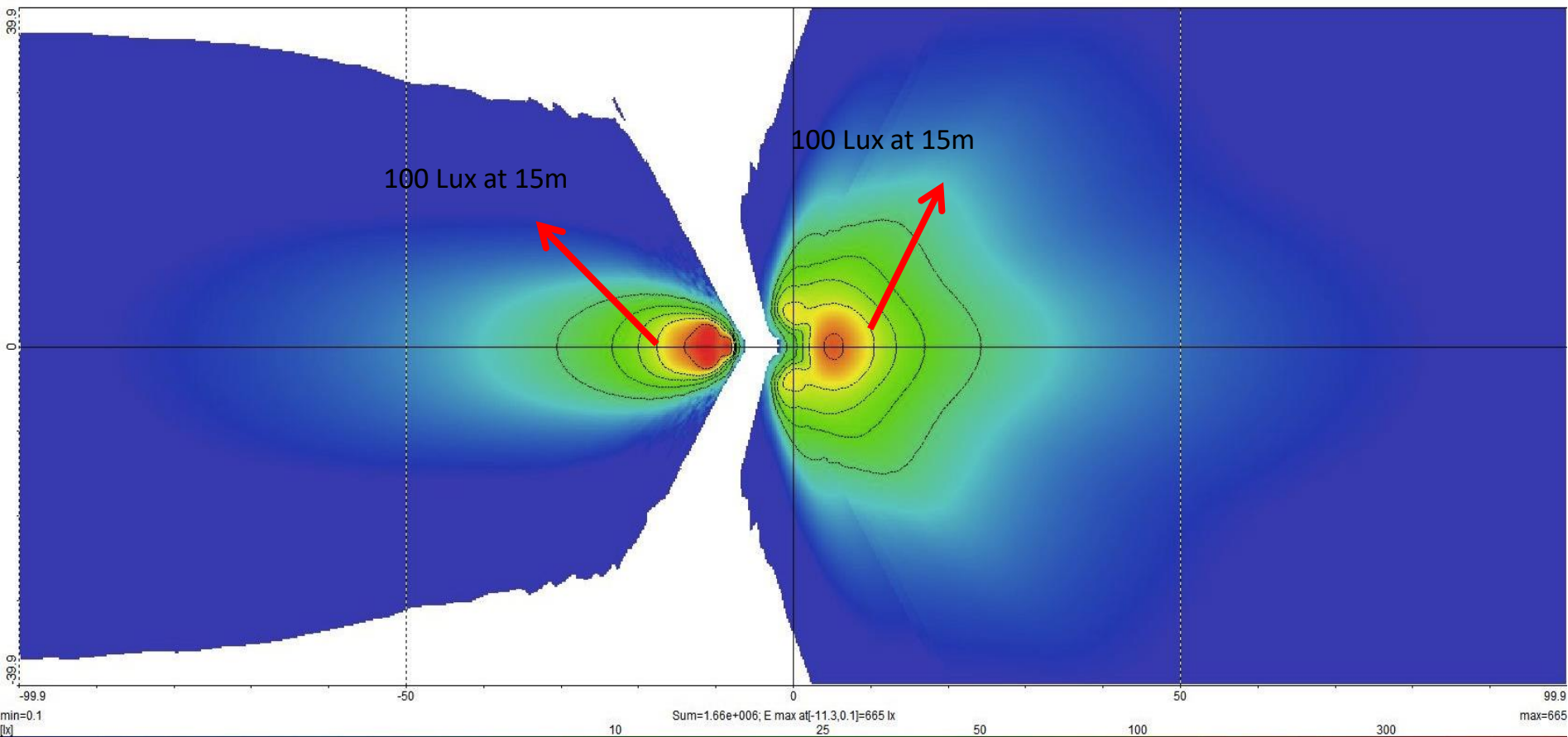
- ✓ 5,400 Raw Lumens; 4,500 Effective
- ✓ Voltage 12-14V DC
- ✓ Flood, Trapezoid and Spot beam patterns available
- ✓ Durable Glass or Polycarbonate lens
- ✓ Rugged solid-state LEDs can withstand shock & vibration Long-lasting LEDs mean never having to replace another bulb again!
- ✓ Die-cast aluminum housing provides maximum protection
- ✓ Universal pedestal mount



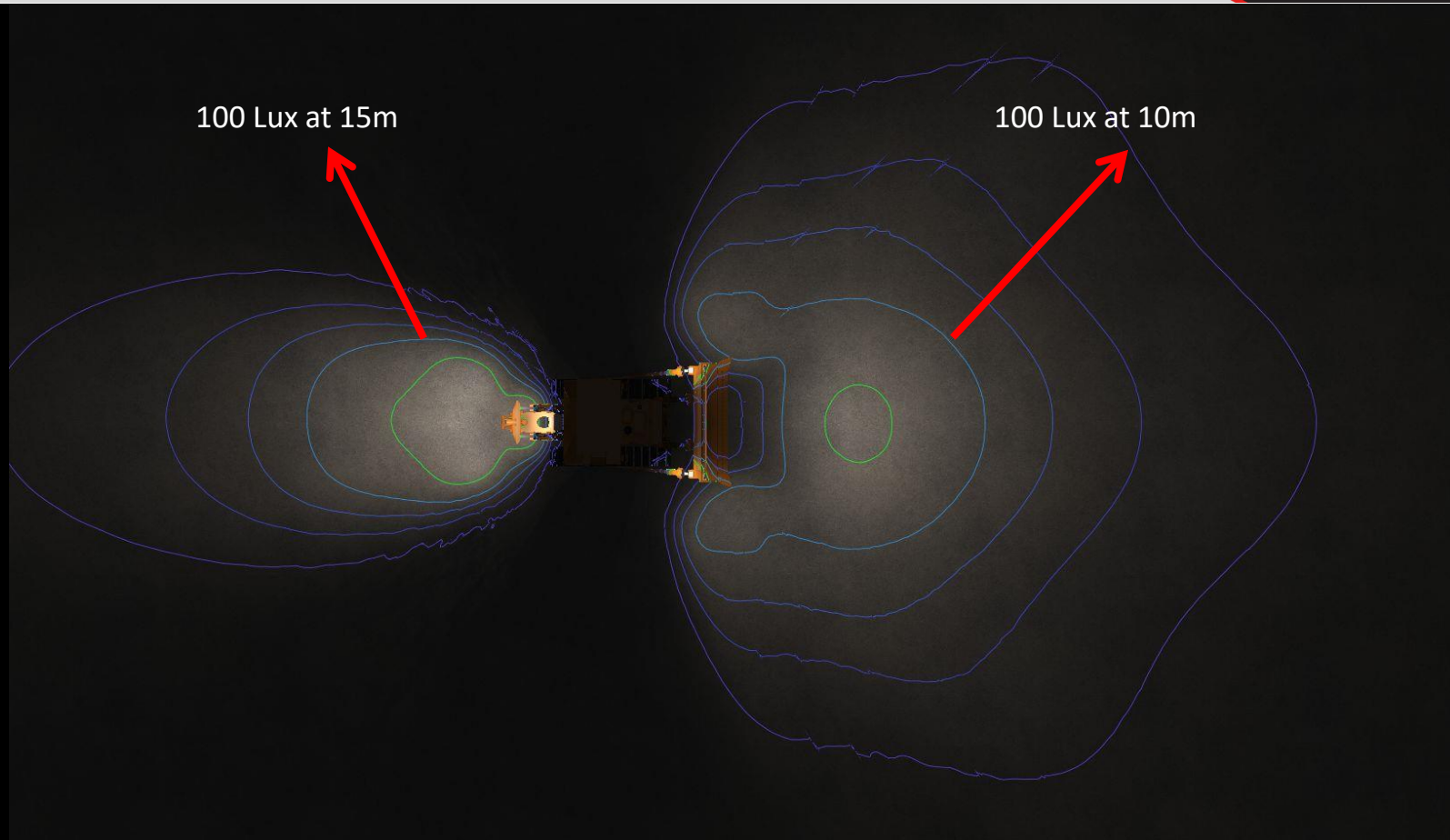
CAT D10 Set Up

FRONT	Part #	QTY	Description
LOWER SIDES	0545631	2	MODEL 832F -12-24V 4"x4" LED Flood
CYLINDER TOP INSIDE	1800841	2	MODEL 7150T -24V 5"x7" LED Trapezoidal
CYLINDER TOP OUTSIDE	1800851	2	MODEL 7150F -24V 5"x7" LED Flood
REAR	Part #	QTY	Description
TOP CENTER	1800841	1	MODEL 7150T -24V 5"x7" LED Trapezoidal
BOTTOM REARS	1800841	2	MODEL 7150T -24V 5"x7" LED Trapezoidal
RIPPER (SHINE ON TOOTH)	0545631	1	MODEL 832F -12-24V 4"x4" LED Flood

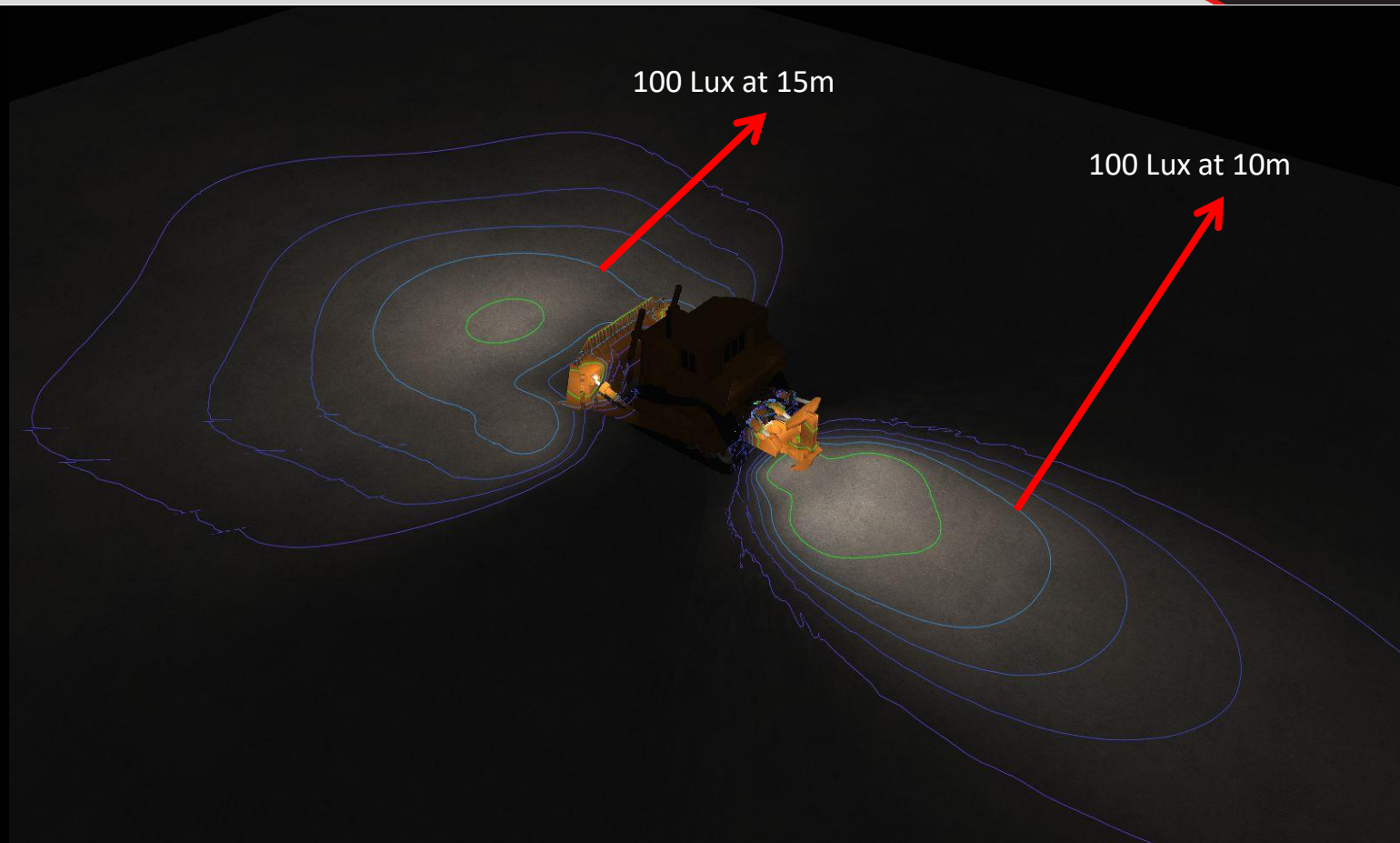
Bird Eye View Lux with 7150 and 832



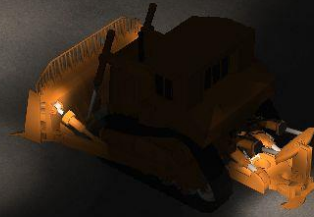
VR Light Map with 7150 and 832



VR Light Map with 7150 and 832



VR Light Map with 7150 and 832



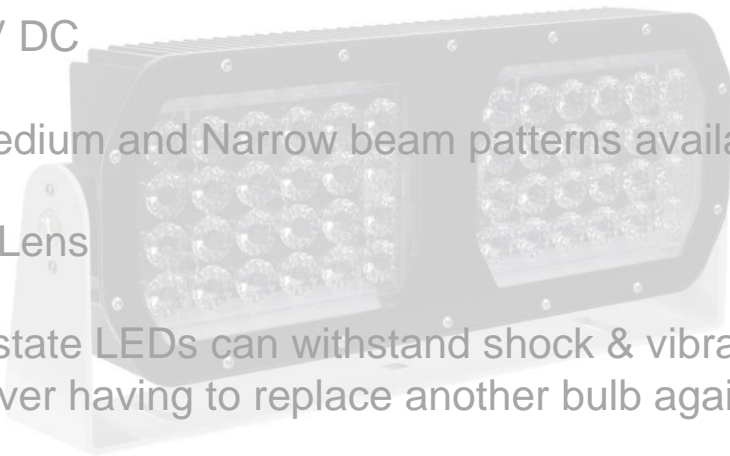
Hitachi EX 5600

LED Lighting with Red Warning Zone



Product Used 623

- ✓ 40,000 Raw Lumens; 20,000 Effective
- ✓ Voltage 16-60V DC
- ✓ Wide Flood, Medium and Narrow beam patterns available
- ✓ Durable Glass Lens
- ✓ 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

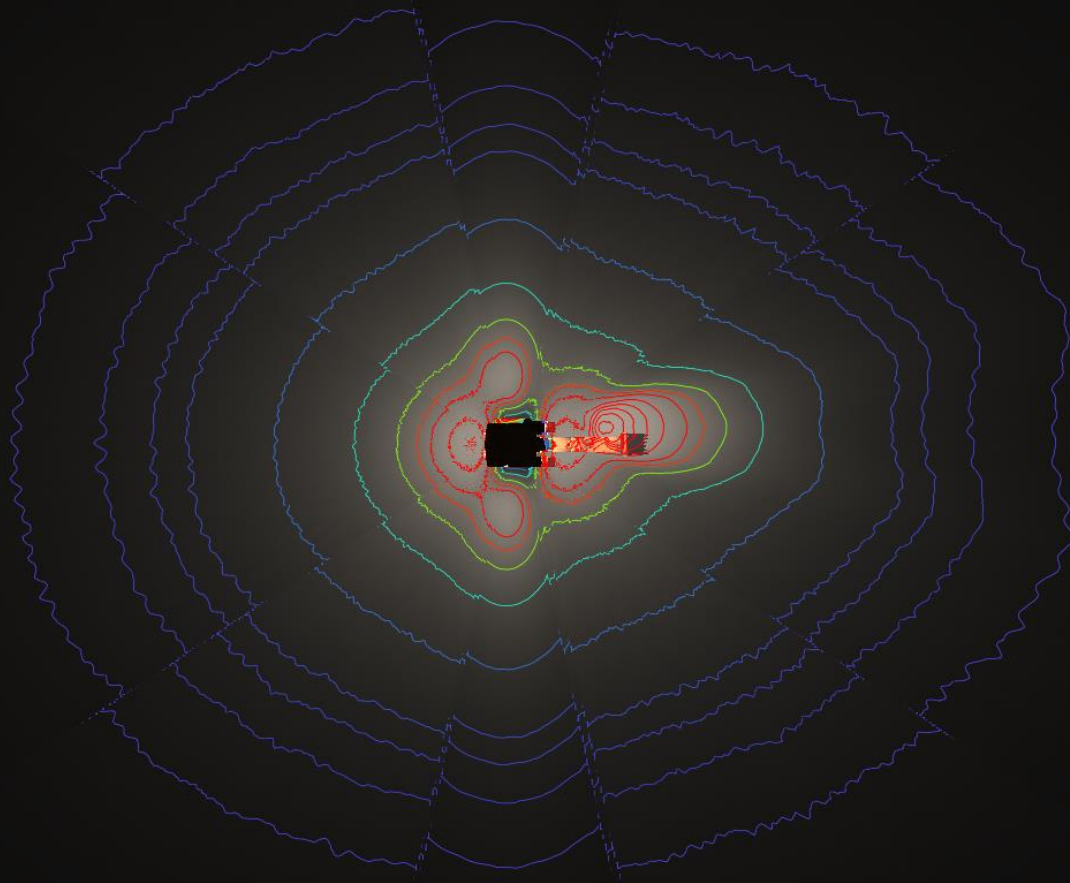


Location of Model 623

- ✓ Above Cab – 1 x Model 623 Medium Flood 8.6m high 30 degrees down
- ✓ Below Cab – 2 x Model 623 Wide Flood 7m high 30 degrees down. 1 x Left and 1 x Right Side.
- ✓ Side Centre – 1 x Model 623 Wide Flood 7m high 30 degrees down. 1 x Left and 1vx Right side
- ✓ Rear – Model 623 Wide Flood 7m high 3.7m from 1 x Left and 1 x Right hand Side with 30 degree down.



VR Light Map with 623



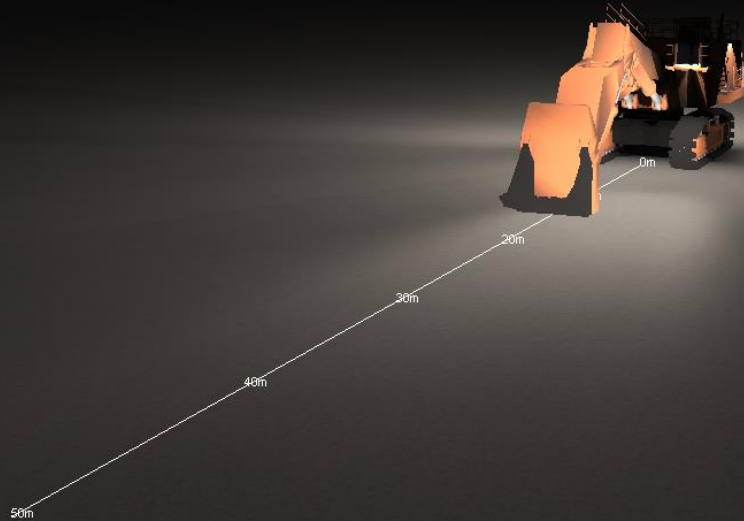
VR Light Map with 623



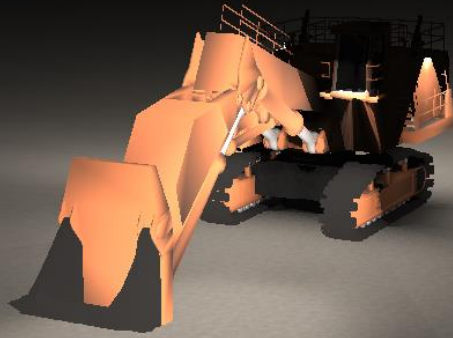
VR Light Map with 623



VR Light Map with 623



VR Light Map with 623





EX2500
Australia

Product 527 Red Zone Warning

Features & Benefits

- ✓ Voltage: 12-24V DC
- ✓ Available in Red, Green and Amber
- ✓ Durable Glass lens
- ✓ Rugged solid-state LEDs can withstand shock & vibration Long-lasting LEDs mean never having to replace another bulb again!
- ✓ Xenoy housing provides maximum protection
- ✓ Universal pedestal mount

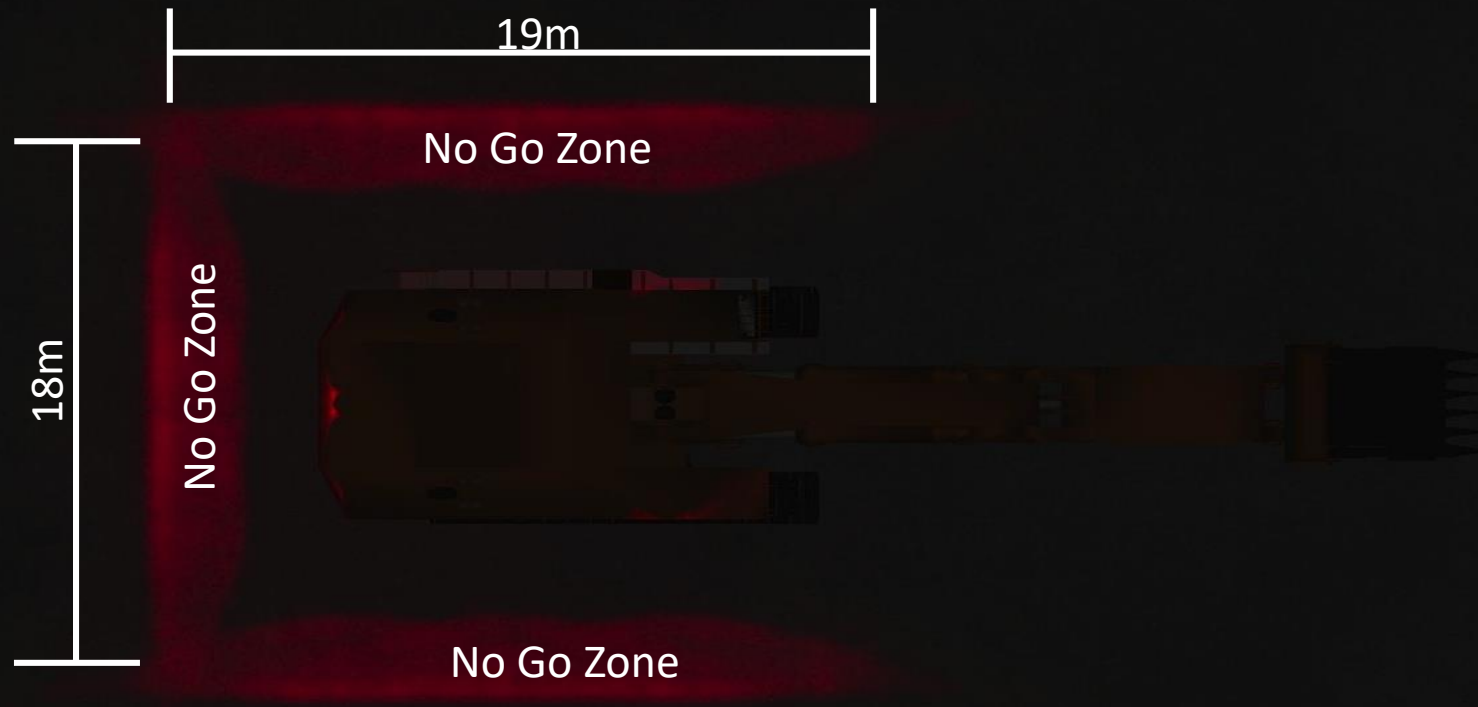


Location of Model 527

- ✓ 9 Model 527 LED Red No Go Zone Lamps
- ✓ Mounted at 7m high
- ✓ 3 Left and Right hand side fitted around upper deck under the hand rails. Set at 4m apart, aimed 55° down
- ✓ 3 at rear fitted at the top space . Set at 4m apart, aimed 60° down



VR Light Map with 527



VR Light Map with 623 and 527



VR Light Map with 623 and 527



VR Light Map with 623 and 527



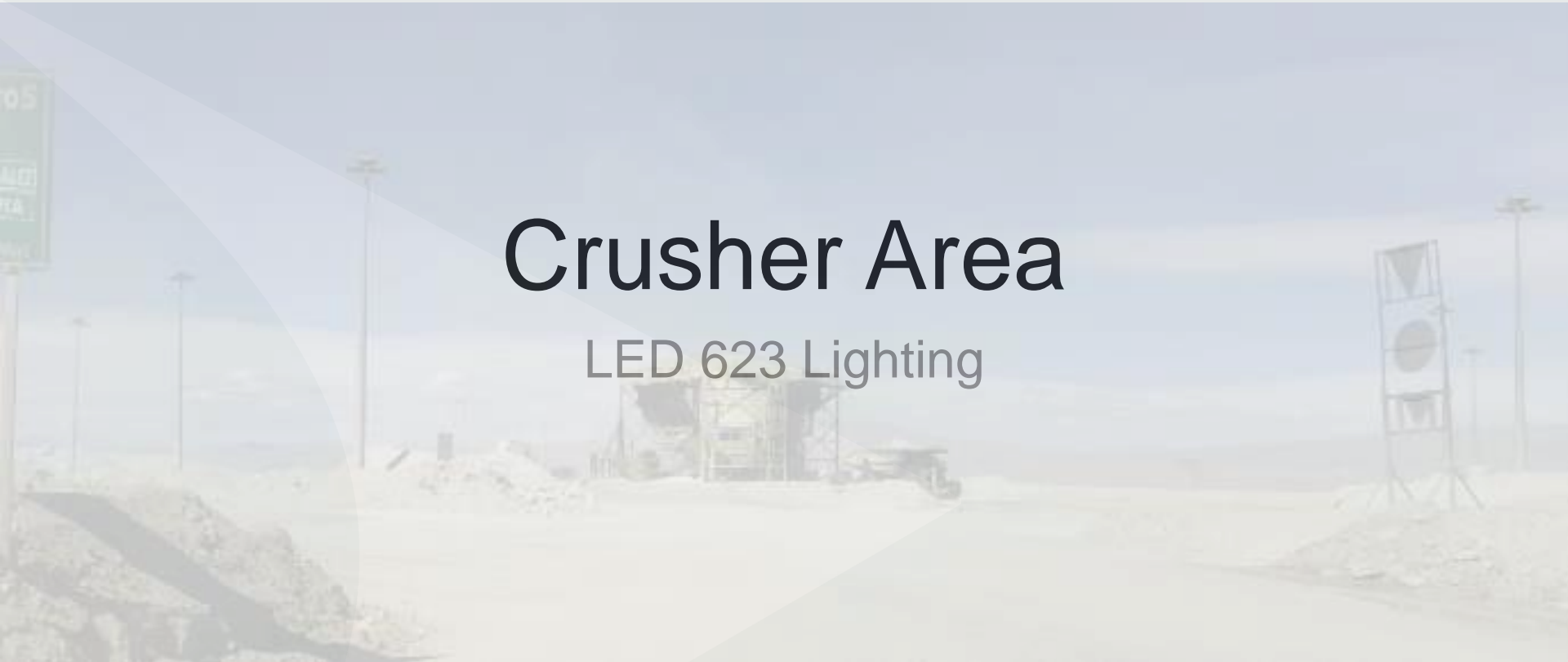


J.W. Speaker Confidential Information

Photo P&H
4100 Chile

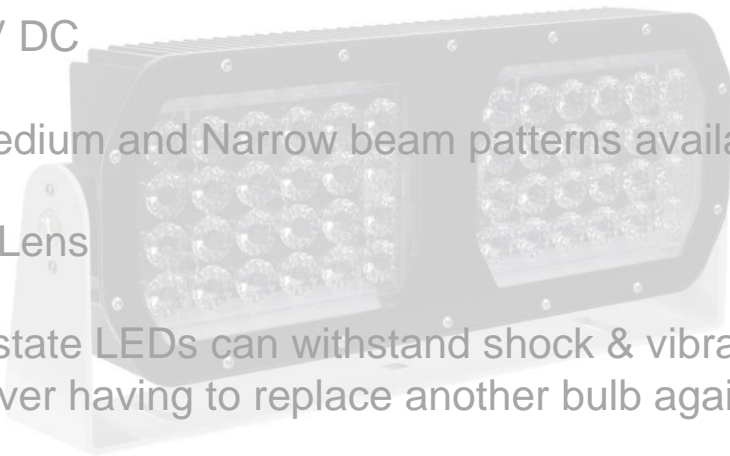
Crusher Area

LED 623 Lighting



Product Used 623

- ✓ 40,000 Raw Lumens; 20,000 Effective
- ✓ Voltage 16-60V DC
- ✓ Wide Flood, Medium and Narrow beam patterns available
- ✓ Durable Glass Lens
- ✓ 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 6406

- ✓ 24V 240W AC/DC Converter Box
- ✓ 106.00 (mm) / 4.17 (in)
281.00 (mm) / 11.06 (in)
318.72 (mm) / 12.55 (in)
- ✓ Rectangular
- ✓ Xenoy Black
- ✓ Input: 100-277 V AC 50/60Hz input Output: 24 V DC
Output Current Max: 10 Amp
UL recognized, Class 2 power supplies
- ✓ IP 69K
- ✓ AC Cable and DC cable to suit Model 6406 AC/DC Converter Box

Pole Set Up

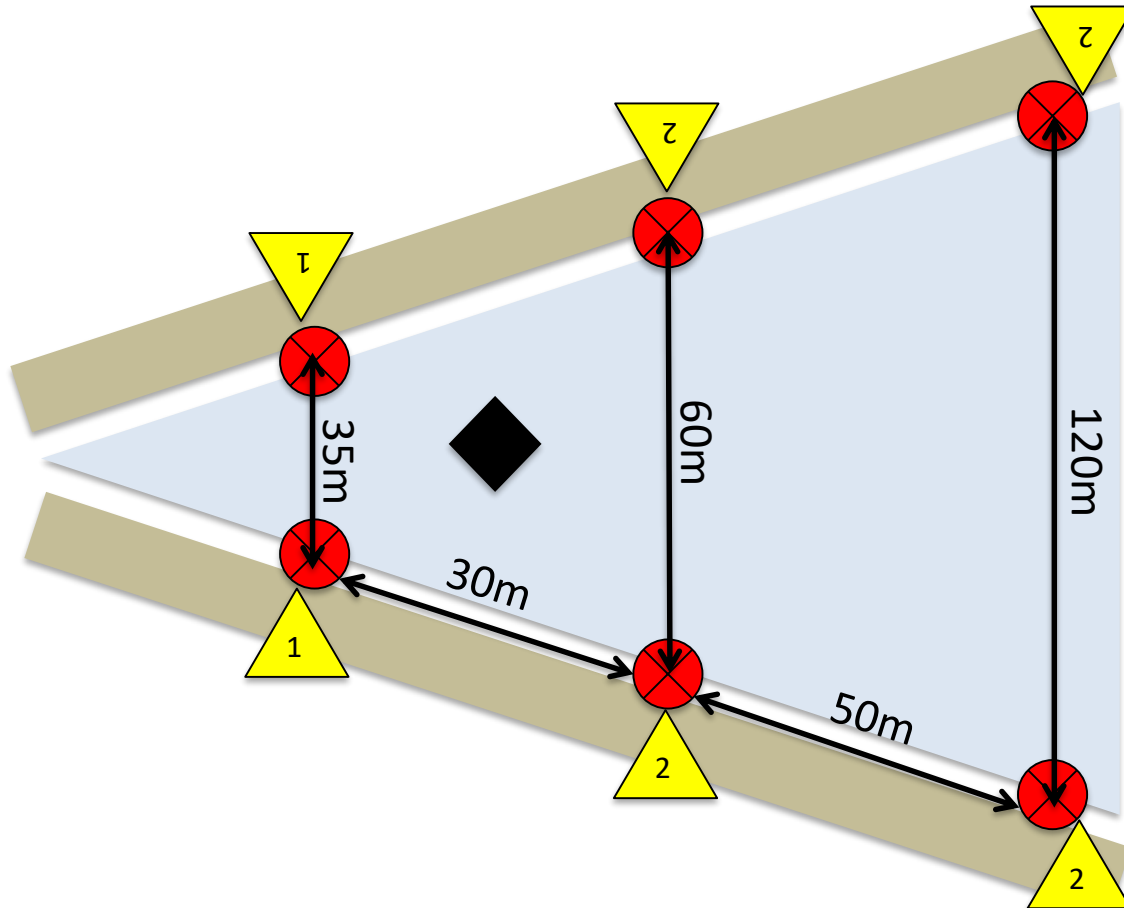


Requirement:

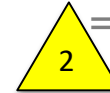
6 poles in Crusher area will have Model 623 Wide Flood along with converter boxes and cable to suit

- ✓ Pole are 22m high 623 mounted at the top
- ✓ Each lamp will have 240W converter box
- ✓ With AC/DC cable
- ✓ Model 623 IP67 Converter IP69K

Crusher Area Set up 10 Model 623WF



Pole



= # of lamps per pole

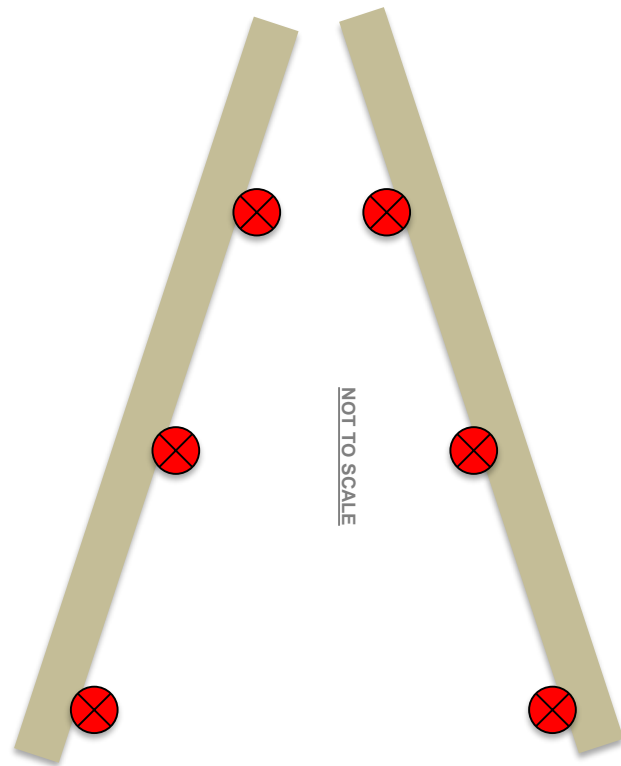
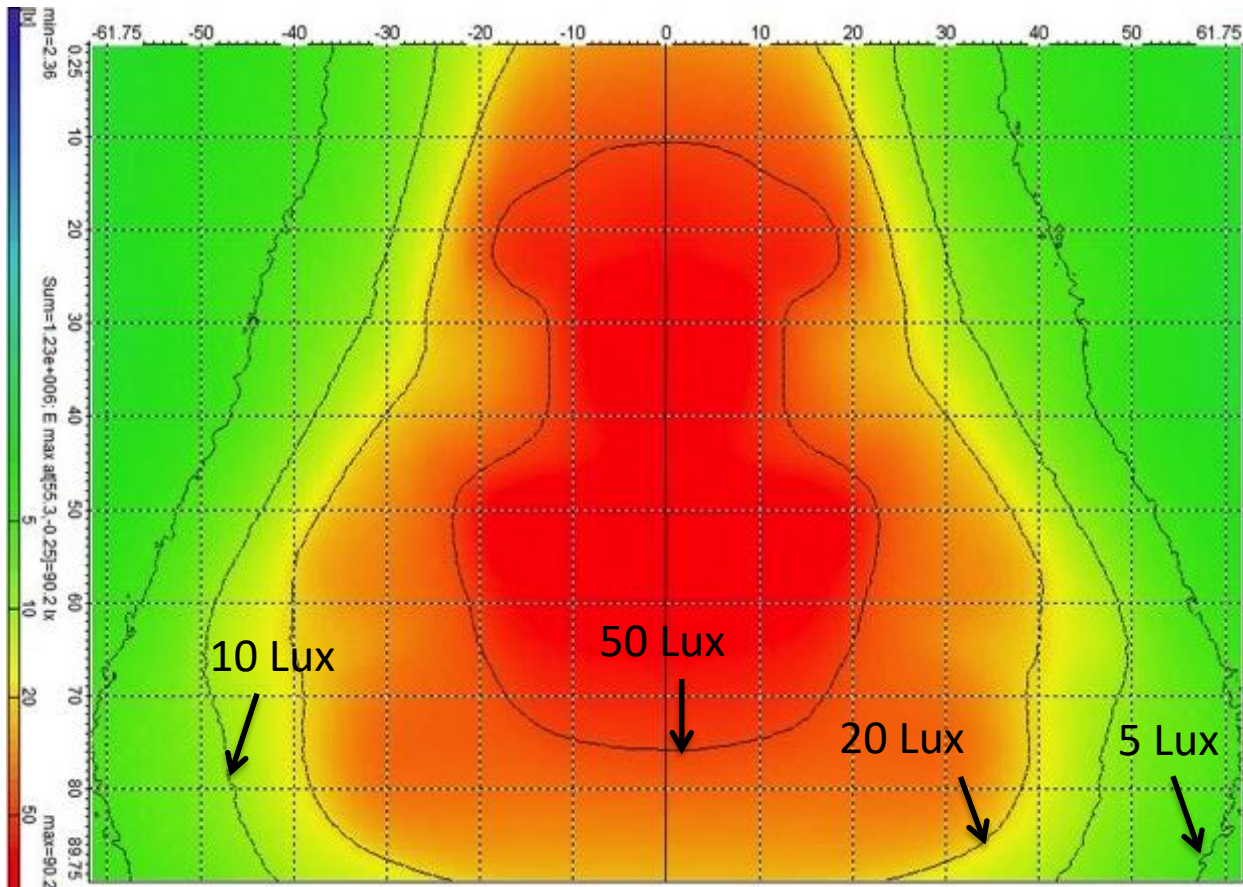


Crusher

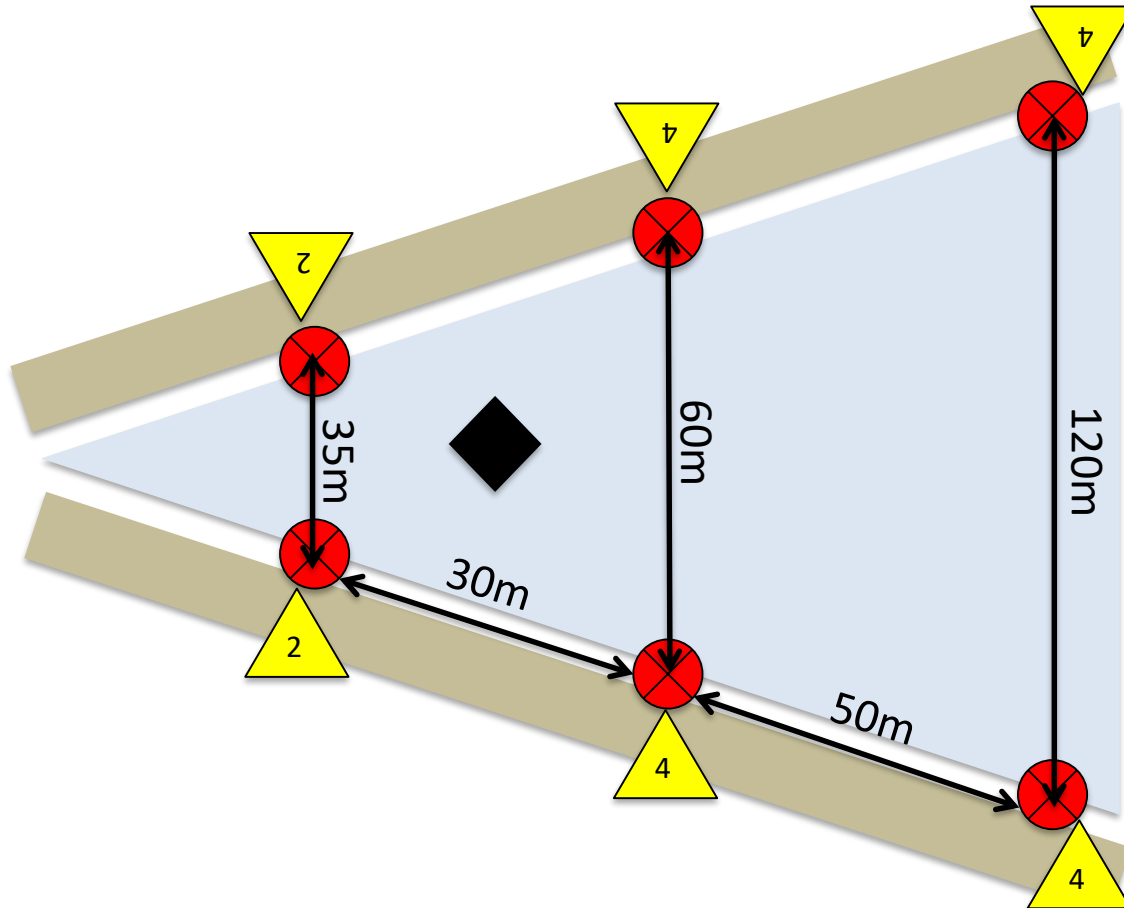
To get the layout supplied
in photos to layout properly
We used the dimensions
on this diagram

NOT TO SCALE

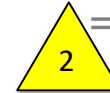
Crusher Area Set up 10 Model 623WF



Crusher Area Set up 20 Model 623WF



Pole



= # of lamps per pole

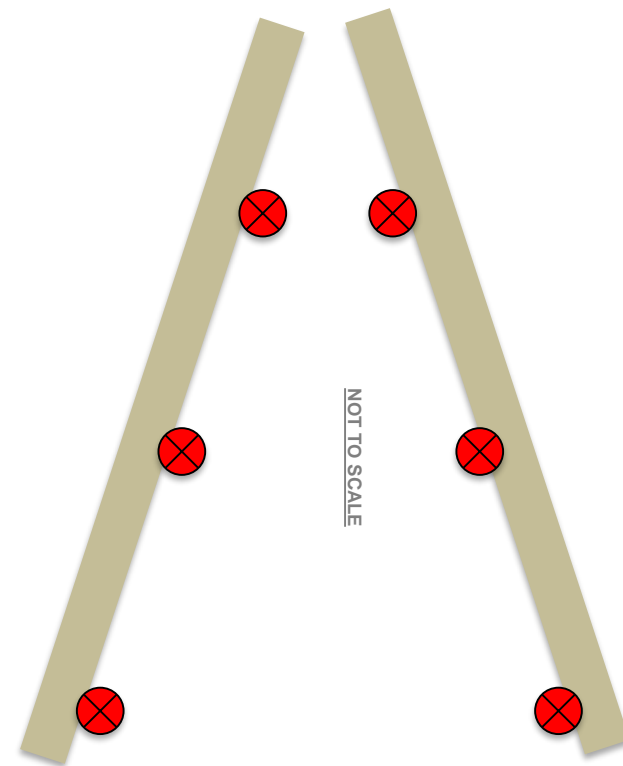
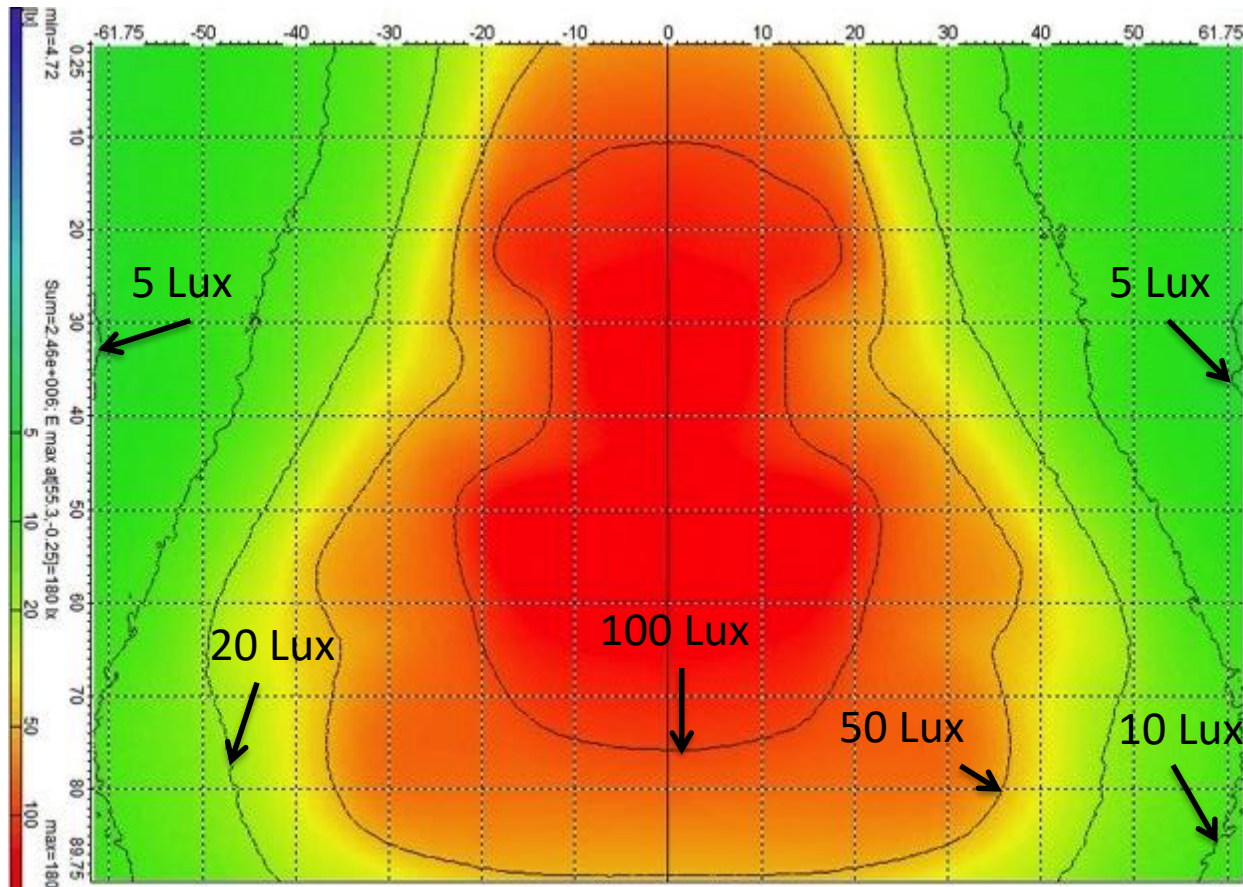


Crusher

To get the layout supplied
in photos to layout properly
We used the dimensions
on this diagram

NOT TO SCALE

Crusher Area Set up 20 Model 623WF



Color Temperature

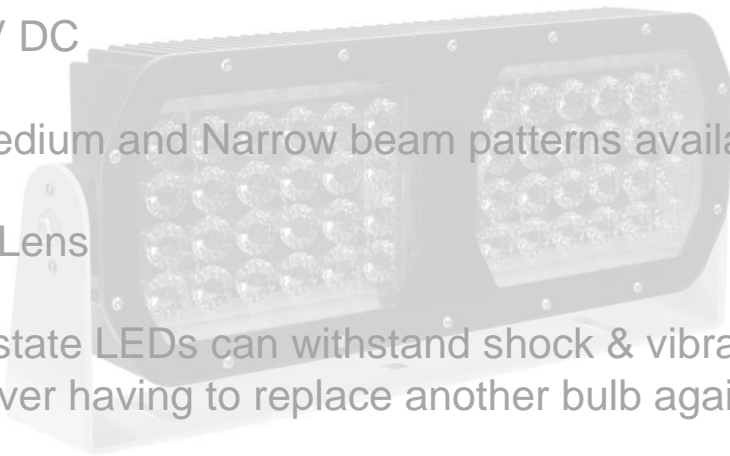
- Model 623 color temperature is 5000 kelvin
- 5000K-5500K is high noon daylight which the human eye likes it true daylight safety color for night outside work.
- J.W. Speaker, we not only select LEDs out of the highest lumen output bin but also accept only those LEDs with a color temperature of 5000K to 5500K, thus producing a light that truly shines like the sun at midday for safety at night!

4 Head Lighting Tower



Product Used 623

- ✓ 40,000 Raw Lumens; 20,000 Effective
- ✓ Voltage 16-60V DC
- ✓ Wide Flood, Medium and Narrow beam patterns available
- ✓ Durable Glass Lens
- ✓ 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



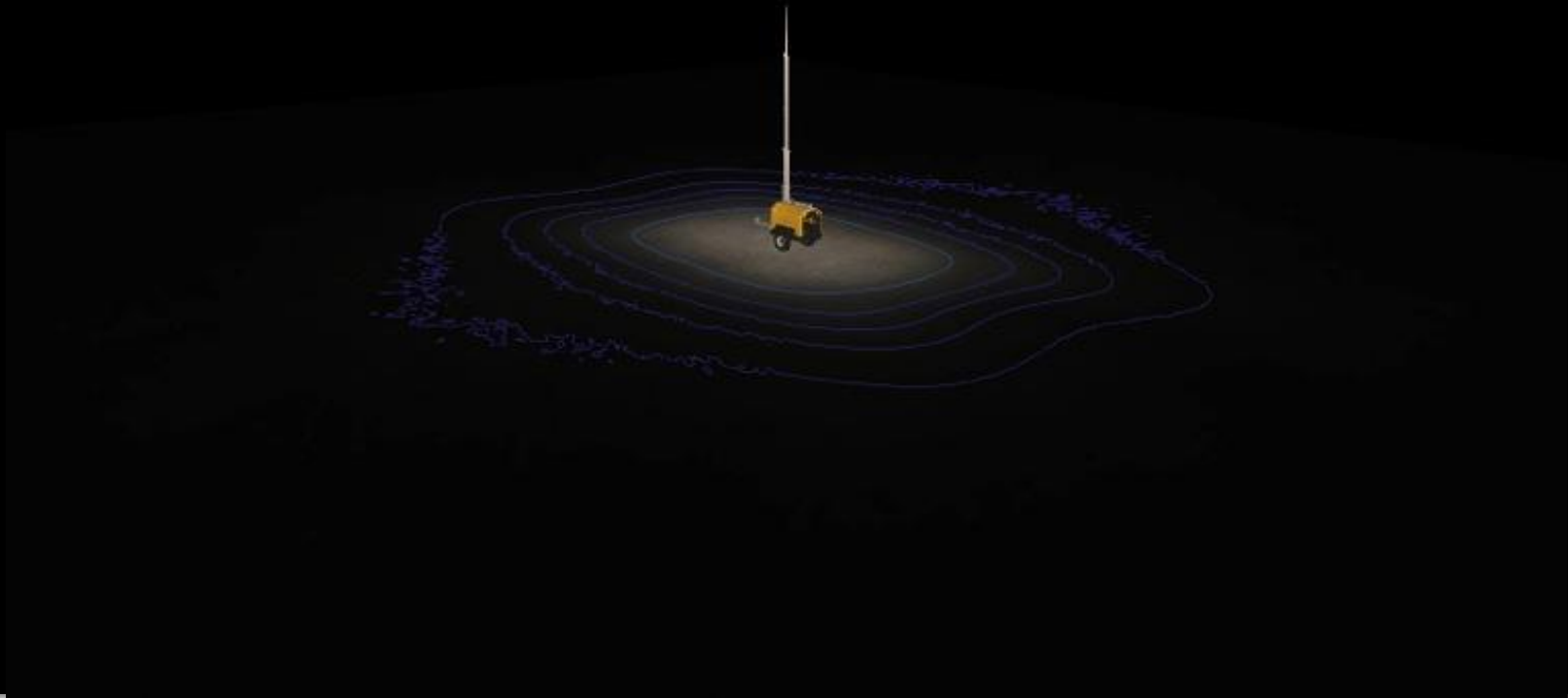
4 Head Lighting Tower Set up



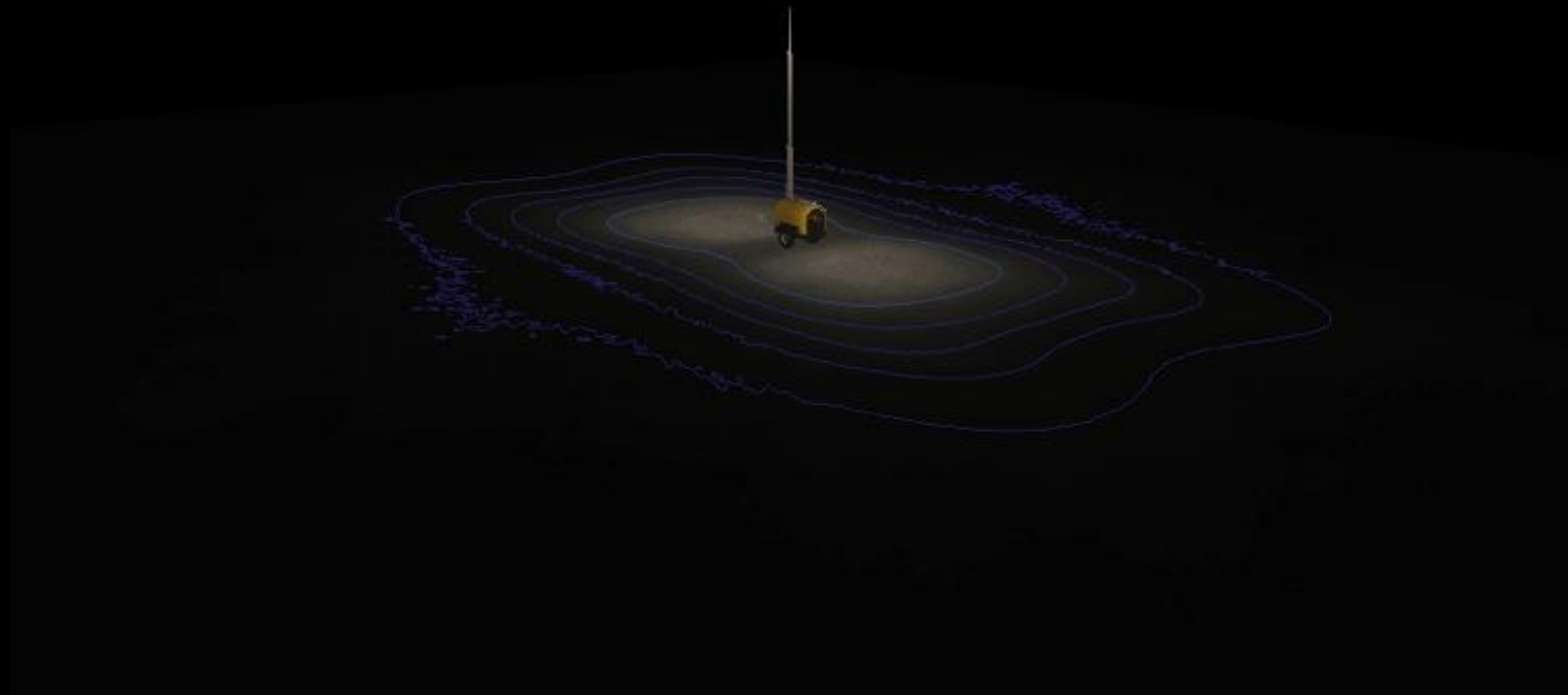
✓ 4 Model 623 set up on mask at high of 7.7m

✓ The following mapping is set up using different beams and degrees

VR Light Map with 4 x 623 15-degree Tilt

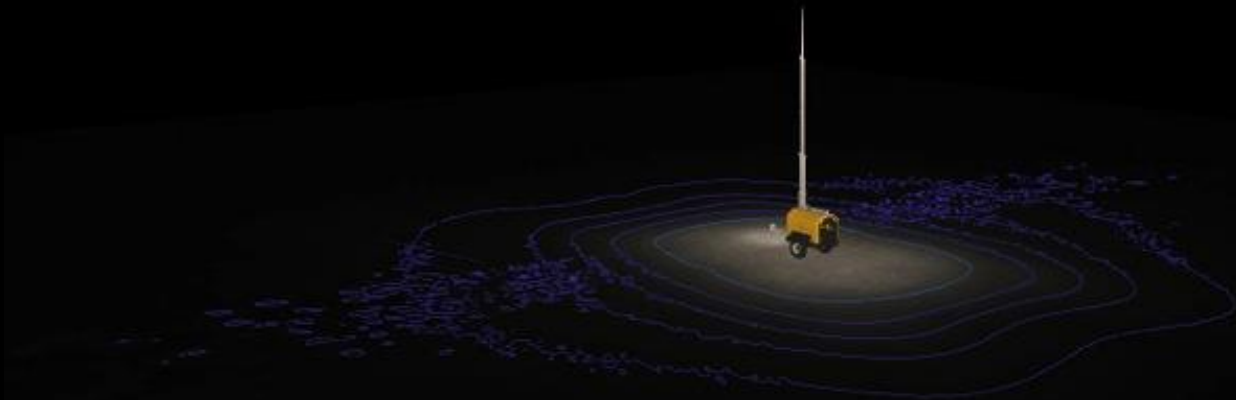


VR Light Map with 4 x 623 25-degree Tilt



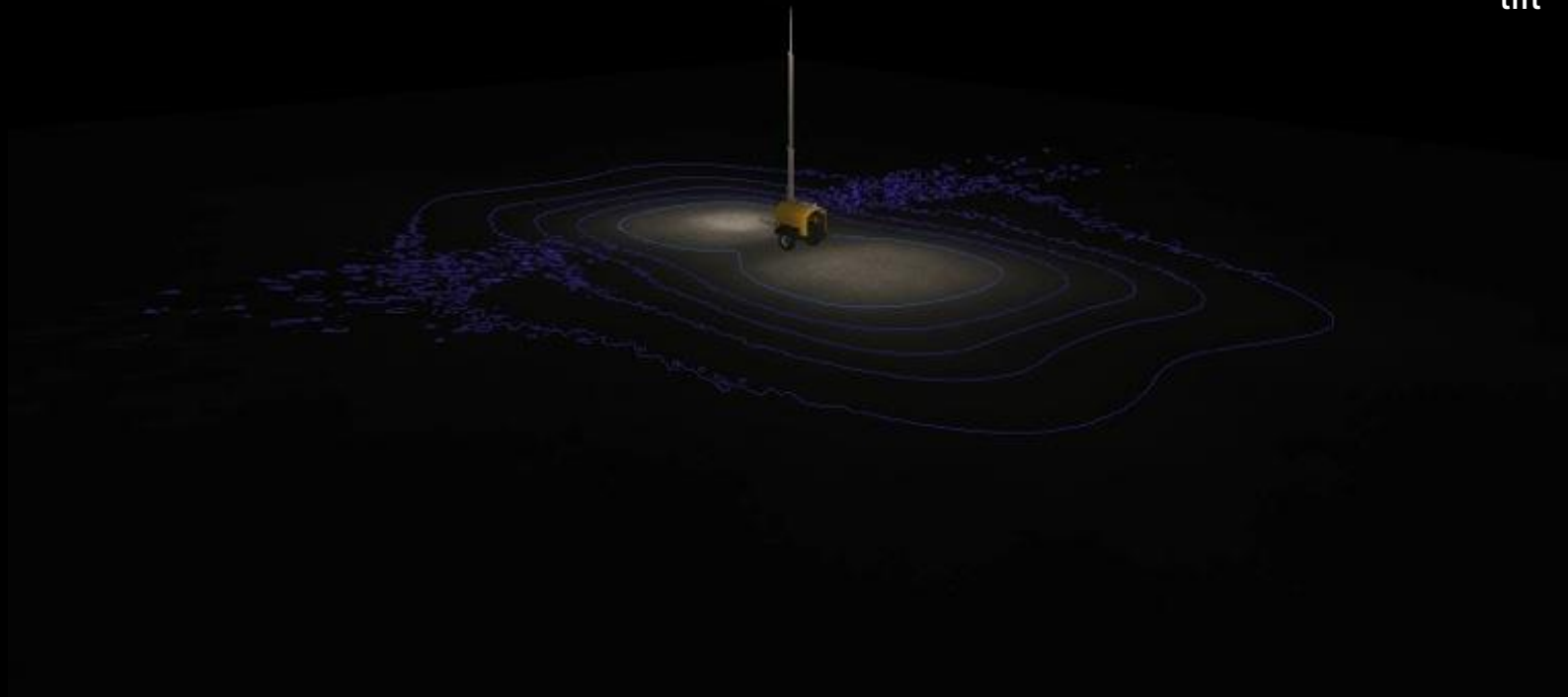
VR Light Map with 623

3 x 623 Wide
Flood 1 x Narrow
Flood 15-degree
tilt



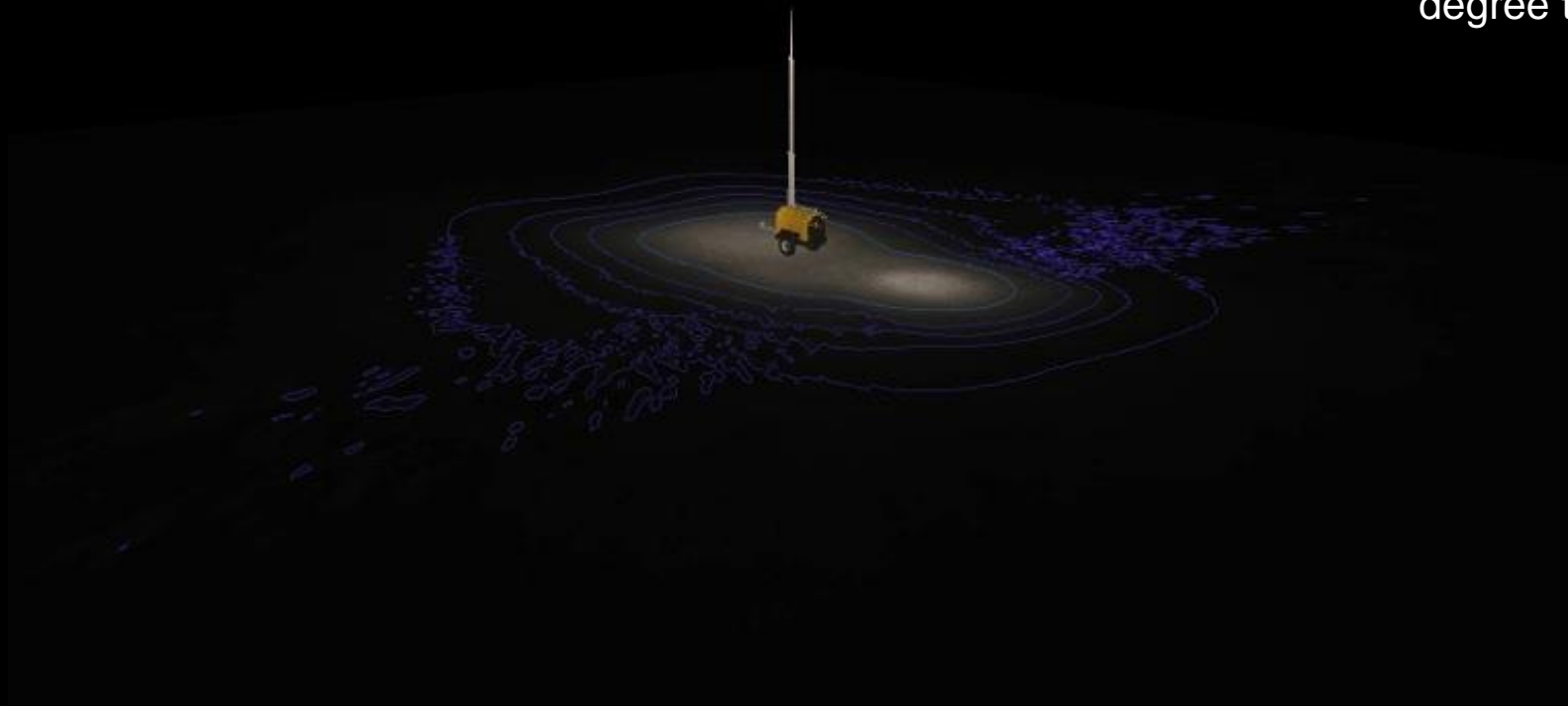
VR Light Map with 623

3 x 623 Wide
Flood 1 x Narrow
Flood 25-degree
tilt



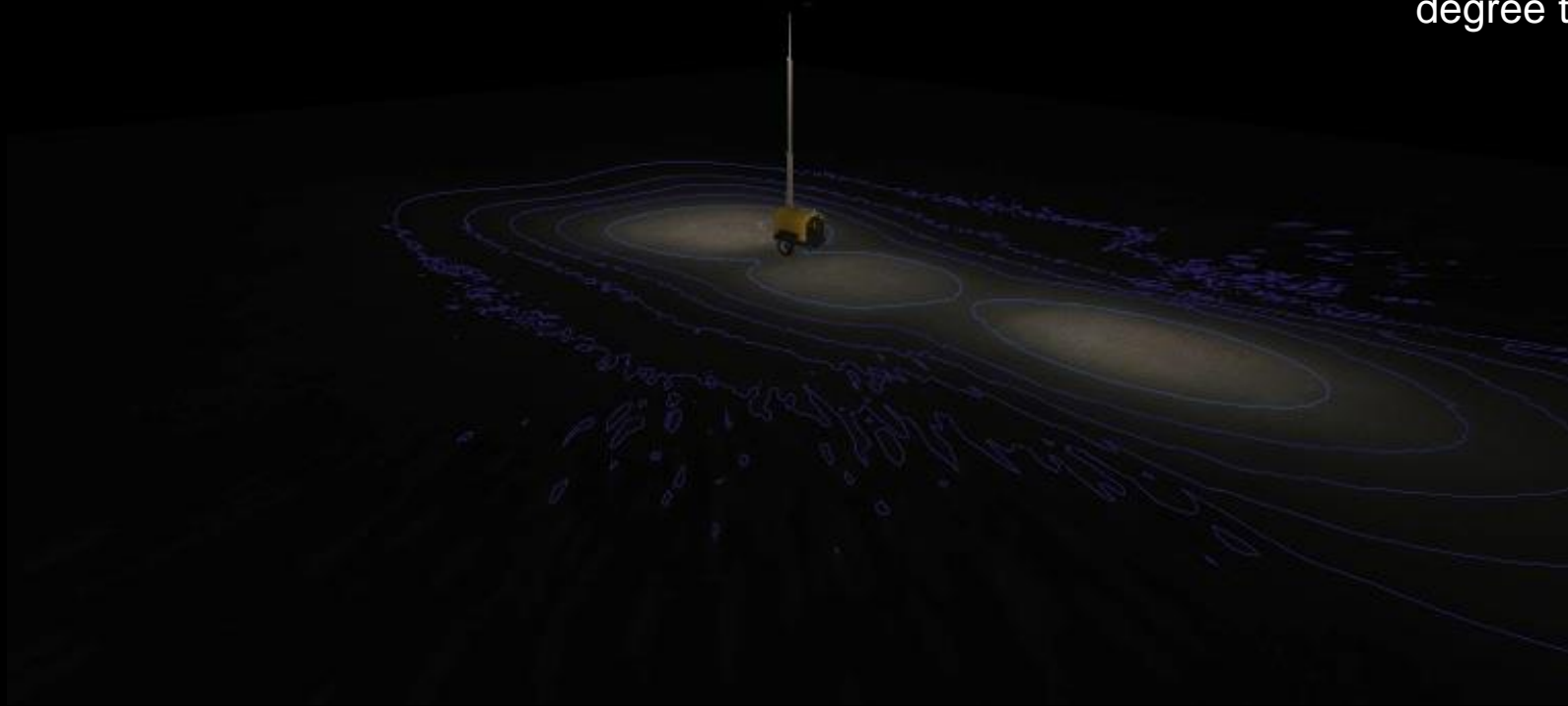
VR Light Map with 623

3 x 623 Wide Flood
15-degree tilt 1 x
Narrow Flood 35-
degree tilt



VR Light Map with 623

3 x 623 Wide Flood
25-degree tilt 1 x
Narrow Flood 70-
degree tilt



VR Light Map with 623

4 x 623 Super Wide
Flood 25-degree tilt

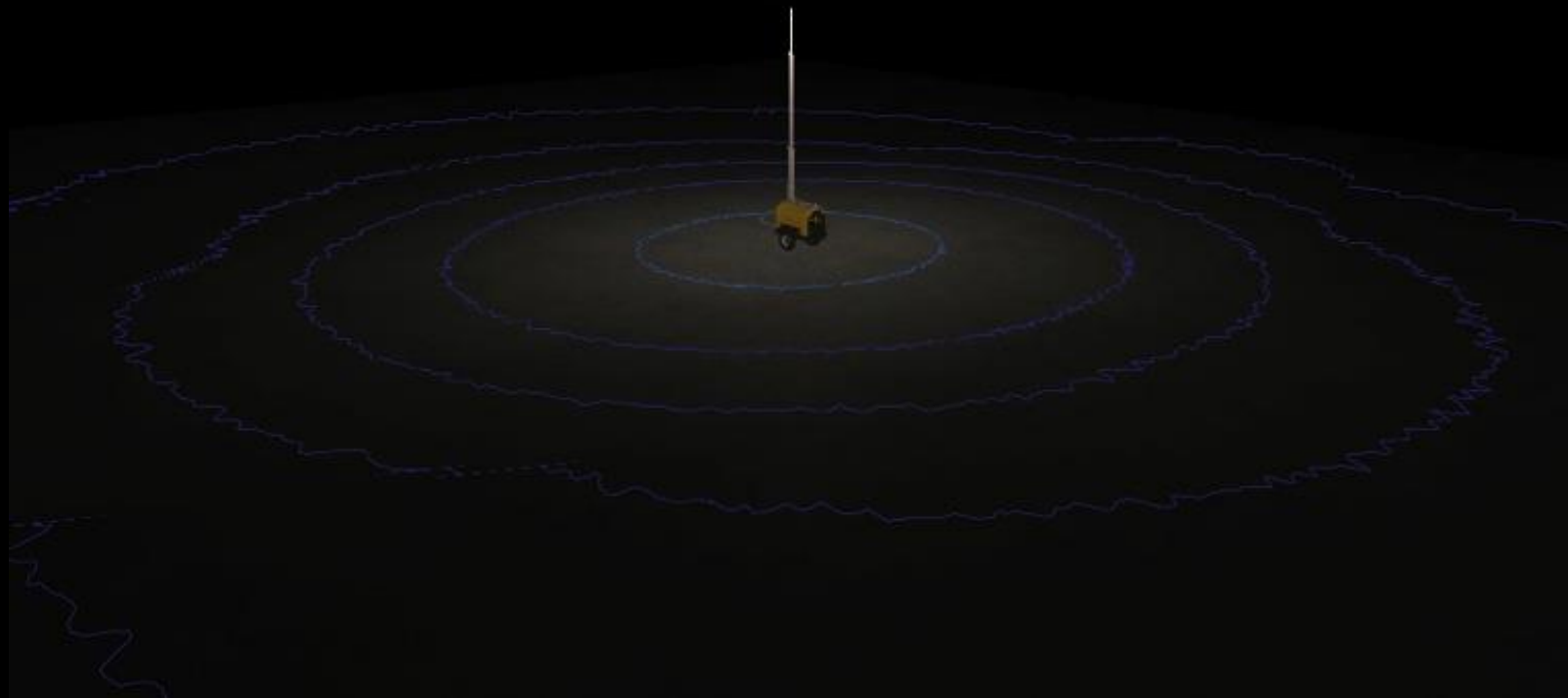


Photo 623 Lighting Tower Queensland



Photo 623 Lighting Tower Queensland

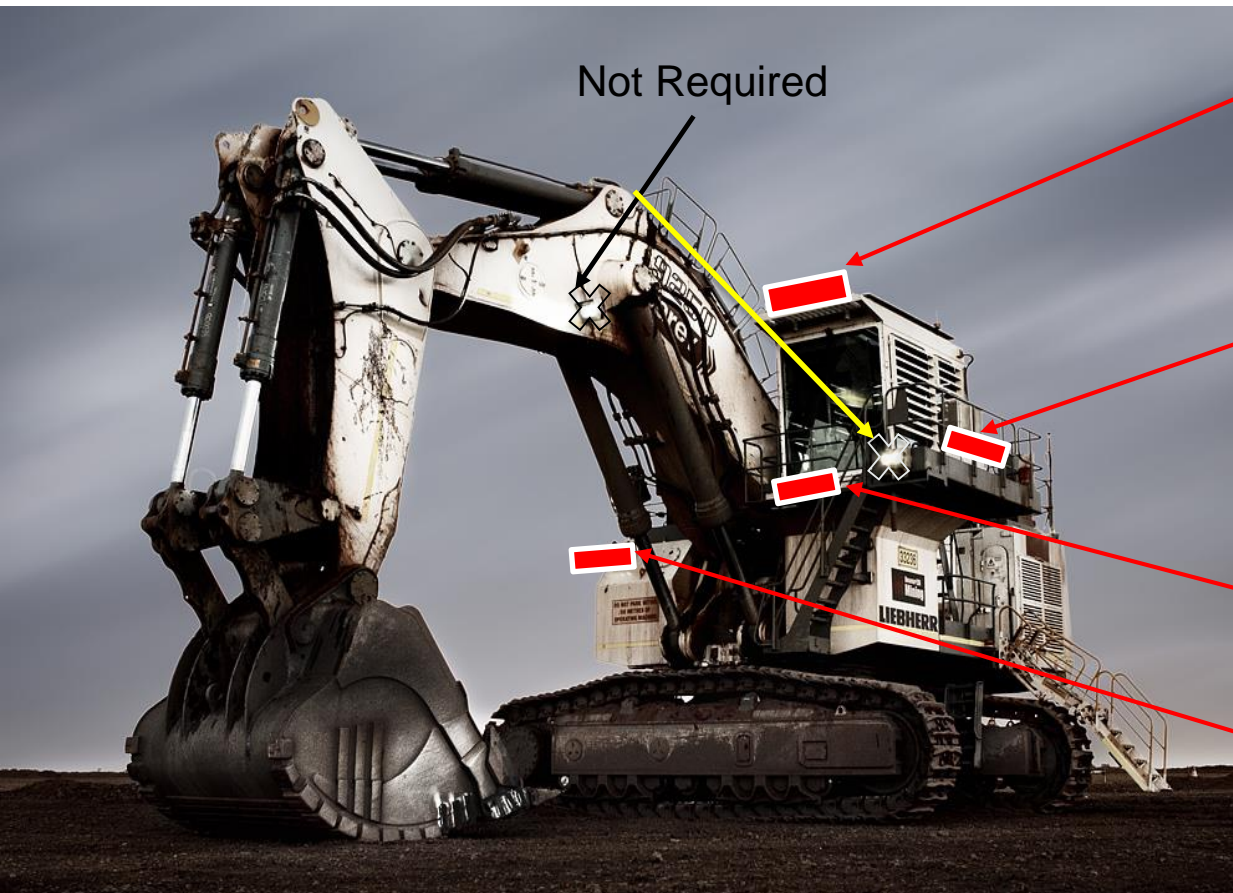


Lighting Specifications 9250

Mapping by Envision Sales Australia
Master Distributor



Liebherr— Model 9250



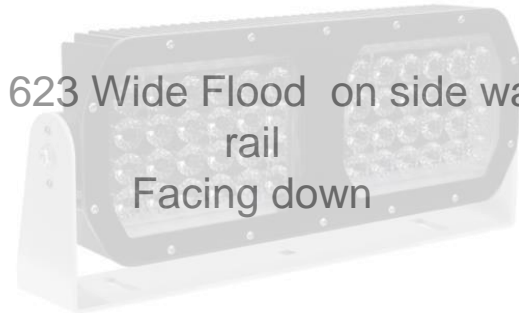
Not Required

1 x 623 Medium Flood on roof
front
Facing slightly down

1 x 623 Wide Flood on side walk
rail
Facing down

1 x 623 Wide Flood front walk rail
Facing hard down

1 x 623 Wide Flood on off side
Facing slightly down



Liebherr— Model 9250



2 x 623 Wide Flood
(1 each side)



2 x 832 Flood
Maintenance & Ladder
Light



Liebherr— Model 9250



Not Required

2 x 623 Wide Flood
(1 each side)



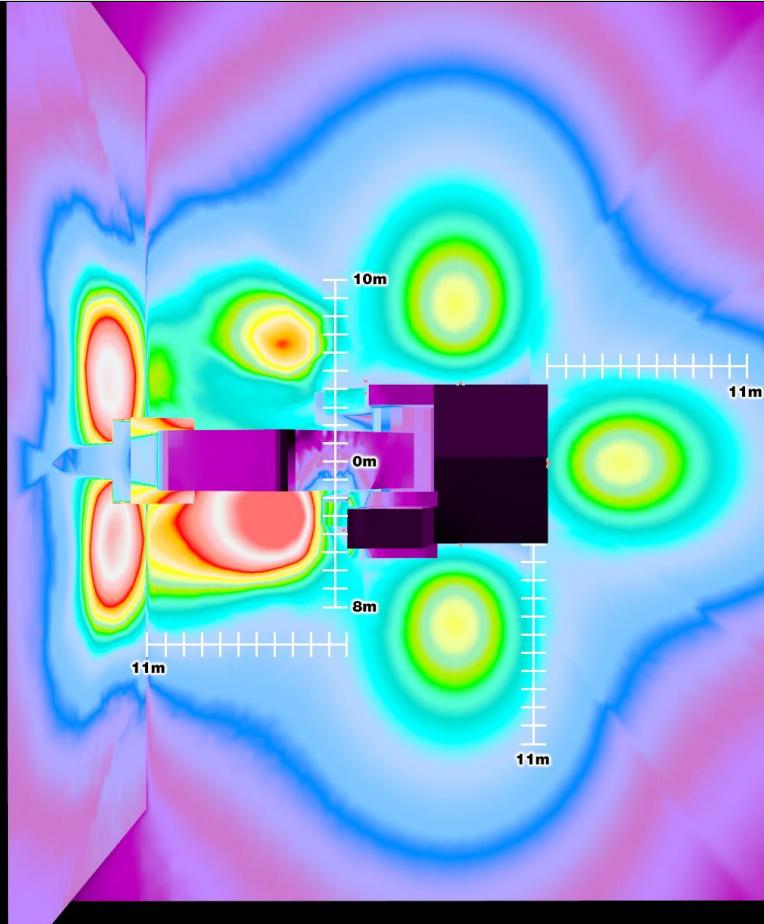
Liebherr– Model 9250 Set Up



Part No	Description	Qty	Location
0546681	623 Medium Flood Beam 16/60V	1	Top of Cab (Front)
0546691	623 Wide Flood Beam 16/60V	6	<ol style="list-style-type: none">1. Cab side walk rail (Side)2. Under Cab (Front)3. Offside side4. Off side front5. Rear off side6. Rear cab side
1300131	832 Flood	2	<ol style="list-style-type: none">1. Rear of Cab2. Ladder Light

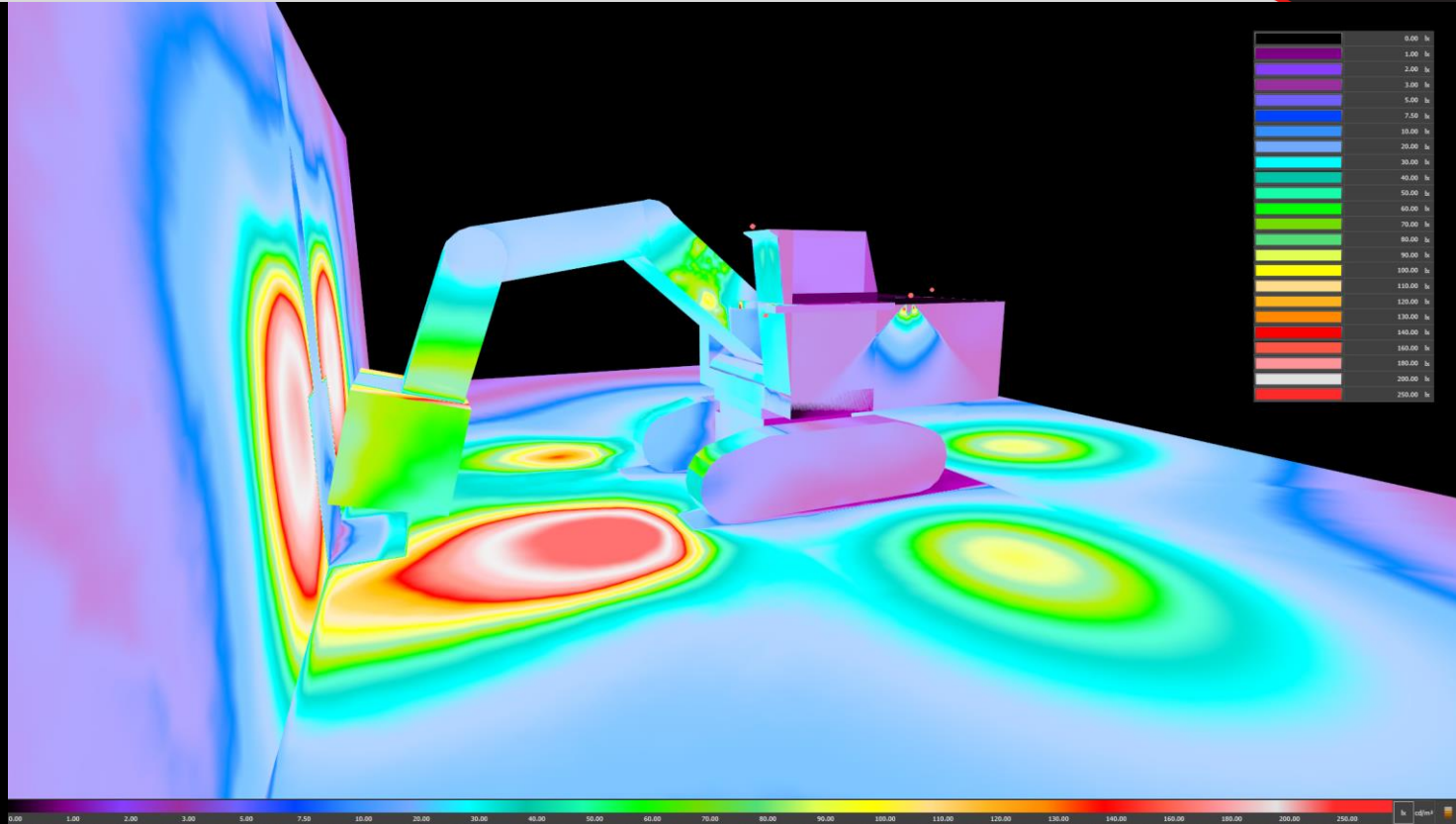
Note: With this configuration all existing lighting including boom lights can be removed.

Light Mapping



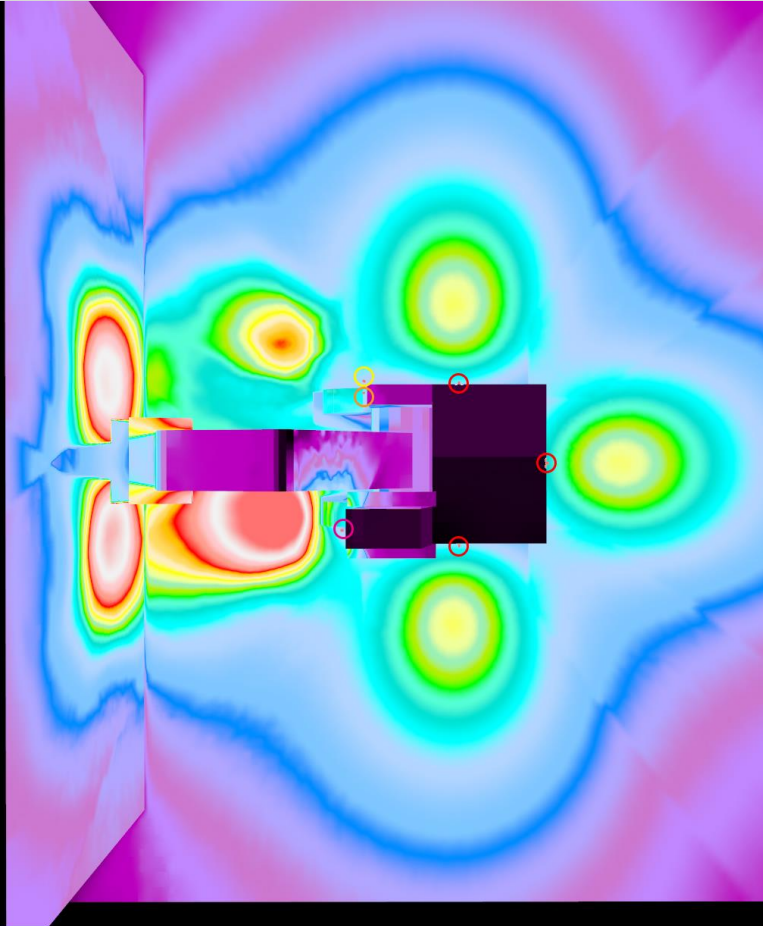
Note: With this configuration all existing lighting including boom lights can be removed.

Light Mapping



Note: With this configuration all existing lighting including boom lights can be removed.

Light Mapping



623 Super Wide Flood x 3
40 Degrees Down

526 Trap x 1
30 Degrees Out
45 Degrees Down

623 Medium Flood x 1
5 Degrees Out
10 Degrees Down

** Below Cabin **
623 Medium Flood x 1
5 Degrees Out
10 Degrees Down

** Above Cabin **
623 Medium Flood x 1
55 Degrees Down

Note: With this configuration all existing lighting including boom lights can be removed.

Hitachi EX2500

Indonesia Mine Set Up



Hitachi 2500 Set Up



Flood light fitting

Brackets bolted or welded

If bolted use 3 bolts on each light with lock nuts or spring washers



Wiring finished with heat shrink over connectors

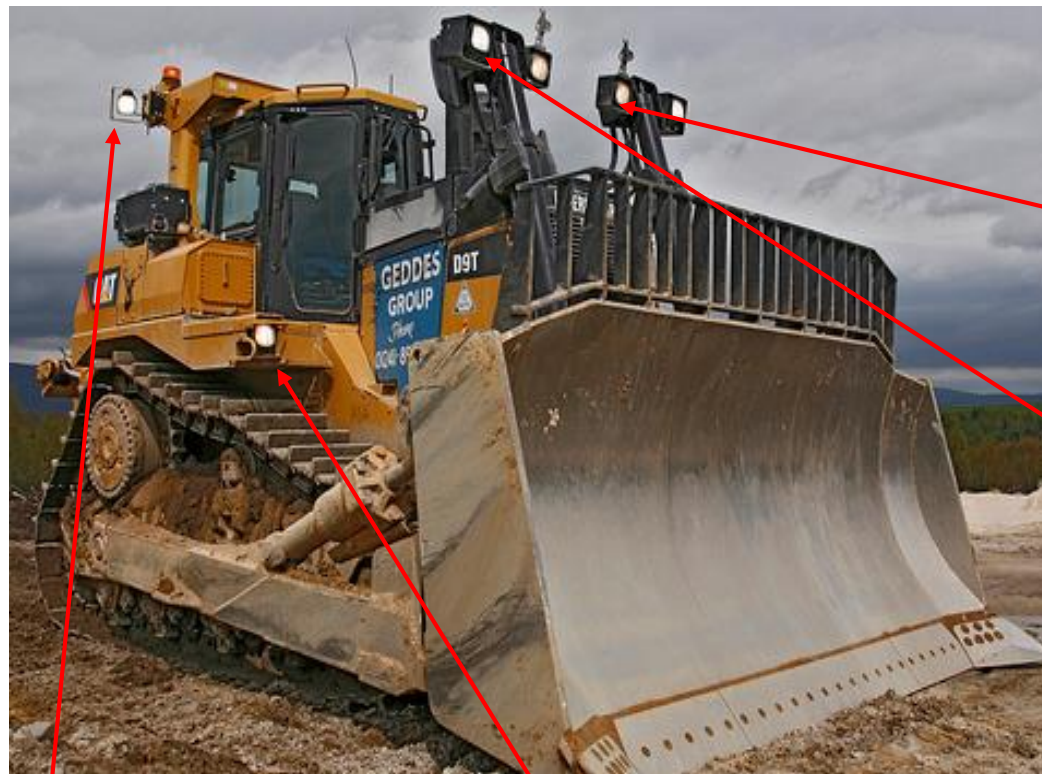
623 is supplied with 5.5 metres of 5mm cable. If extended longer, use solder or crimp to join and use 6mm cable for longer extension.



Other Mining Equipment

LED Lighting

CAT D9 Dozer



2 x 526 Low Beam
Anti-glare (Inside)



2 x 526 Flood
(Outside)



2 x 832 Flood



2 x 832 Flood

CAT D9 Dozer



2 x 526 Flood



2 x 832 Flood

Part Number	Model	Description
1300191	526XL	Antiglare Low Beam PC Lens 12/24V
1300201	526XL	Flood Beam PC Lens 12/24V
1300131	832	Flood Beam PC Lens 12/24V
1300121	832	Trap Beam PC Lens 12/24V

CAT 14M to 16M Grader



CAT 14M to 16M Grader



Full LED Spec

2 x 526 Flood = Front

2 x 526 Flood = Rear

6 x 832 Flood= Blade & Side illumination

2 x 832 Trap = Rear Top of Cab

2 x 9800 Headlamp = Front

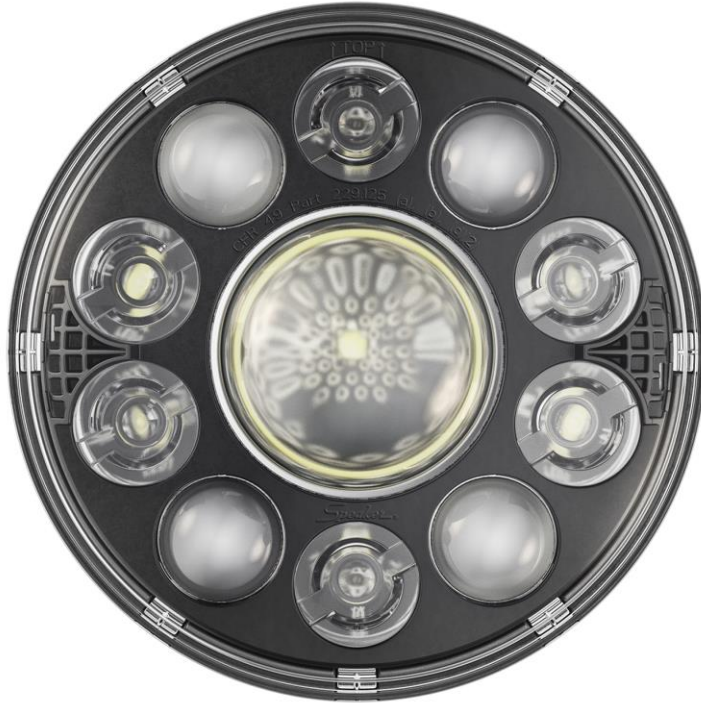
Part Number	Model	Description
1300201	526XL	Flood Beam PC Lens 12/24V
1300131	832	Flood Beam PC Lens 12/24V
1300121	832	Trap Beam PC Lens 12/24V
0550061	9800	Headlamp with turn, DRL and Park

Locomotive

LED Headlamp



8770 Spec



JW Speaker Model 8700

> 300,000 Cd

> 10 lux @ 250m

Primary beam 5°

> 30K hrs, 5 yr warranty

63W @ 75v DC

Driver is internal to lamp

20-300Hz, 10G, 8hrs, 3-axis. HALT

CISPR 25 Class 2 Radiated

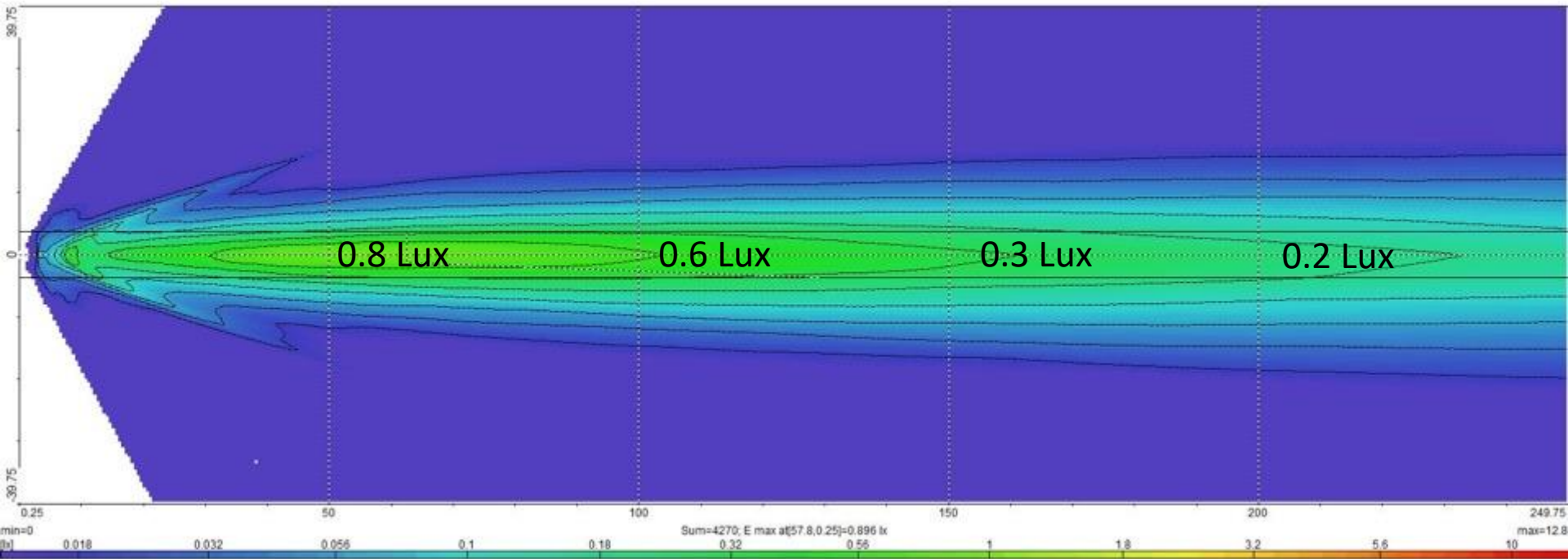
-40°C to +65°C

IP66 for complete lamp

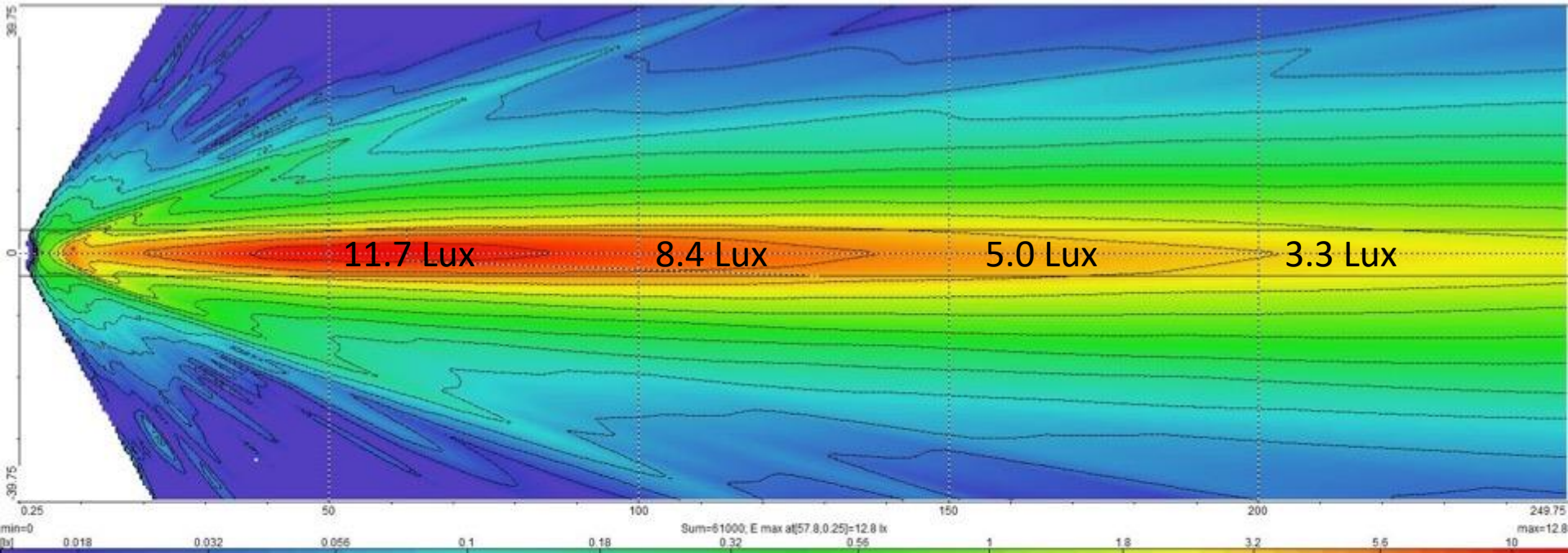
1.2 kg ; 2.7 lbs

168mm Diam. Standard Par 56

Lux Chart Low Beam



Lux Chart Hi Beam

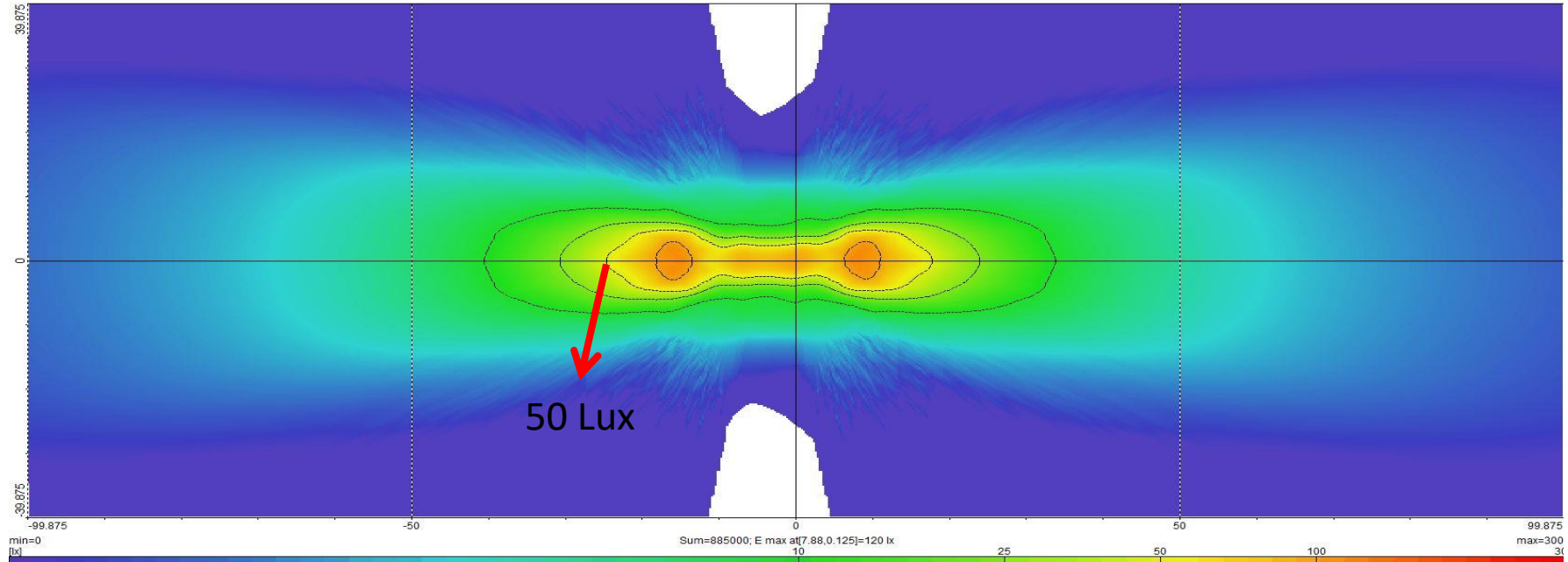


Port Straddle Crane

LED Lighting

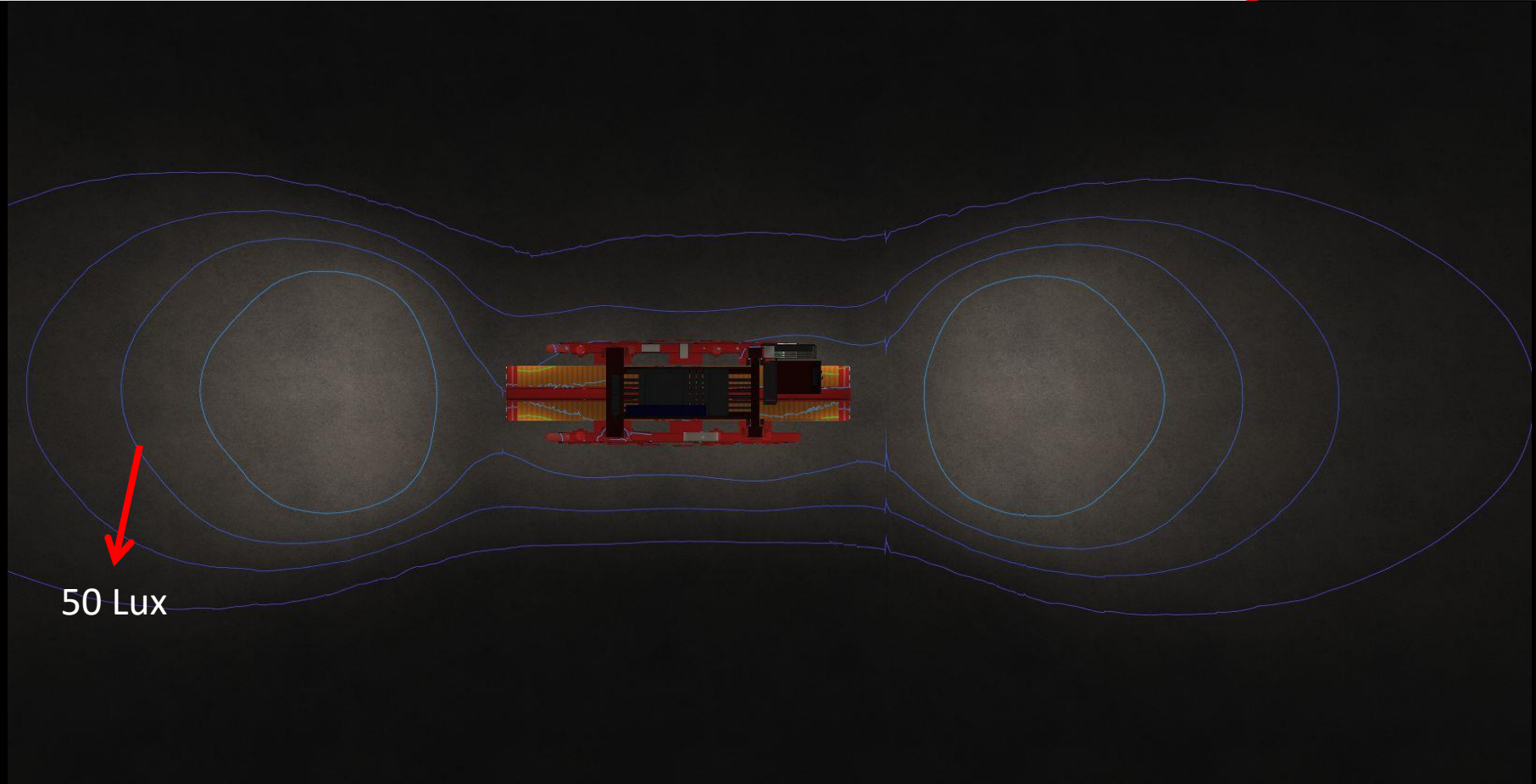


Bird Eye View Lux with 523 and 7150

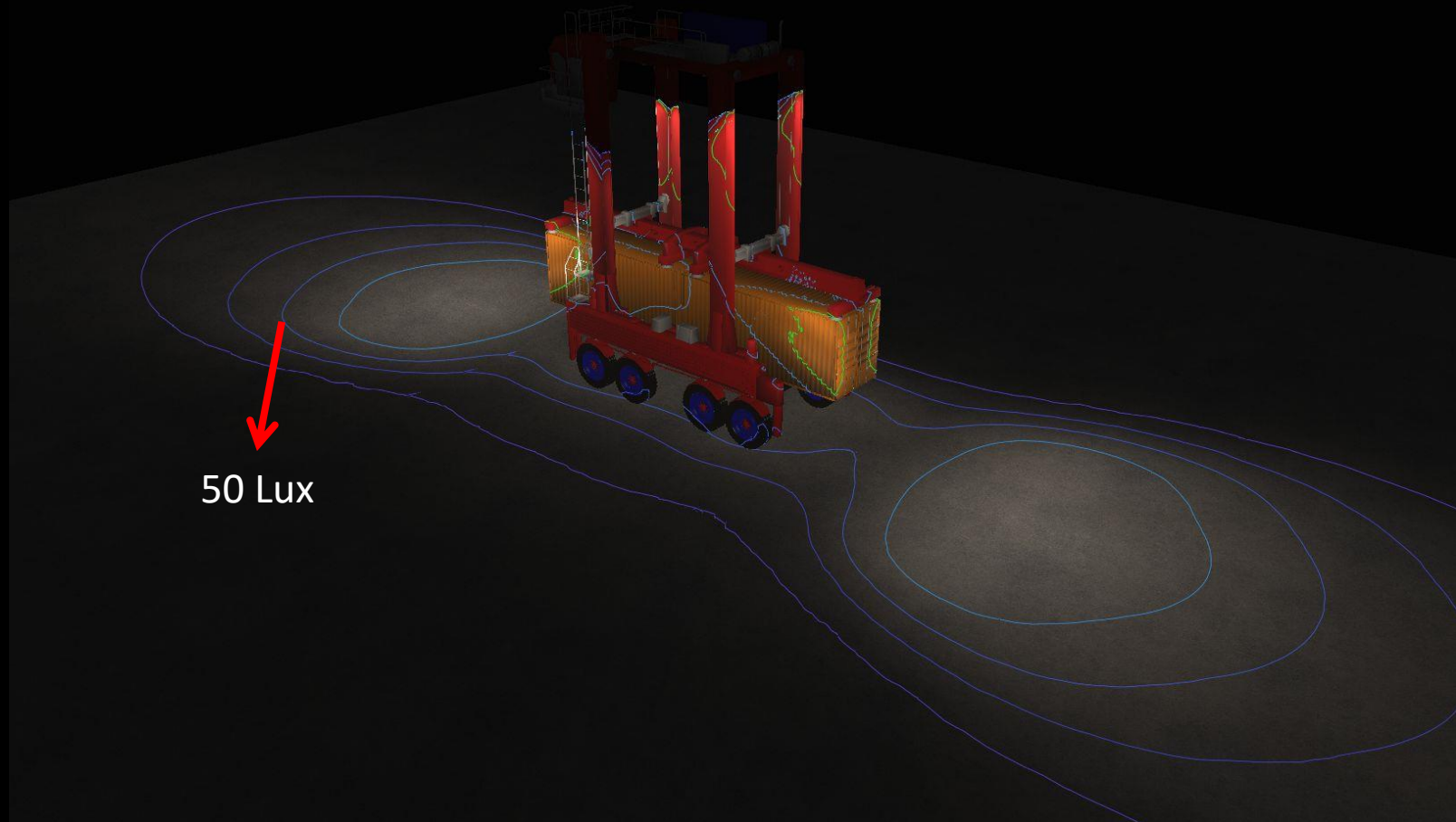


Diagrams show the lux values on the ground only, with no obstructions considered

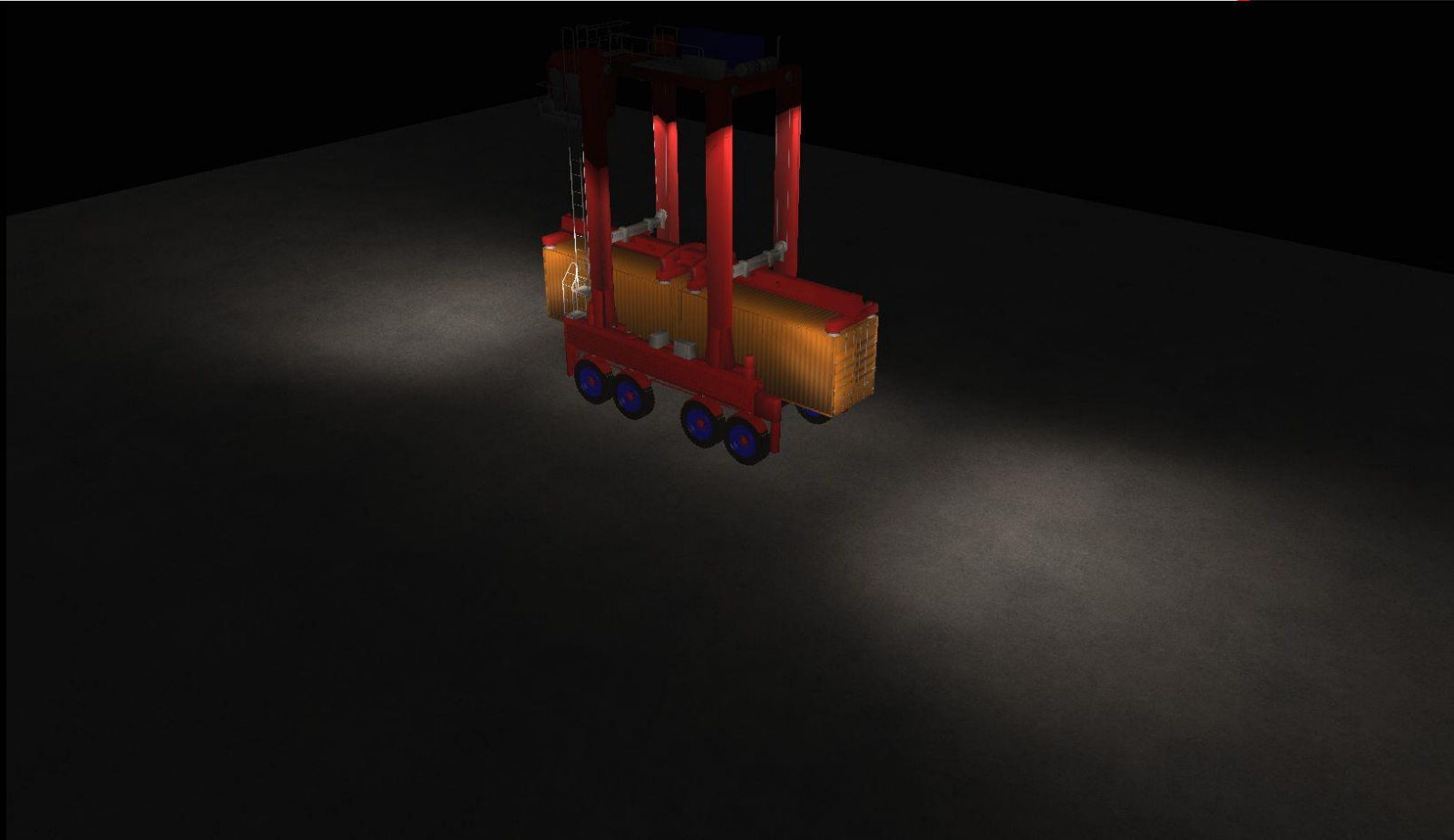
VR Light Map with 523 and 7150



VR Light Map with 523 and 7150



VR Light Map with 523 and 7150



Night Photo Straddle 523 and 7150

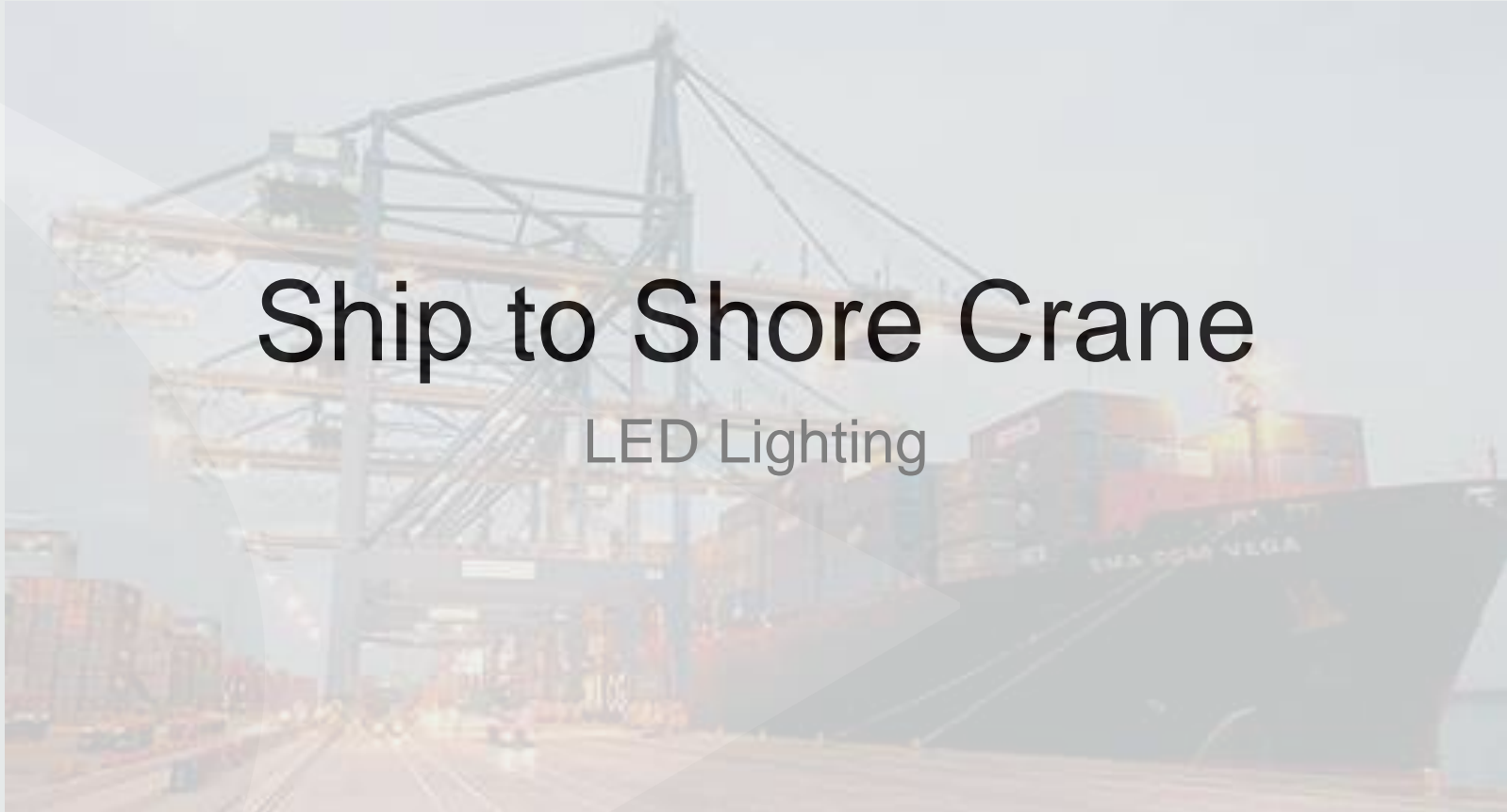
Patrick Port Services - Straddle Carriers

Product Fitment
7150 Flood x 6
523 Wide Flood x 2

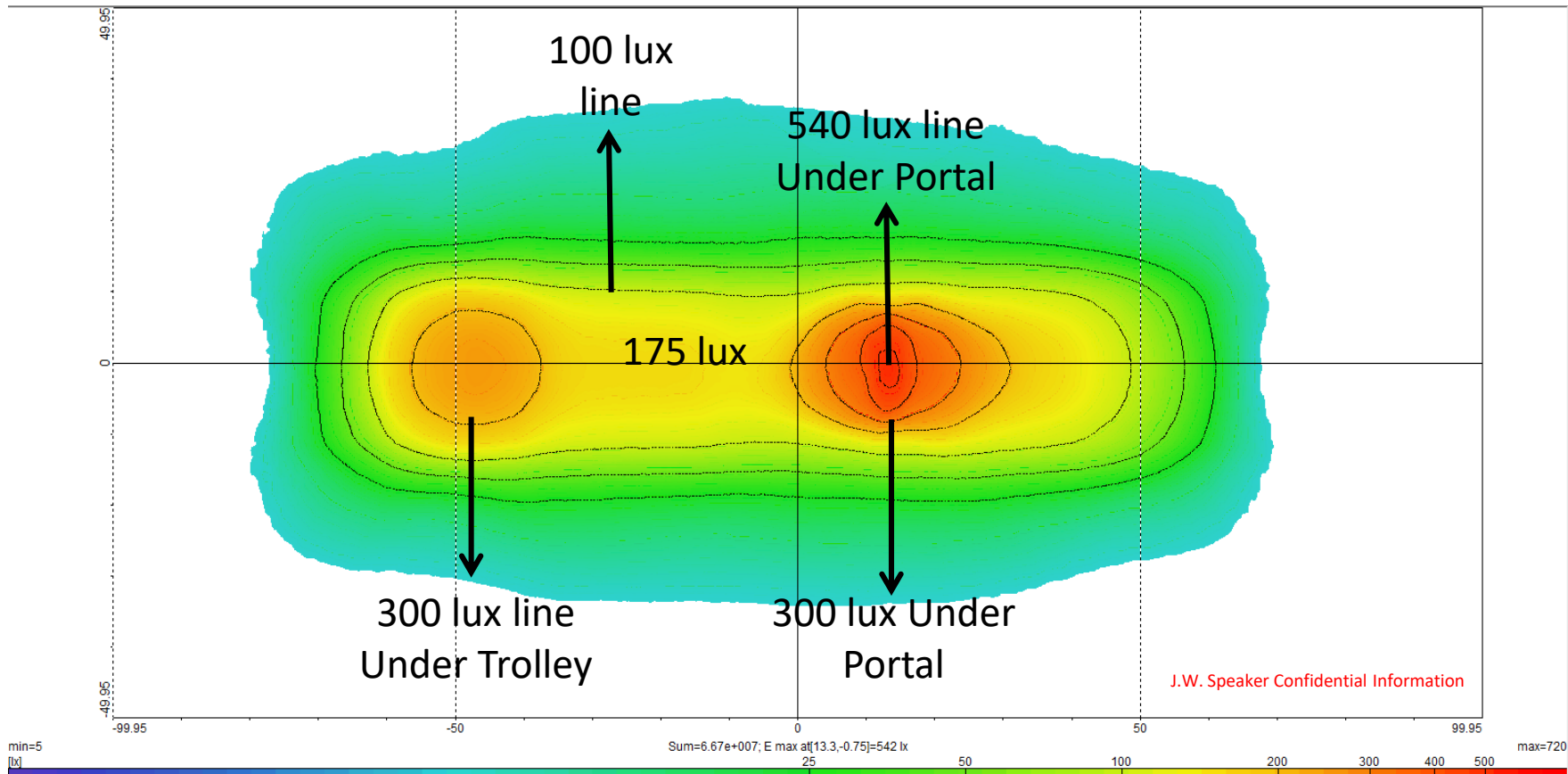


Ship to Shore Crane

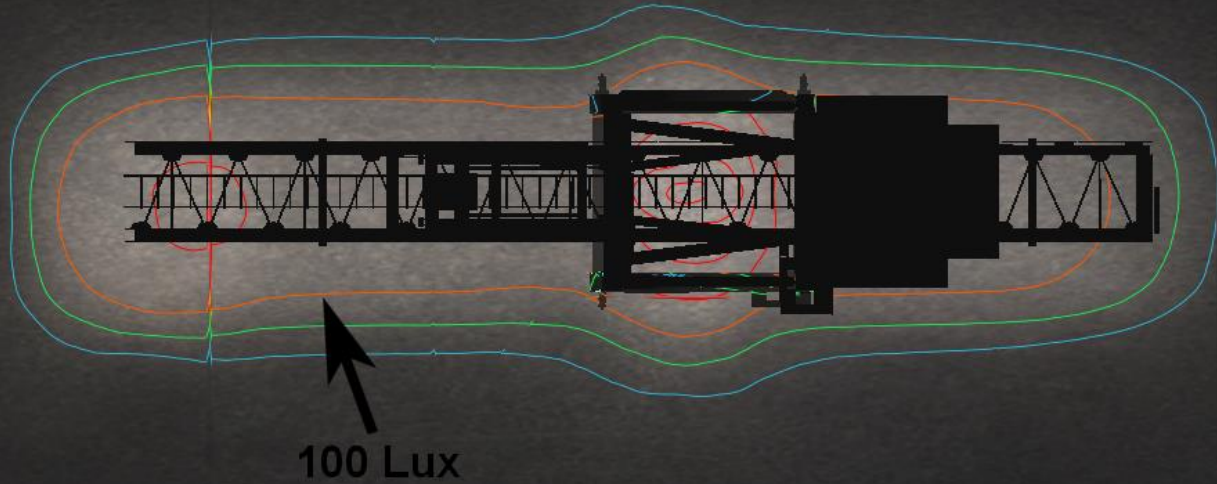
LED Lighting



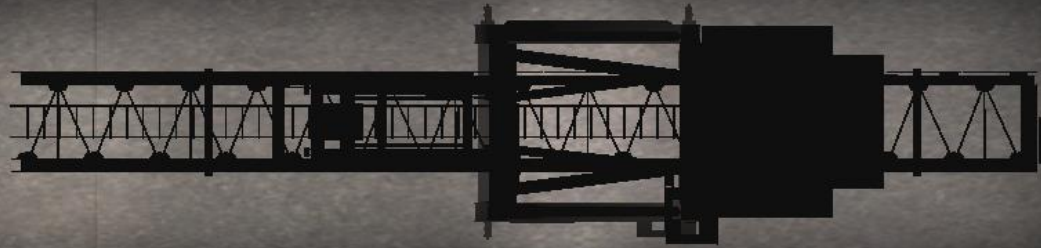
Bird Eye View Lux with 623



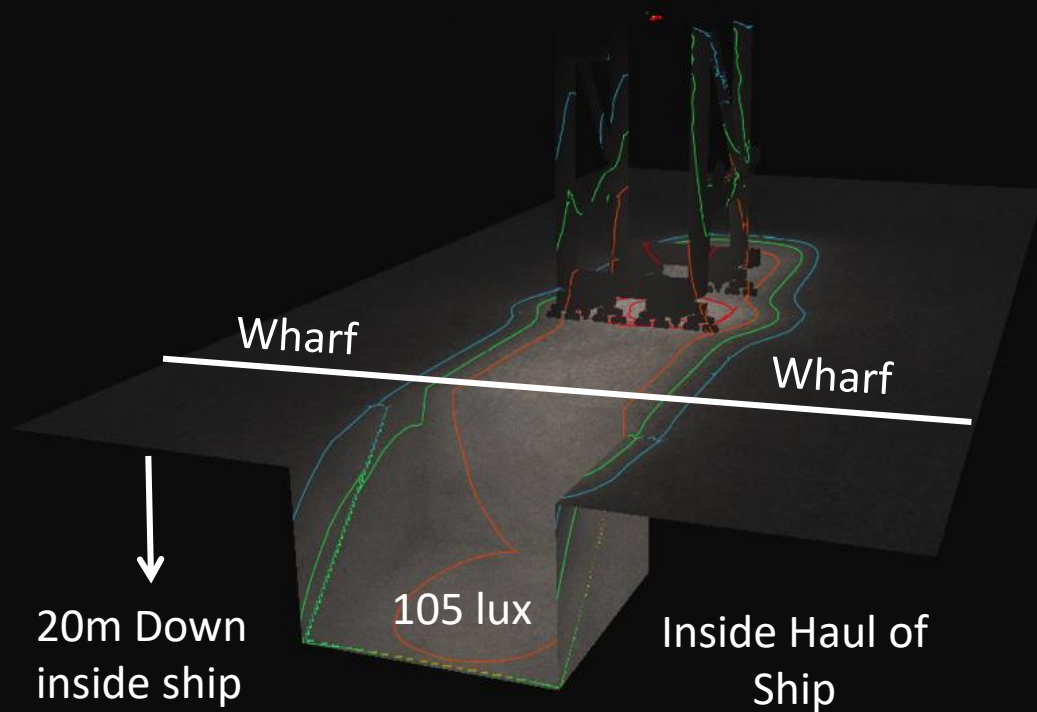
VR Light Map with 623



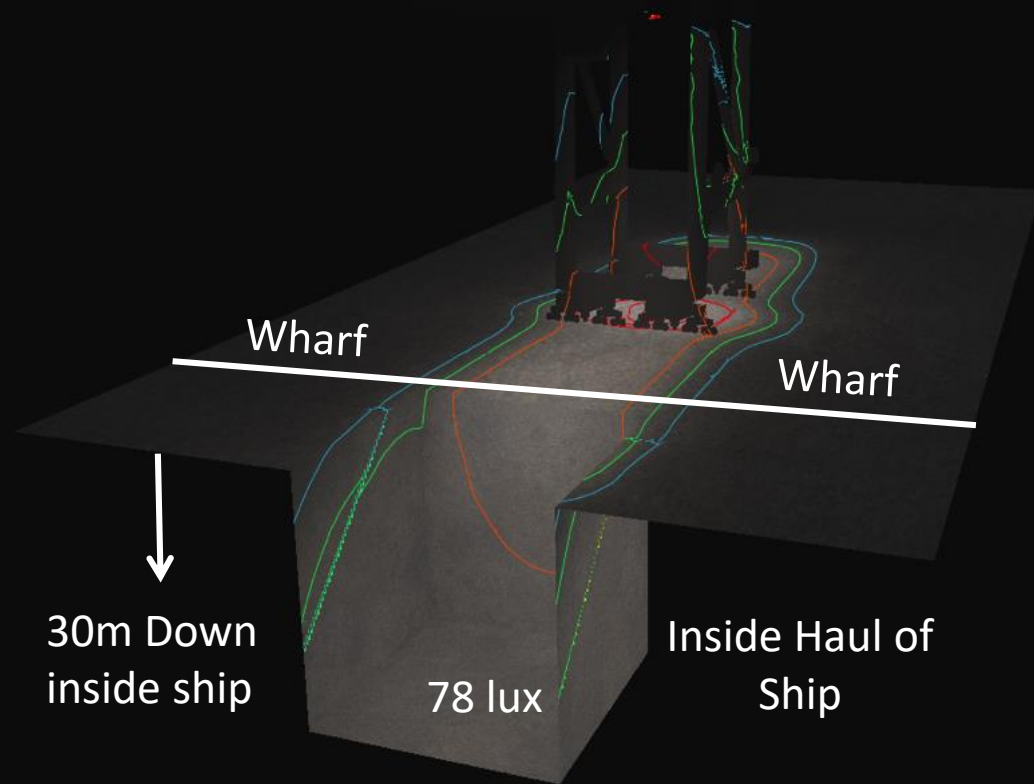
VR Light Map with 623



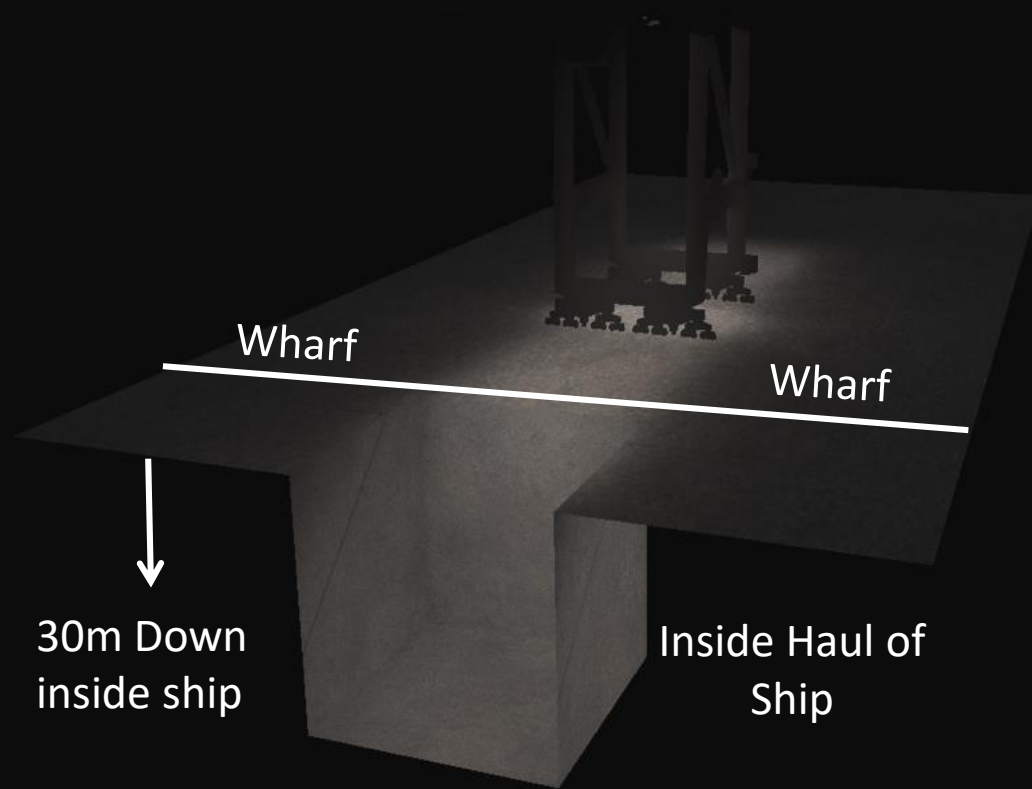
VR Light Map with 623



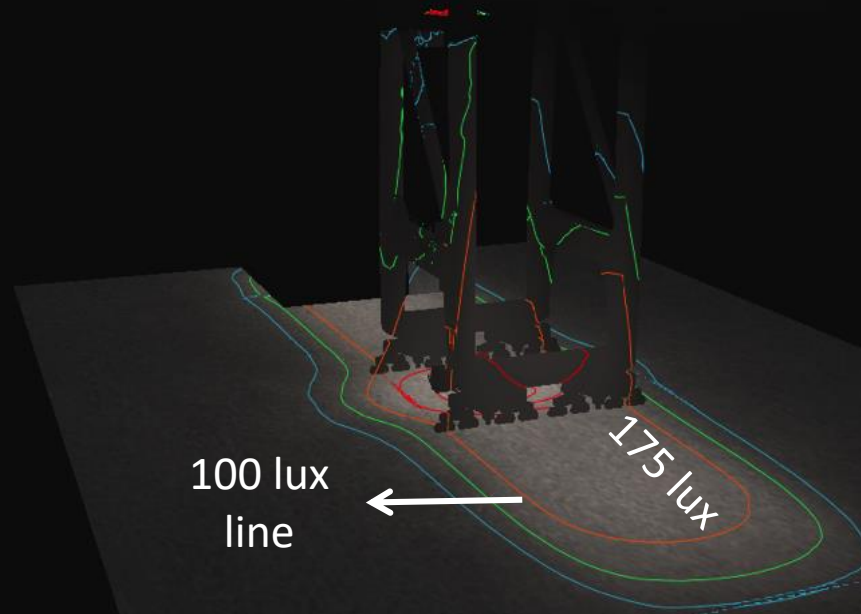
VR Light Map with 623



VR Light Map with 623



VR Light Map with 623



Night Photo Ship to Shore Crane 623

J.W. SPEAKER
Engineered. Lighting. Solutions.

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



Aftermarket Committed

- ✓ Development full range of fast moving LED forward product for Aftermarket Distributors worldwide
- ✓ To ensure we meet all our Distributors needs and wants worldwide
- ✓ Meet all standards worldwide for our Distributor
- ✓ Visit our distributors and their dealers for product training on our brand
- ✓ To support Distributors management team to ensure we all meet our goals

Summary

- ✓ J.W. Speaker Corporation are market leaders with many world first LED forward lighting program
- ✓ We are fully dedicated to our Key OEM and Aftermarket distributors and listen to theirs needs and wants
- ✓ We are always looking for new technologies to ensure the best quality is given to our customers worldwide
- ✓ We fully design and manufacture our products in the US
- ✓ We are leaders in our field for LED forward white lights in the world and value our new and old customers commitment and relationship to us

We thank you for your time
Any further question