

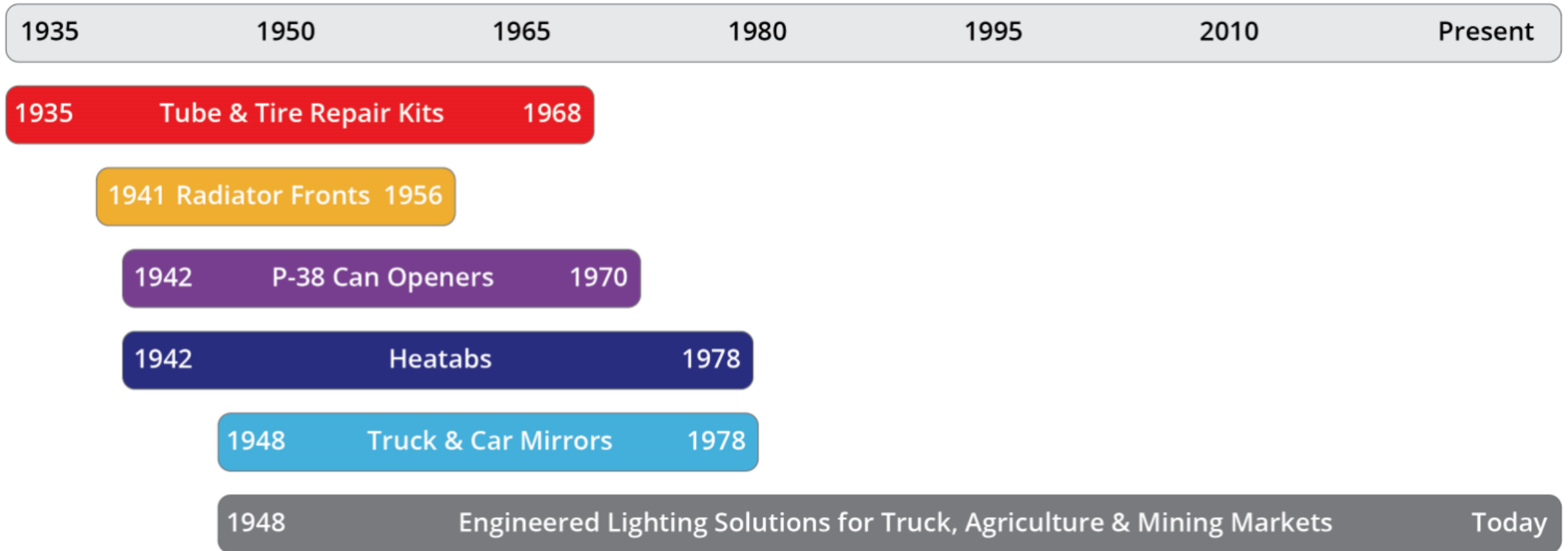


The Intersection of Science + Design

# Our History

- Today, J.W. Speaker Corporation is still family owned and ran business
- Lead by Tim and Jamie Speaker with their management team
- Development of world leading LED forward lighting for key OEM worldwide
- Growing into the aftermarket with the latest LED performance technology
- Expanding into different markets around the global as a key brand
- Work closely with our OEM and aftermarket distributor to develop the world first LED headlamps, work lamps and safety products
- To meet all our customers need and wants with latest technology in LED lighting

# Our History





***Design Manufacturing Innovative Products for Over 80 years***



# P&H 2800 Electric Rope Shovel LED Scene Illumination

Safety Through Innovative Lighting Product

By J.W. Speaker

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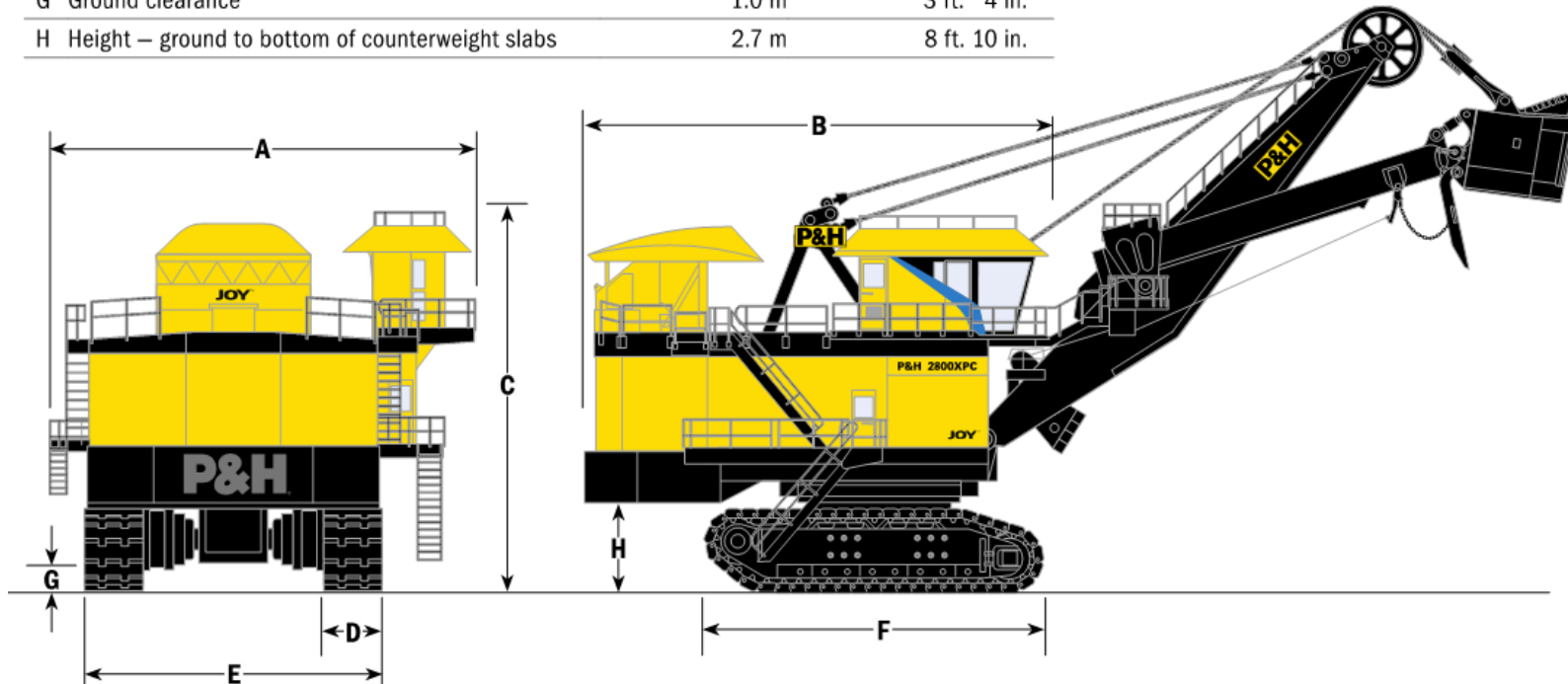


# P & H 2800



## Overall dimensions

A Width	13.1 m	43 ft. 0 in.
B Length	14.8 m	48 ft. 8 in.
C Height over gantry	12.4 m	40 ft. 9 in.
D Width of crawler shoes	1422 mm 1829 mm	56 in. 72 in.
E Width of crawlers (56")	9.0 m	29 ft. 8 in.
F Length of crawlers	10.8 m	35 ft. 5 in.
G Ground clearance	1.0 m	3 ft. 4 in.
H Height – ground to bottom of counterweight slabs	2.7 m	8 ft. 10 in.





Front View:

① Model 623 Wide Flood

② Model 623 Medium Flood

This combination will give full illumination for front at the face





Right Side View:

① Model 623 Wide Flood

For illumination on Driver Cab  
Side

Perfect illumination for Drive  
Cab side



Left Side View:

① Model 623 Wide Flood

For illumination on Non Driver  
Cab Side





Rear Side View:

① Model 623 Wide Flood

For illumination on Rear



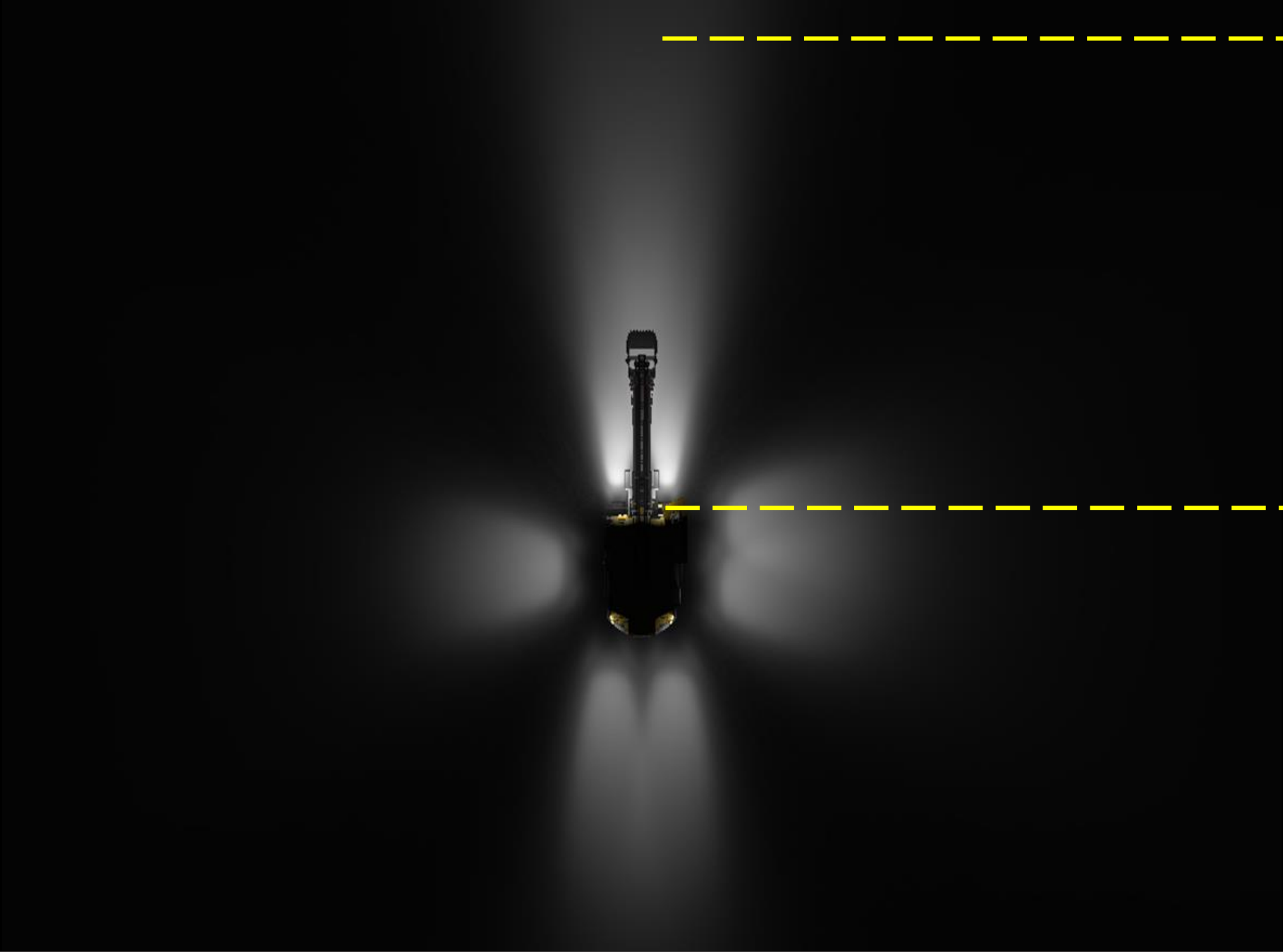


# V.R. Mapping For P&H 2800

# P&H 2800 VR Mapping

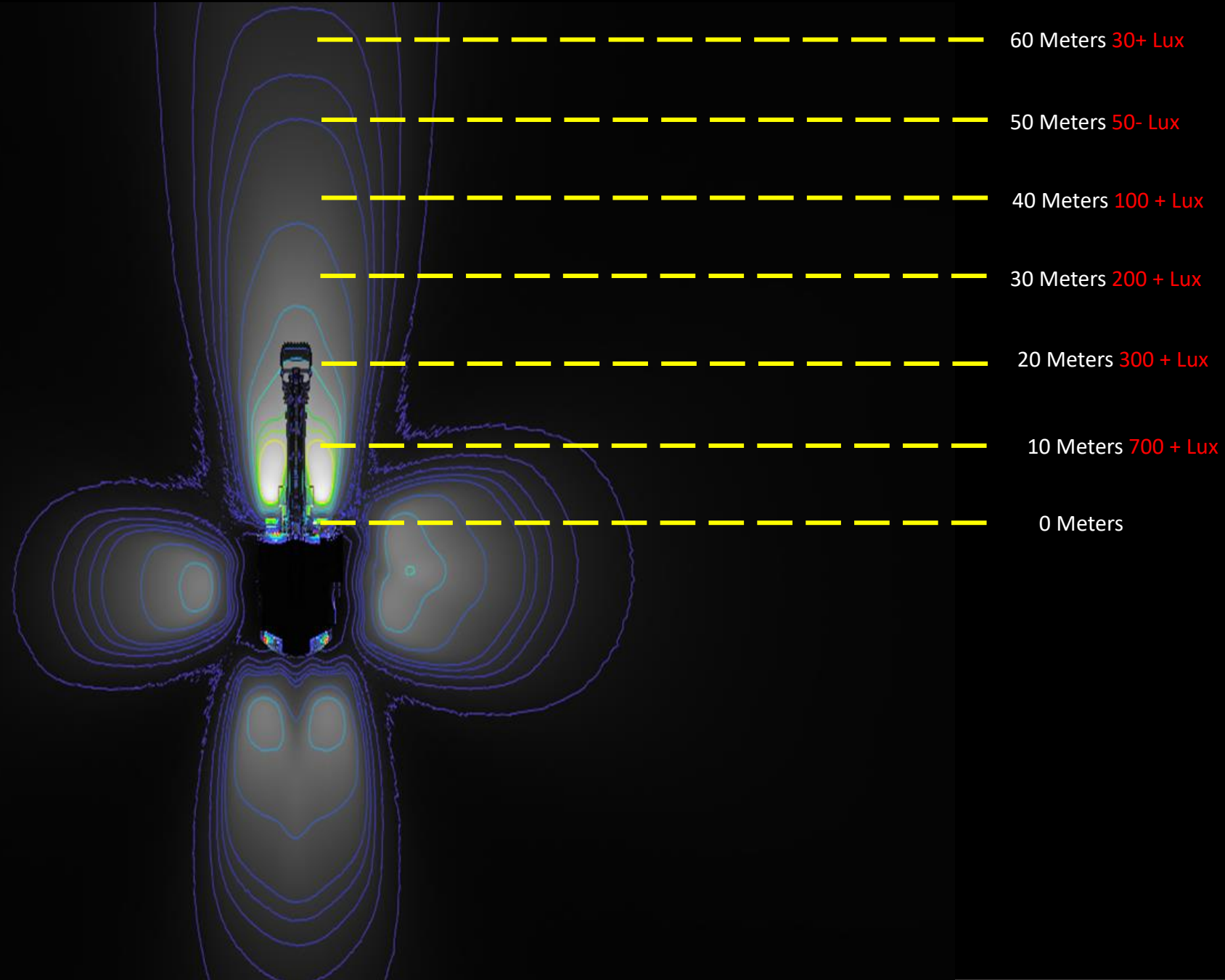
- All OE standard lighting replace with Model 623 in the same position
- Model 623 IP67 and IP69K 16-60VDC, weight 8.16kg
- Raw Lumen 40,000 and Effective 20,000 Lumen
- Colour Temperature 5700K (Kelvin), Daylight at High Noon 5500k
- AC/DC Converter Box 24V 240W 110-277V AC IP69K with plug and play cable



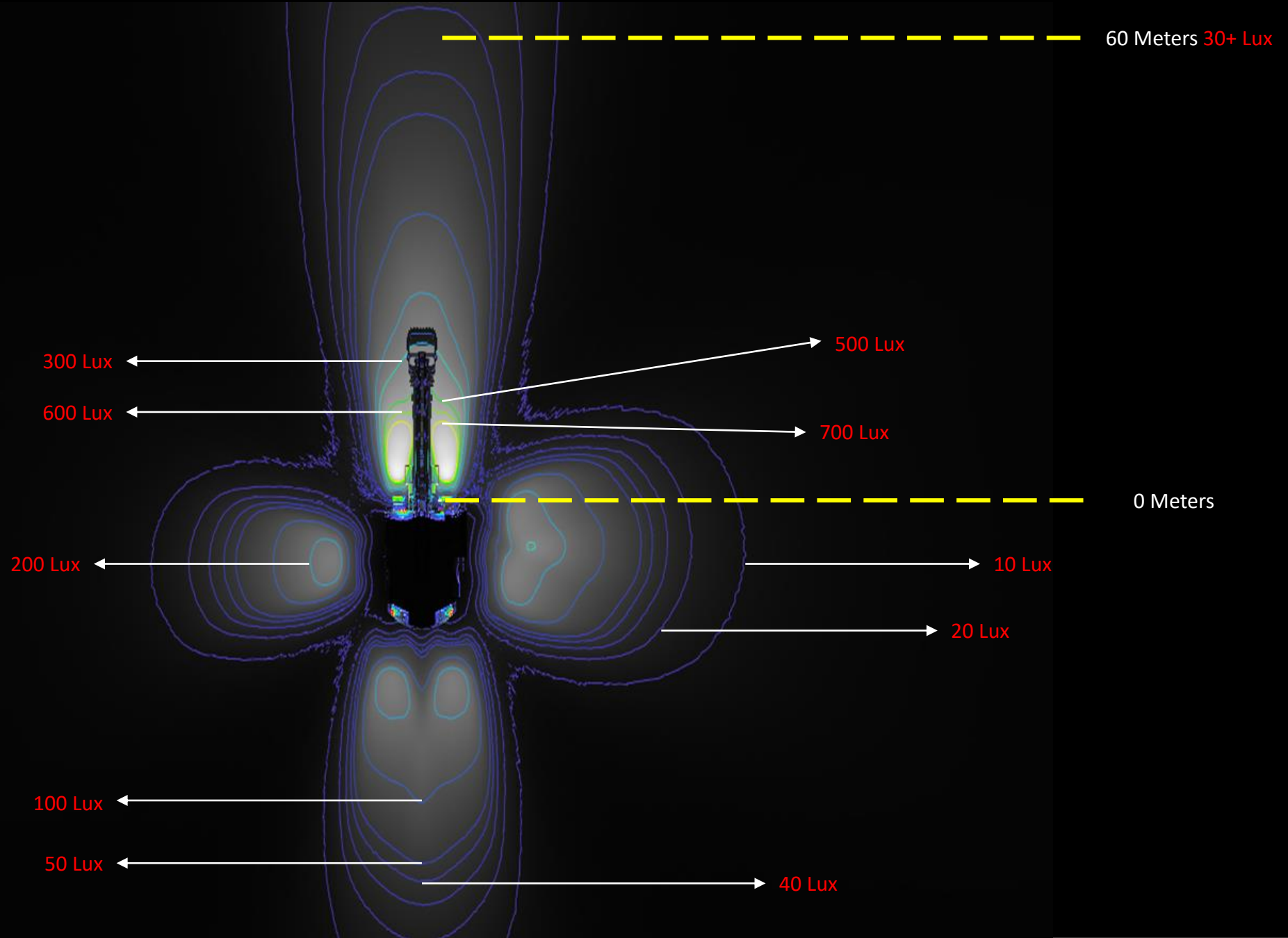


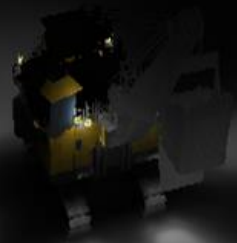
60 Meters **30+ Lux**

0 Meters



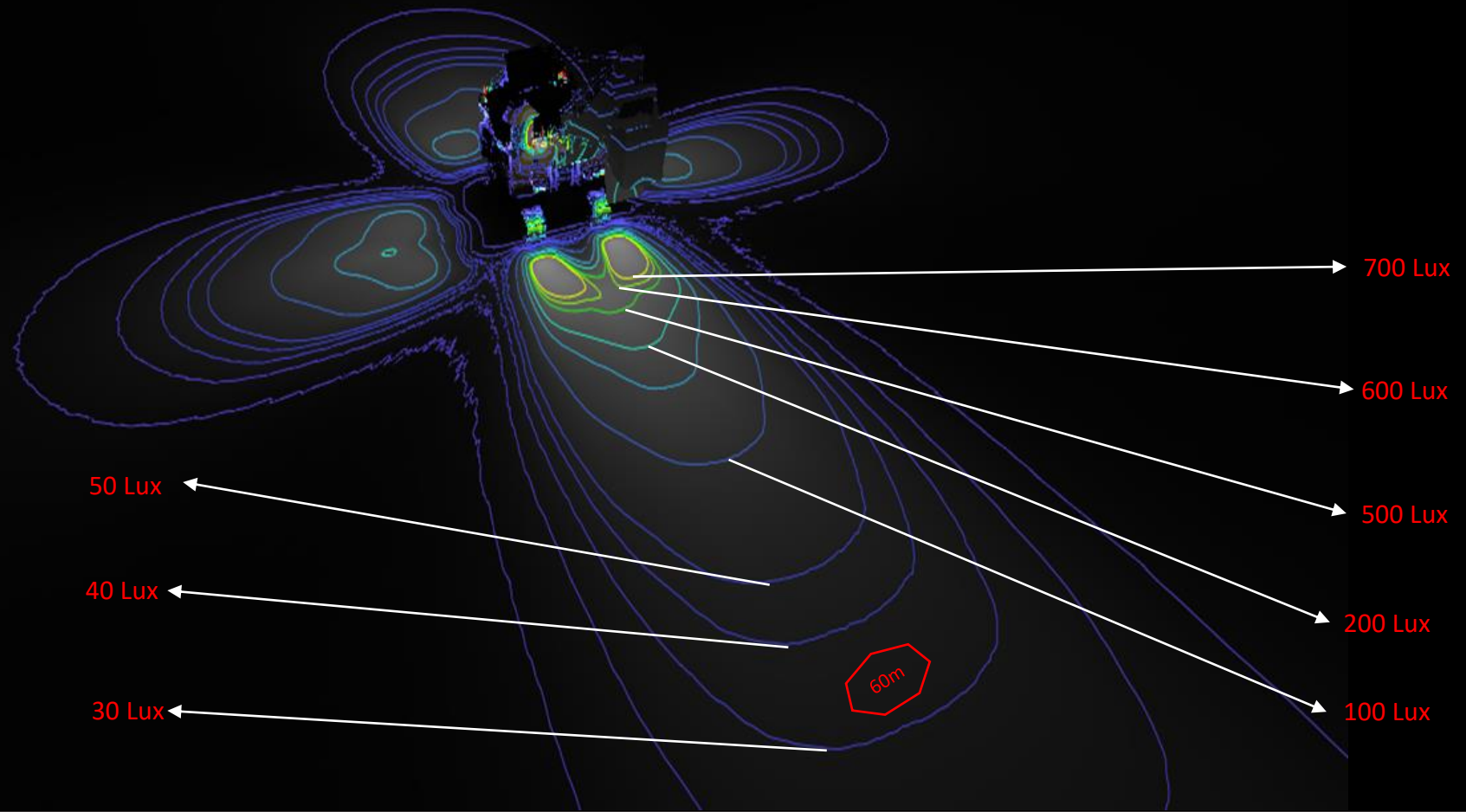
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# P&H 2800 Product Use



## PRODUCT INFORMATION

Description	16-60V LED Work
Height	216.41 mm / 8.52 in
Width	498.60 mm / 19.63 in
Depth	88.90 mm / 3.5 in
Shape	Rectangular
Outer Lens Material	Glass
Outer Lens Color	Clear
Housing Material	Die-Cast Aluminum
Housing Color	Black
Mounting Type	Universal Pedestal Mount
Minimum Operating Temperature	-40 °C / -40 °F
Maximum Operating Temperature	65 °C / 149 °F
Product Weight	18.00 lbs / 8.16 kgs
Shipping Weight	19.63 lbs / 8.9 kgs
Additional Information	Wire Harness: SJ000W 6m Harness

## ELECTRICAL SPECIFICATIONS

Input Voltage	24-48V DC
Operating Voltage	16-60V DC
Transient Spike Protection	150V peak @ 1 HZ-100 Pulses
Current Draw	10A @ 24V DC 5A @ 48V DC

## REGULATORY STANDARDS COMPLIANCE



Buy America Standards  
IEC IP67  
UL Recognized

Eco Friendly  
IEC IP69K

## PHOTOMETRIC SPECIFICATIONS

Raw Lumen Output	40,000
Effective Lumen Output	20,000
Nominal LED Color Temperature	5700 K



**Model 623**

10 Wide Flood 2 Medium Flood

# P&H 2800 Product Use

## PRODUCT INFORMATION

Description	24V 240W AC/DC Converter Box
Height	106.00 mm / 4.17 in
Width	281.00 mm / 11.06 in
Depth	318.72 mm / 12.55 in
Shape	Rectangular
Housing Material	Xenoy
Housing Color	Black
Connector or Wiring	Input & Output Wire Harness Ordered Separately
Product Weight	3.37 lbs / 1.53 kgs
Shipping Weight	3.87 lbs / 1.76 kgs
Additional Information	Input: 100-277 V AC 50/60Hz input Output: 24 V DC Output Current Max: 10 Amp UL recognized, Class 2 power supplies

## ELECTRICAL SPECIFICATIONS

Input Voltage 100-277V AC

## REGULATORY STANDARDS COMPLIANCE



Eco Friendly  
UL Recognized



IEC IP69K



AC Cable



Model 6406



DC Cable

12 AC Cable, 12 DC Cable, 12 AC/DC Converter

# Summary

- Correct Artefactual Lighting Systems colour temperature of 5700K, Daylight at High Noon is 5500k
- CRI of 90+ reproduce the colours of various objects as "realistically" or "naturally"
- Design for industrial application
- Model 623 LED Scene Lamp 5 year warranty
- Model 6406 Converter 1 year warranty
- Design and manufacture in USA





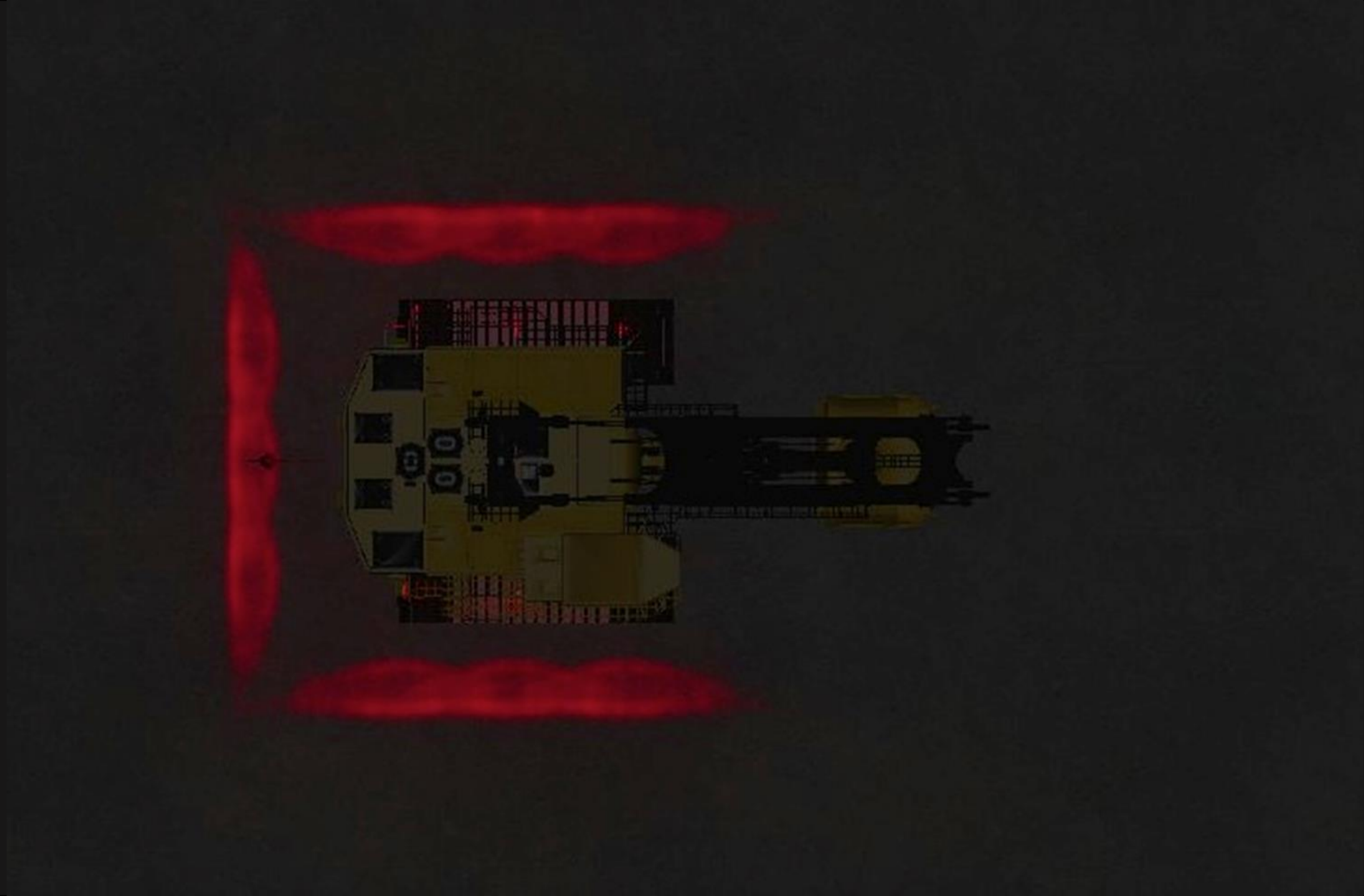
Safety Through Innovative Lighting Product

By J.W. Speaker

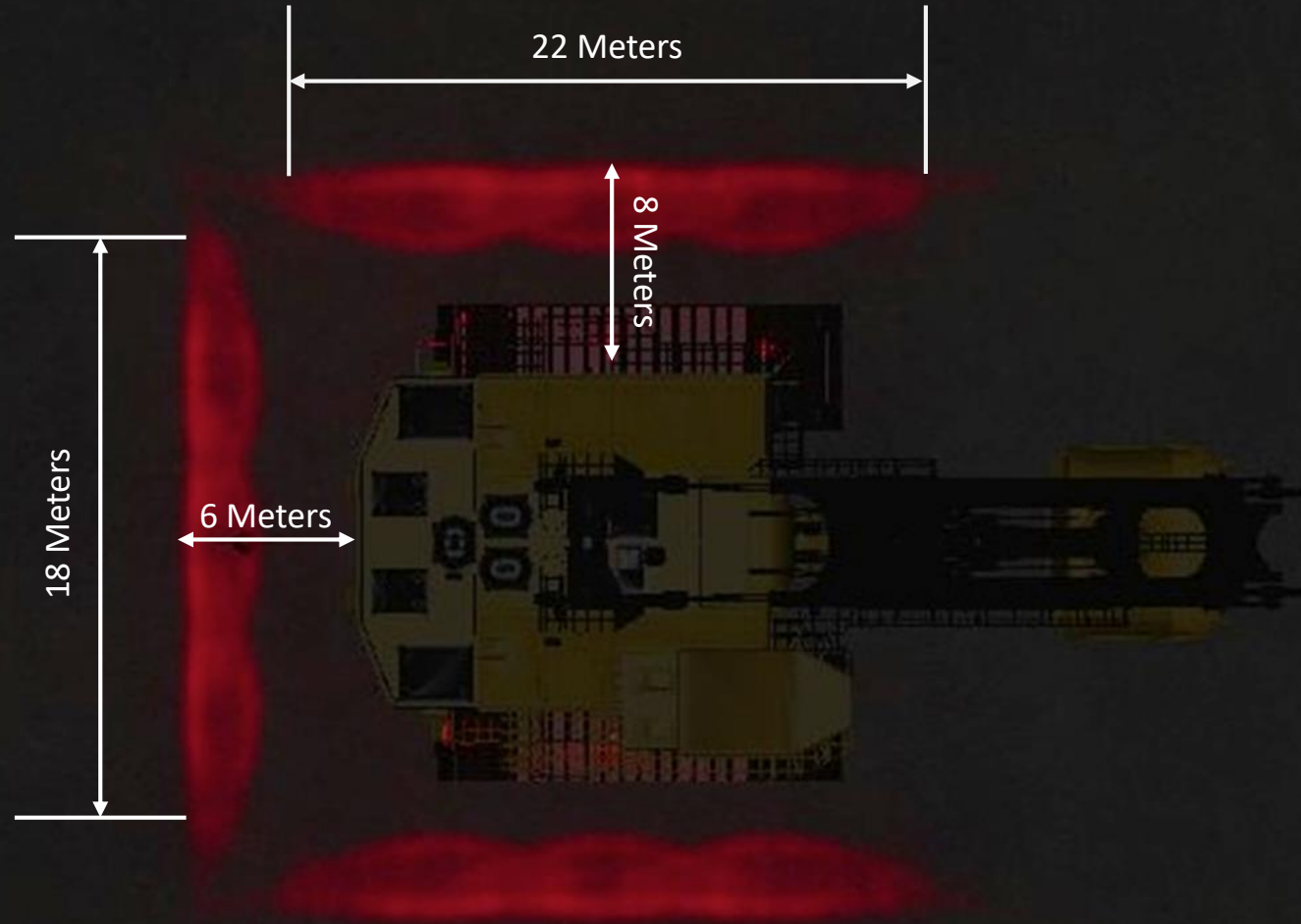
# P&H 2800 Electric Rope Shovel Red Zone

# P&H 2800 Red Zone

- 9 Model 527 LED Red No Go Zone Lamps
- Mounted at 8m to 8.5m high
- 3 Left and Right hand side fitted around upper deck under the hand rails.
- Set at 4m apart, aimed 50° down
- 3 at rear fitted at the top spaced
- Set at 4m apart, aimed 55° down



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# VR Large Shovel with Model 623 LED Scene Lighting and Model 527 Red Zone



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# P&H 2800 Product Use

PRODUCT INFORMATION

Description	12-24V LED Red Zone Light
Height	123.70 mm / 4.87 in
Width	258.57 mm / 10.18 in
Depth	102.11 mm / 4.02 in
Shape	Rectangle
Outer Lens Material	Glass
Outer Lens Color	Clear
Housing Material	Xenoy
Housing Color	Black
Mounting Hardware Description	(x2) M8-1.25 Mounting Bolt
Mounting Type	Universal Pedestal Mount
Minimum Operating Temperature	-40 °C / -40 °F
Maximum Operating Temperature	65 °C / 149 °F
Connector or Wiring	Integrated 2-Pin Deutsch Weatherproof Socket (DT04-2P)
Mating Connector	Integrated 2-Pin Deutsch Weatherproof Plug (DT06-2S)
Product Weight	2.60 lbs / 1.18 kgs
Shipping Weight	5.70 lbs / 2.59 kgs
Additional Information	The dominant wavelength is about 615nm.

ELECTRICAL SPECIFICATIONS

Input Voltage	12-24V DC
Operating Voltage	10-32V DC
Transient Spike Protection	150V peak @ 1 HZ-100 Pulses
Red Wire	Positive
Black Wire	Negative
Current Draw	1.6A @ 12V DC 0.85A @ 24V DC



Model 527  
9 Red Zone

REGULATORY STANDARDS COMPLIANCE



Buy America Standards  
IEC IP69K

Eco Friendly

# P&H 2800 Product Use



## PRODUCT INFORMATION

Description	24V 35W AC/DC Converter Box
Height	78.00 mm / 3.07 in
Width	200.00 mm / 7.87 in
Depth	236.00 mm / 9.29 in
Shape	Rectangular
Housing Material	Xenoy
Housing Color	Black
Maximum Operating Temperature	50 °C / 122 °F
Connector or Wiring	Input & Output Wire Harness Ordered Separately
Product Weight	1.12 lbs / 0.51 kgs
Shipping Weight	1.62 lbs / 0.73 kgs
Additional Information	Input: 100-240 V AC 50/60Hz Input Output: 24 V DC Output Current Max: 1.5 Amp UL recognized, Class 2 power supplies

## ELECTRICAL SPECIFICATIONS

**Input Voltage** 100-240V AC

## REGULATORY STANDARDS COMPLIANCE



Eco Friendly

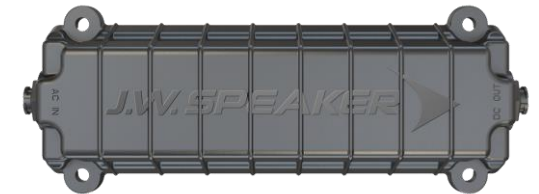


UL Recognized

IEC IP69K



AC Cable



Model 6404



AC Cable

9 AC Cable, 9 DC Cable, 9 AC/DC Converter



# Large Shovel with LED Scene Lighting and Red Zone in Action



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# Summary

- Identify danger area around shovel with Red Warning Zone at night
- Increase night time production with easy identify where to load
- Easy fitment around walkway or other trouble-free location
- Only require 9 Lamps
- Design for industrial application
- Model 527 LED Red Zone 5 year warranty
- Model 6404 Converter 1 year warranty
- Design and manufacture in USA

# Commitment

- J.W. Speaker are fully commit to the Safety in all mining equipment from the correct Artefactual Lighting Systems and Red Zone area
- To work direct with the OEM and Mine site to design and develop product to suit the industrial market
- All product are available worldwide through key distributions who comprehend the Industrial Market to meet all demand

*Thank you*

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