WHY WORK LAMPS?

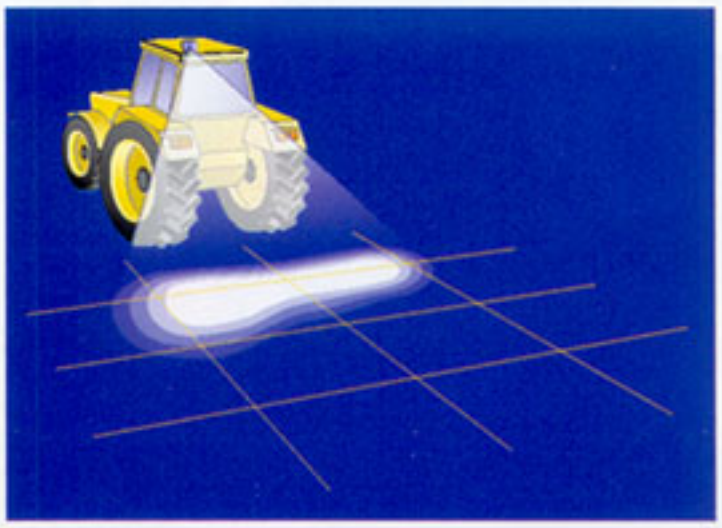
TECHNICAL DESCRIPTION

Light sources have evolved over time from the primitive wood fire, the oil lamp, the candle, and the petroleum and gas lamp to our modern electrical light sources, bulbs, and gas discharge bulbs. Diverse types of lamps, which have been developed for this purpose, have thereby been created; the dipped-beam lamp for driving in the dark, main beam and fog lamps for various applications.

The work lamp has been designed especially for working in conditions of low light or in the dark.

The normal mounting height of dipped beam, main beam, and fog lamps parallel to the road surface, guarantees optimum illumination.

The light distribution of various lamp types in the case of a typical work lamp mounting height 8.2 ft.



Dipped Beam

Main Beam

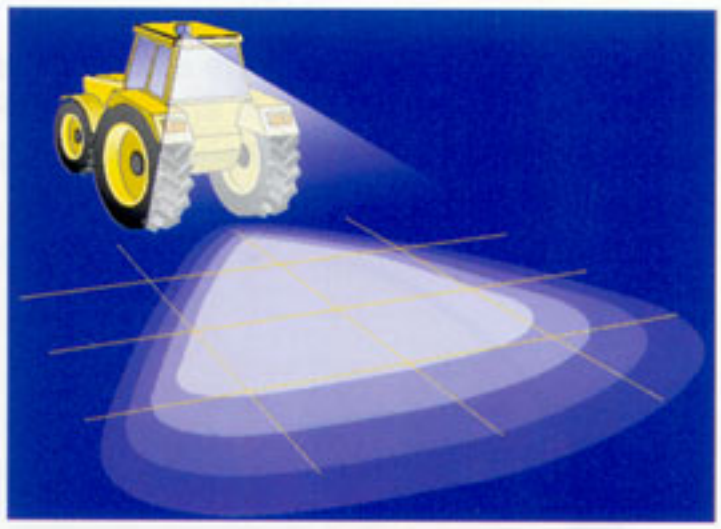
Fog Lamp

Work Lamp

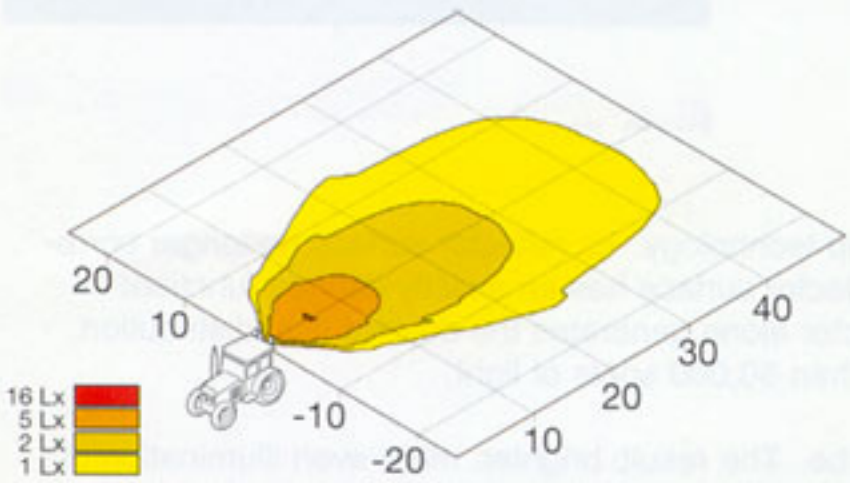
WORK LAMPS FOR SAFETY!

TECHNICAL DESCRIPTION

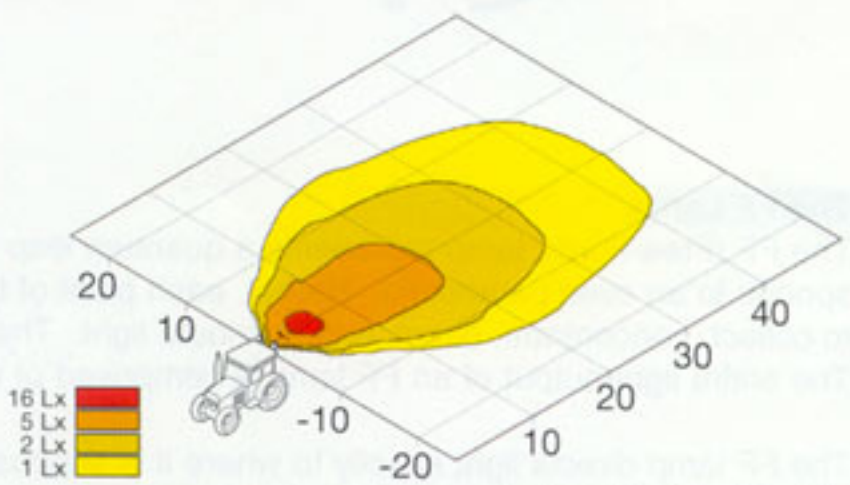
Working during dusk or at night is particularly demanding. The eye only achieves one-twentieth of its normal vision. As a result of increased concentration, the eyes become tired more quickly and see even less. For increased safety and comfort, Hella has developed work lamps which can master any situation. Work lamps cast a beam of light at an angle to the work surface. This means that the mounting height and angle of inclination affect the illumination of the work area.



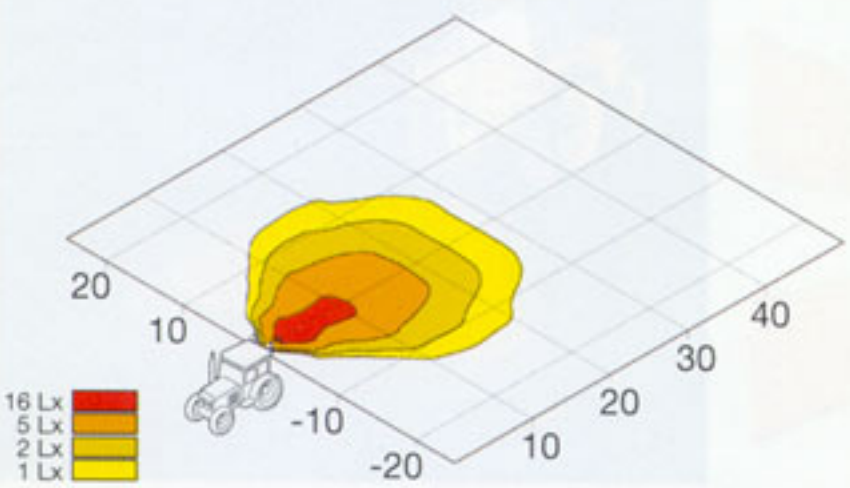
Light distribution with different mounting angles using the Ultra Beam FF as an example: Mounting height 8.2 ft.



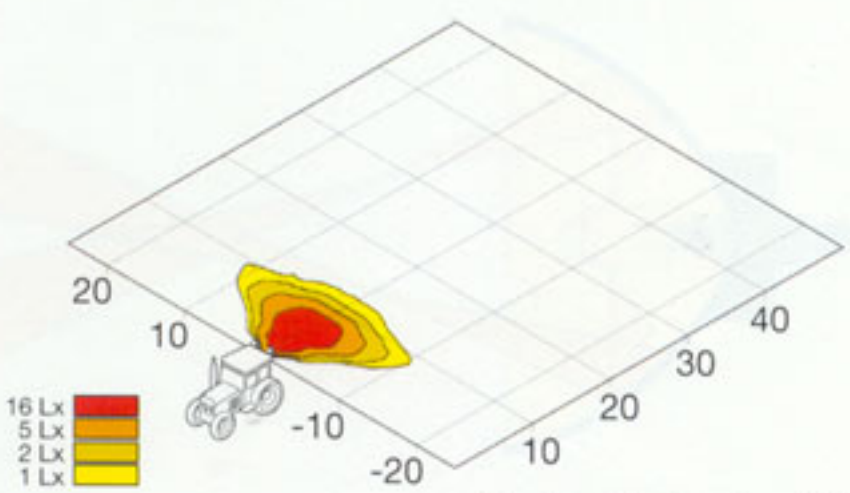
Angle of inclination 5°
Mounting height 8.2 ft.



Angle of inclination 10°
Mounting height 8.2 ft.



Angle of inclination 15°
Mounting height 8.2 ft.



Angle of inclination 25°
Mounting height 8.2 ft.

HELLA WORK LAMP SYSTEMS

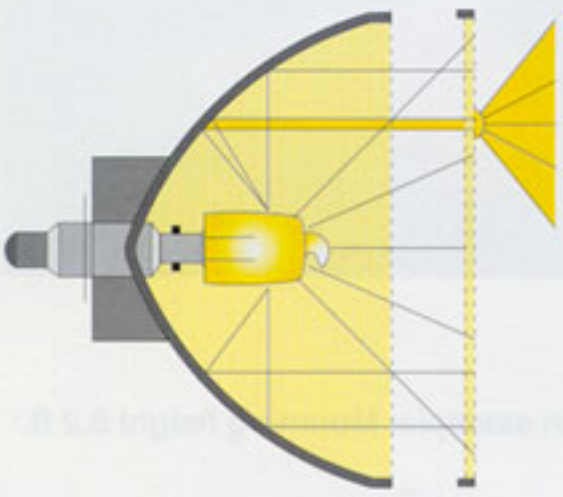
TECHNICAL DESCRIPTION

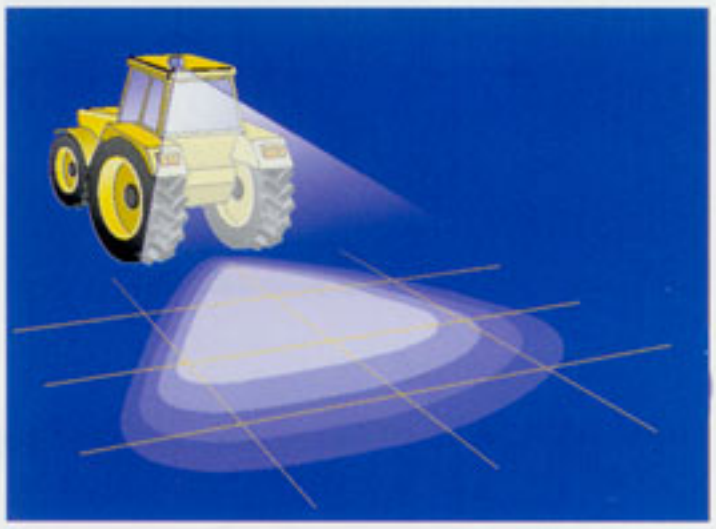
From the classic paraboloid to the modern xenon technology, there's a Hella work lamp for every requirement.

The Paraboloid Lamp

The paraboloid lamp is the classic among the lamp systems in use today; it uses a parabolic reflector. The light source is located at the focal point of the reflector. The reflector captures the light, bundles it and radiates it. The lens ensures that the light is distributed as required, directing it to pre-specified areas in front of the lamp.

Effective paraboloid lamps have a large reflector in order to capture a great deal of light. The lens must be as vertical as possible in order to ensure good light refraction. Reflectors with long focal lengths provide good long-range illumination; those with short focal lengths collect more light and provide good short-range illumination.

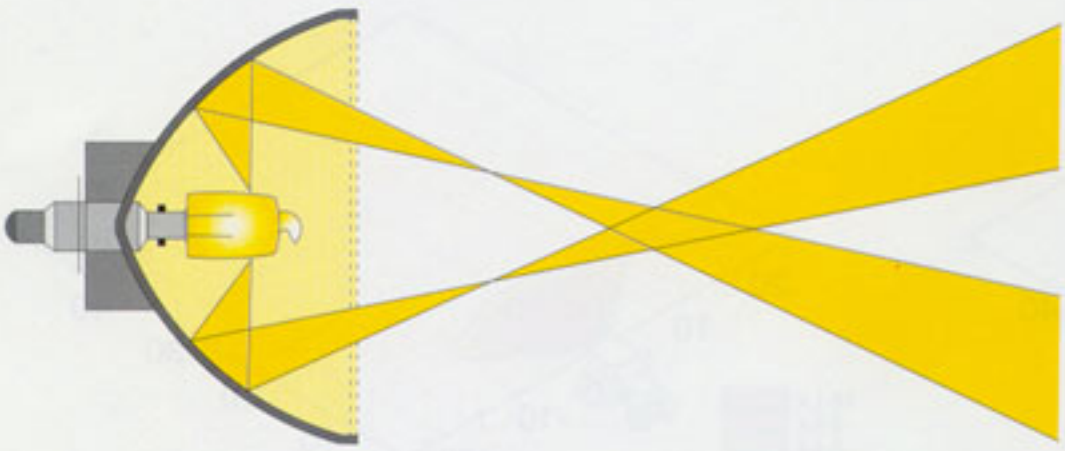


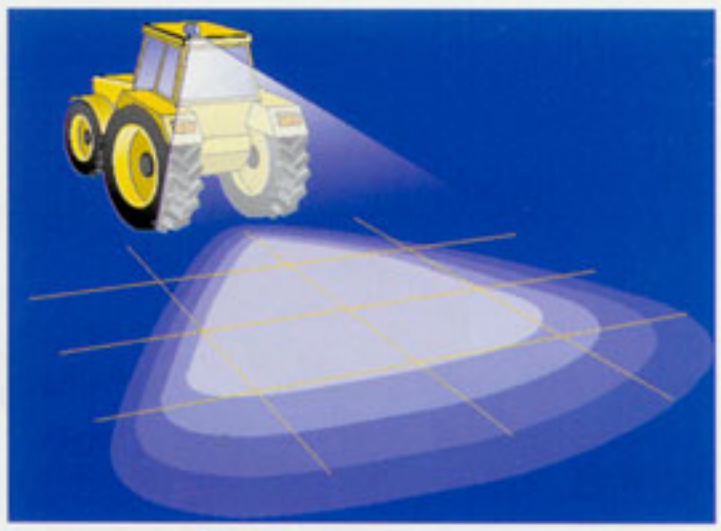


The FF Lamp

The FF (Free-Form) lamp represents a quantum leap in lamp technology. Its reflector surface no longer corresponds to an even paraboloid. Rather, each point of the reflector surface has an exactly defined function: to collect, concentrate, direct, and distribute light. The reflector alone generates the desired light distribution. The entire light output of an FF lamp is comprised of more than 50,000 spots of light.

The FF lamp directs light exactly to where it is supposed to be. The result: brighter, more even illumination of the work area, greater range, hardly any scatter loss or dazzling. In order to calculate the reflector's surface of an FF lamp, extremely powerful electronic computers and high-precision tools and production machines are required. Fractions of a thousandth of a millimeter alter the effectiveness of the entire system.





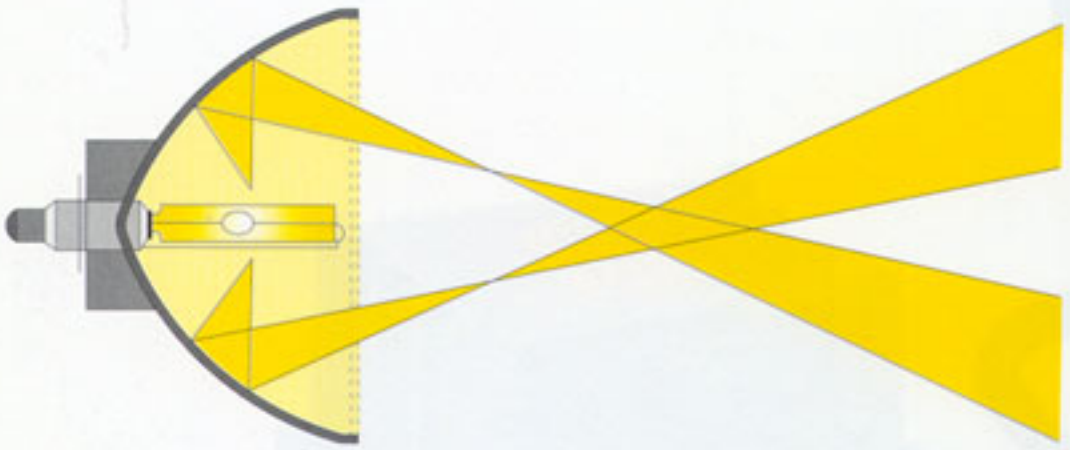
XENON TECHNOLOGY

THE NEW STANDARD FOR WORK LAMPS

HELLA

TECHNICAL DESCRIPTION

Xenon technology marks today's pinnacle in lamp system development. The advantage of xenon lamps in comparison with halogen lamps is their light flux, which is 2.5 times higher with 35% lower energy consumption. This leads to very high luminance and therefore brighter and wider illumination of the work area. The color of the light is similar to that of daylight.



What actually is xenon light?

Instead of a coiled filament, a light arc is the light source in xenon lamps. The bulb is filled with xenon gas and metal salts. In order to ignite the xenon bulb, an extremely high voltage of approximately 20,000 volts is required. This is provided by an electronic ballast: 12 or 24 volt direct current is transformed into 20,000 volt alternating current. At temperatures of around 9032°F, a light arc is created. With power consumption of a mere 35 watts, xenon generates 2.5 times the light flux of a halogen bulb with 35W output. The ignition electronics are completely integrated into the control unit. The control unit almost eliminates voltage fluctuations in the vehicle electrical system, as the electronics operate the xenon bulb at constant output.

HALOGEN WORK LAMPS

DOUBLE BEAM FF SERIES

90600

90601 and 90602

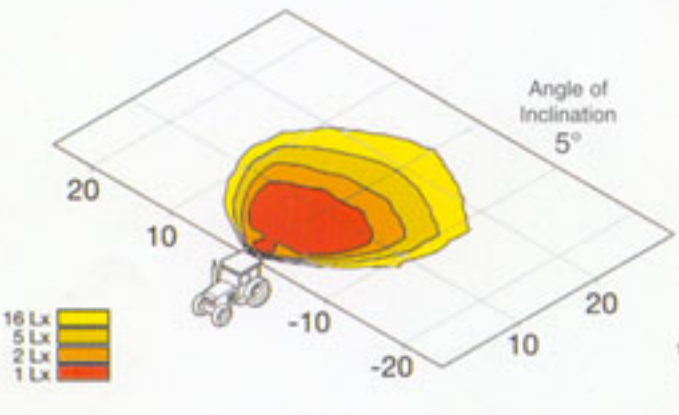
Part No.

AS115FF **FF**

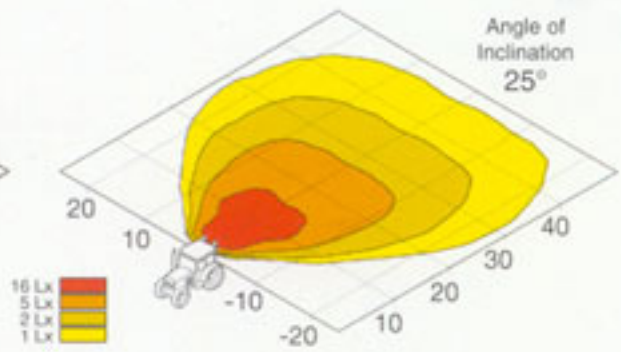
90600	Boxed, 12V
90600D	Display, 12V
90600B	Bulk, 12V
90700	Boxed, 24V
90601	Boxed, 12V
90601D	Display, 12V
90601B	Bulk, 12V
90701	Boxed, 24V
90602	Boxed, 12V
90602D	Display, 12V
90602B	Bulk, 12V
90702	Boxed, 24V

Description: Double reflector made of high-gloss vapor-plated diecast aluminum. Shock-resistant black molded housing. Glass lens. Prewired.

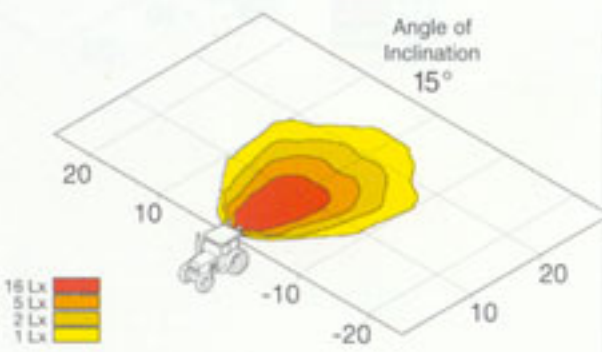
Mounting: Single bolt with tilt adjustment



Part Number 90600



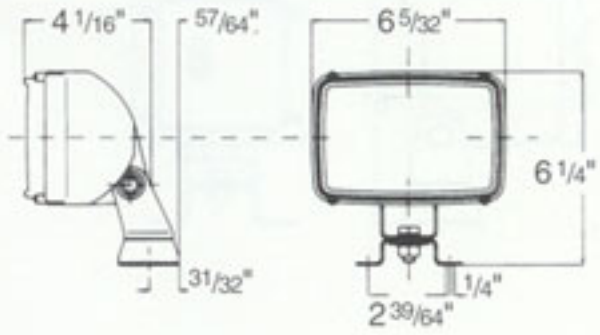
Part Number 90601



Part Number 90602

Spare Parts and Accessories

Part No.		
	79600	Lamp Unit for 90600, 90700
	79601	Lamp Unit for 90601, 90701
	79602	Lamp Unit for 90602, 90702
	78135	Bulb H3, 12V 55W
	78145	Bulb H3, 24V 70W

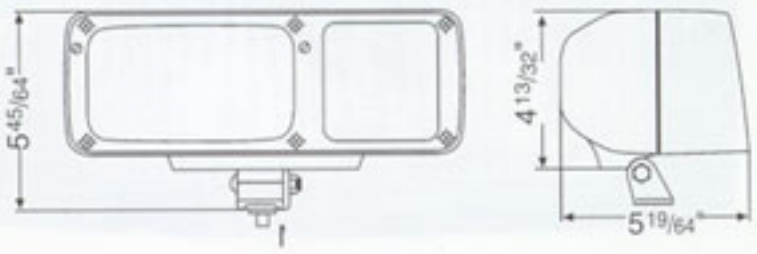


HALOGEN WORK LAMPS

FF SERIES

Spare Parts and Accessories

Part No. 78135 Bulb H3, 12V 55W
78145 Bulb H3, 24V 70W



Part No.

Multi Beam FF

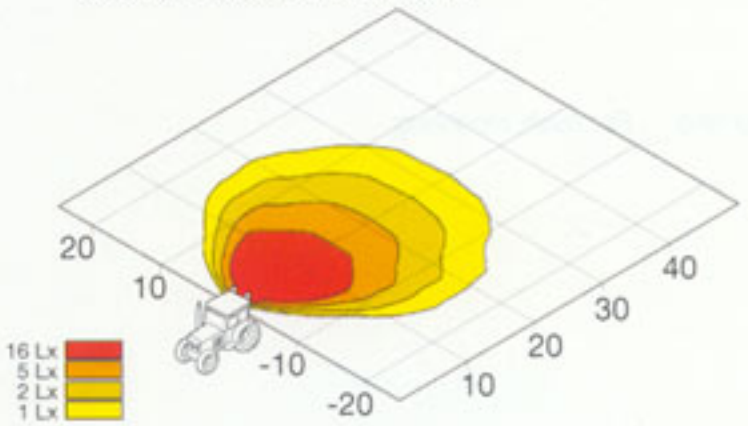
FF

90665	Boxed with handle LH, 12V
90667	Boxed with handle RH, 12V
90665B	Bulk with handle LH, 12V
90667B	Bulk with handle RH, 12V
90668	Boxed, without handle LH, 12V
90669	Boxed, without handle RH, 12V
90668B	Bulk, without handle LH, 12V
90669B	Bulk, without handle RH, 12V

NEW

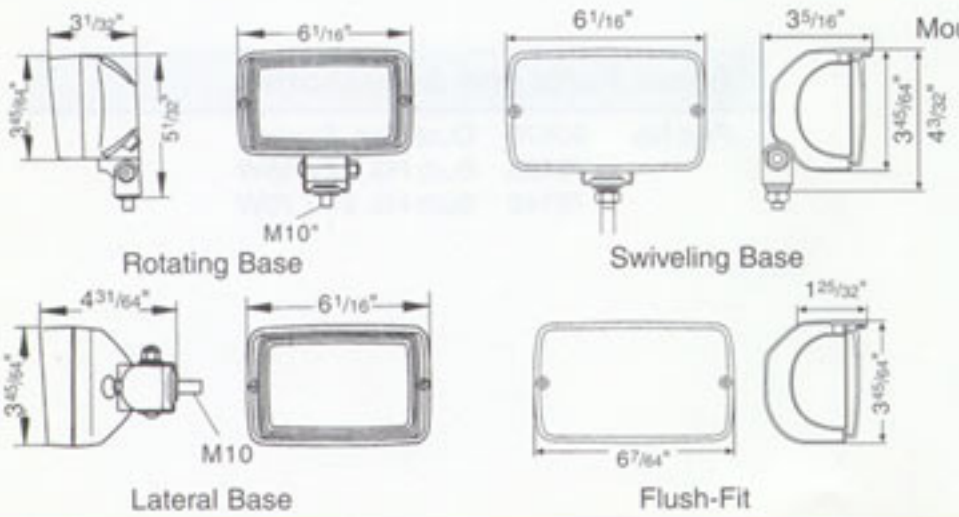
Description: The Multi Beam FF is a combination of two high perfomance work lamps. It puts the luminous intensity of the Ultra Beam FF on the ground and lights up objects like the Double Beam FF. Shock-roof, black plastic body projects over the edge of the lens providing extra protection.

Mounting: Central bolt and an angled hoop for four-point fastening. It can be rotated and swiveled.



Spare Parts and Accessories

Part No. 78135 Bulb H3, 12V 55W
78145 Bulb H3, 24V 70W



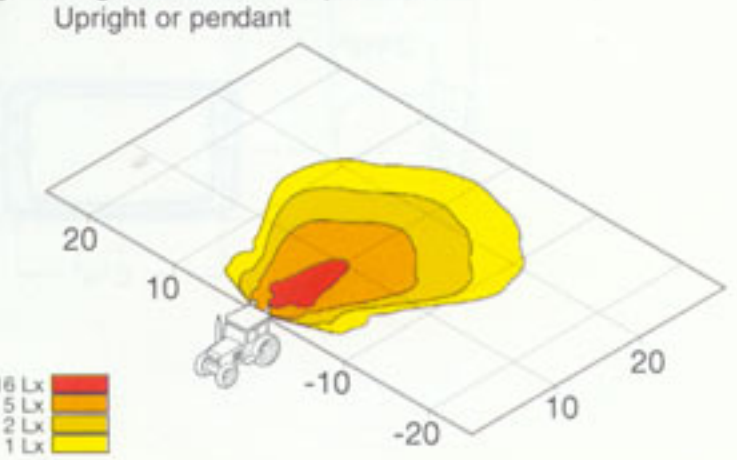
Model Picador

FF

90645	Boxed, Rotating Base, 12V
90645D	Display, Rotating Base, 12V
90645B	Bulk, Rotating Base, 12V
87146	Boxed, Rotating Base, White Housing, 12V
90655	Boxed, Swiveling Base, 12V
90655D	Display, Swiveling Base, 12V
90655B	Bulk, Swiveling Base, 12V
90635B	Bulk, Lateral Base RH, 12V
90636B	Bulk, Lateral Base LH, 12V
90637	Boxed, Flush Fit, 12V
90637D	Display, Flush Fit, 12V
90637B	Bulk, Flush Fit, 12V

Description: Shock-resistant black molded housing. Glass lens. Prewired.

Mounting: Single bolt with tilt adjustment
Upright or pendant



Part No.

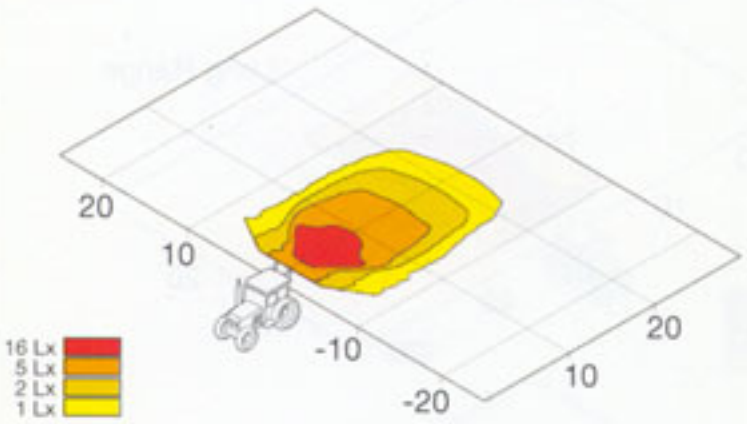
Flush Mount FF

FF

87164 Boxed, Black Housing 12V
87168 Boxed, White Housing 12V

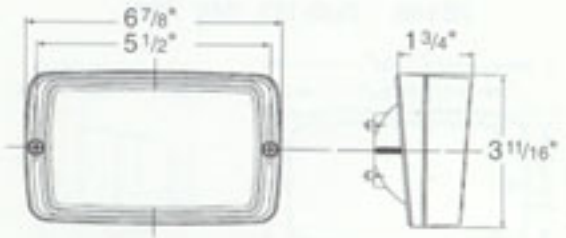
Description: Glass lens, fully grommeted.

Mounting: For flush mounting



Spare Parts and Accessories

Part No.		
	79561	Lamp Unit
	90670	Rubber Boot
	79559	Lens Retaining Ring
	78135	Bulb H3, 12V 55W
	78145	Bulb H3, 24V 70W



AS200FF

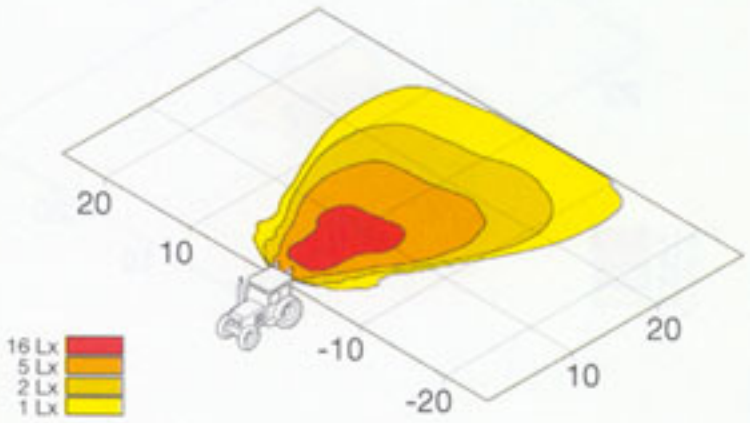
FF

90628 Boxed, 12V
90628B Bulk, 12V

90629 Boxed, HD w/vibration damper
90629B Bulk, HD w/vibration damper

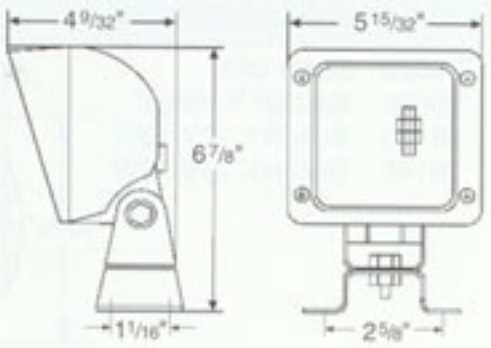
Description: Shock-resistant plastic housing.

Mounting: Upright or pendant mounting



Spare Parts and Accessories

Part No.		
	90699	Bracket "Omega"
	78135	Bulb H3, 12V 55W
	78145	Bulb H3, 24V 70W



HALOGEN WORK LAMPS

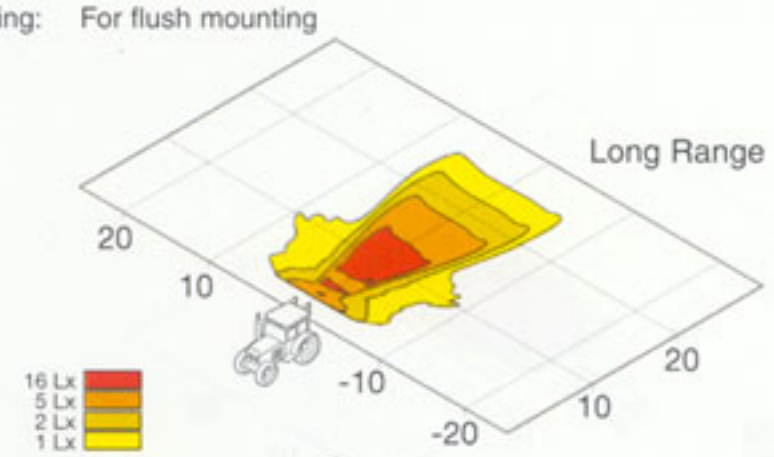
Part No.

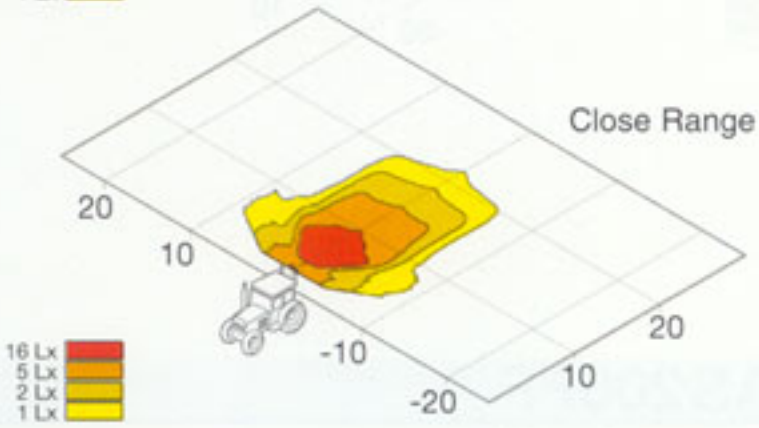
Modular

87167	Boxed, Flush Mount, 12V
87167B	Bulk, Flush Mount, 12V

Description: Black, Shock-resistant supporting frame with pan-headed tapping screws for attachment. Glass lens

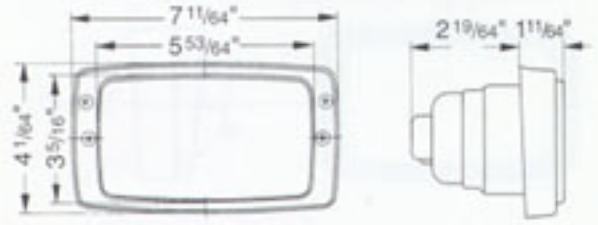
Mounting: For flush mounting





Spare Parts and Accessories

Part No.		
	78135	Bulb H3, 12V 55W
	78145	Bulb H3, 24V 70W

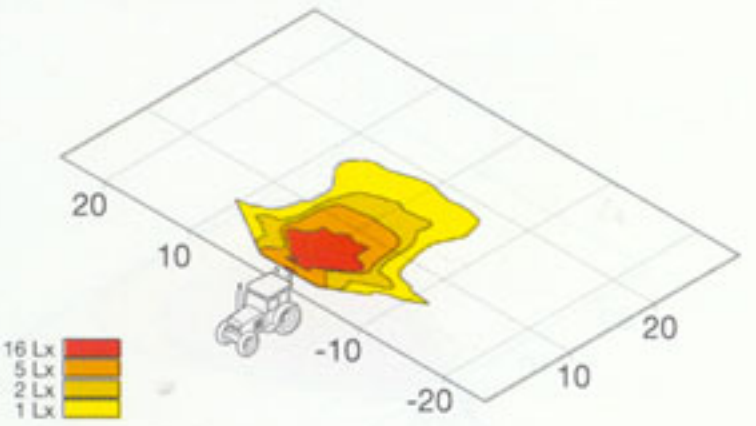


Model Matador

87161	Boxed with switch, 12V
87163	Boxed with protective grille & switch, 12V
87163F	Boxed with switch, 24V

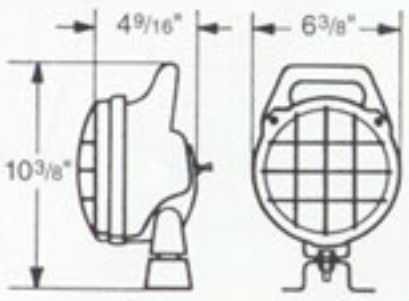
Description: Black molded housing and handle. Glass lens. Prewired. With on/off switch and protective grille.

Mounting: Single bolt with tilt adjustment



Spare Parts and Accessories

Part No.		
	79520	Lamp Unit
	90699	Bracket "Omega"
	78135	Bulb H3, 12V 55W
	78145	Bulb H3, 24V 70W



HALOGEN WORK LAMPS

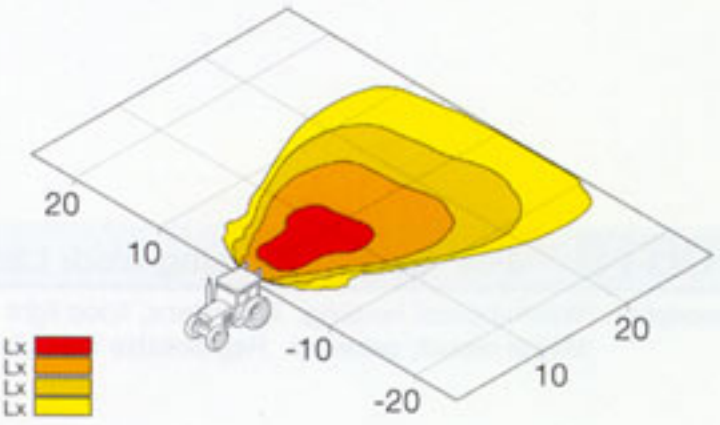
Part No.

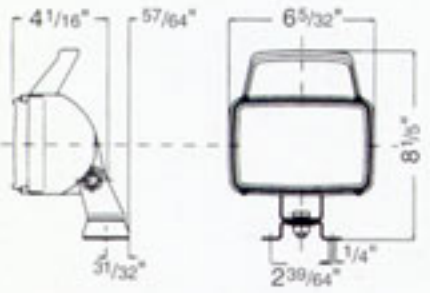
AS115

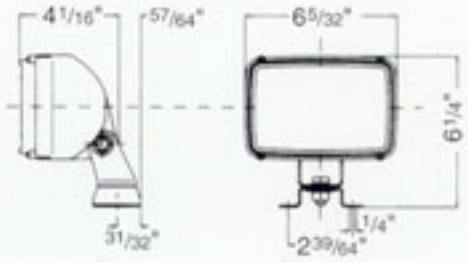
90625	Boxed with handle, 12V
90625D	Display with handle, 12V
90625B	Bulk with handle, 12V
90626	Boxed without handle, 12V
90626D	Display without handle, 12V
90626B	Bulk without handle, 12V

Description: Shock-resistant, black molded housing. Plastic lens. Prewired.

Mounting: For flat or slightly curved surfaces







Spare Parts and Accessories

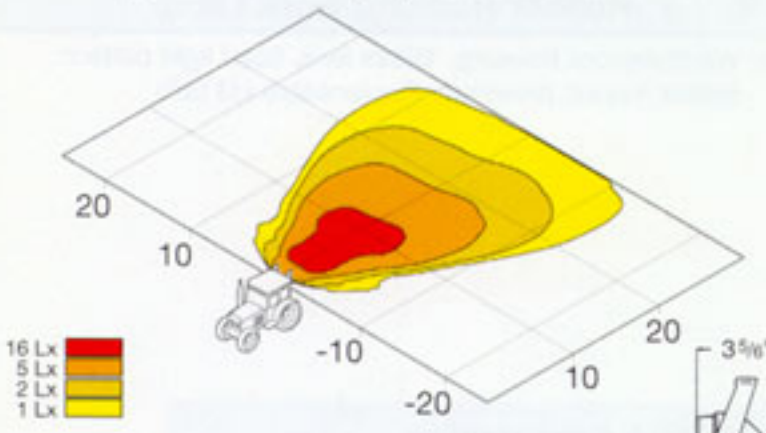
Part No.		
	79010	Lamp Unit
	80530	Switch
	90699	Bracket "Omega"
	78135	Bulb H3, 12V 55W
	78145	Bulb H3, 24V 70W

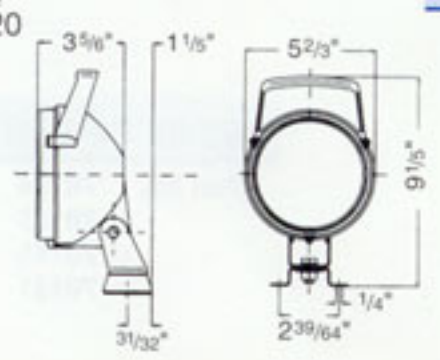
AS092

90620B	Bulk, without grille & switch, 12V
90621B	Bulk, with grille & switch, 12V

Description: Shock-resistant, black molded housing and handle. Plastic lens. Prewired.

Mounting: For flat or slightly curved surfaces





Spare Parts and Accessories

Part No.		
	79000	Lamp Unit
	80530	Switch
	90699	Bracket "Omega"
	78135	Bulb H3, 12V 55W

HALOGEN WORK LAMPS

HELLA RUBBER HOUSING WORK LAMPS

4 ¾" Round x 3" Deep

Part No.

90609 4 ¾" Rubber Housing Work Lamp

Description: Recessed housing reduces glare. Weatherproof housing. Glass lens, flood light pattern. Swivel mount, prewired. Replaceable H3 bulb

4 ¾" Round x 2 ¾" Deep

90610 4 ¾" Rubber Housing Work Lamp

Description: Weatherproof housing. Glass lens, flood light pattern Swivel mount, prewired. Replaceable H3 bulb

6" Round x 4" Deep

90611 6" Rubber Housing Work Lamp

Description: Weatherproof housing. Glass lens, flood light pattern. Swivel mount, prewired. Replaceable H3 bulb

Spare Parts and Accessories

Part No.	78134	Bulb, H3 12V 55W Heavy Duty
	78135	Bulb, H3 12V 55W
	78145	Bulb, H3 24V 70W
	78131	Bulb, H3 12V 35W