



Wolf Safety Lamp Company
Product manufactured from 2015

Model WF-300/*L*/*** (18-54V) from serial number 22717. (Also serial numbers 22591 to 22690)
 Model WF-300/*H*/*** (100-254V) from 8745 (Except serial numbers 10302 to 10401)
(5200 lumens models)

Operation and Maintenance Instructions
 Please Retain – Read Before Use

EU Declaration of Conformity

The Wolf WF-300 LED Floodlite meets all relevant provisions of the 2014/34/EU Explosive Atmospheres (ATEX Equipment) Directive by virtue of the issued EC Type Examination Certificate, demonstrating compliance with all relevant Harmonised Standards and Essential Health and Safety Requirements. The Wolf WF-300 LED Floodlite is a high performance lightweight portable floodlight. Constructed in marine grade aluminium, with a glass lens, the end user must check that these materials are suitable for the application the Floodlite will be used in. The Floodlite is group II, Category 2 equipment for use in Zone 1 & 2 potentially explosive gases, vapours & mists, where temperature class, T4 is permitted, and Group II, Category 2 equipment for use in zone 21 & 22 potentially explosive dusts*.

WF-300 Supply Voltage 100-254V AC

II 2GD Ex e mb IIC T4 Gb (-20°C <T_a<+50°C)
 Ex t IIIC T103°C Db IP66 ** (IP67 BSEN60529)
 The incoming mains cable should not exceed a temperature rise of 61°C above the ambient conditions; select suitable cable and cable gland.

WF-300 Supply Voltage 18-54V AC/DC

II 2GD Ex emb IIC T4 Gb (-20°C <T_a<+55°C)
 Ex t IIIC T87°C Db IP66 ** (IP67 BSEN60529)
 The incoming mains cable should not exceed a temperature rise of 34°C above the ambient conditions; select suitable cable and cable gland.

*Linkable Wolf WF-300 LED Floodlites fitted with Stahl 8575/14 couplers are Group II, Category 3 equipment for use in zone 22 potentially explosive non-conductive dusts only.

**Linkable Wolf WF-300 LED Floodlites fitted with Stahl 8575/14 couplers are IP54.

EC Type Examination Certificate: **SIRA10ATEX5117X**

Notified Body: Baseefa Ltd.
 Rockhead Business Park, Staden Lane,
 Buxton, SK17 9RZ, UK
 Notified body number: **1180**

Harmonised standards applied:- EN60079-0:2012, EN60079-7:2015, EN60079-18:2015, EN60079-31:2014.

Wolf LED Floodlites are manufactured in accordance with the 2014/30/EU EMC Directive to the following standards:- 18-54V versions- EN 55015:2013, EN 61547:2009. 100-254V versions:- EN 55022:2010, EN 61000-3-2:2006, EN 61000-3-3:2008, EN 61000-6-2:2005

Alex Jackson – Managing Director, Wolf Safety Lamp Company Ltd

PHOTOBIOLOGICAL SAFETY.

Floodlites are risk group 1 - No photobiological hazard under normal behavioural limitations



IMPORTANT

Read these instructions carefully before commencing to use the Floodlite and retain for future use.

- Check the rating label to ensure the Floodlite is suitable for the supply provided, ambient temperature present and IP rating.
- If the Floodlite is to be used in a hybrid mixture environment of mists or dusts with gases and/or vapours it must be suitably assessed for such use with the maximum surface temperature of the Floodlite.
- Floodlites should be used at their rated voltage during normal operation. The ATEX standards the equipment is certified to, permits a ±10% variance in the supply voltage for abnormal conditions, but it does not allow for the luminaire to be routinely used across this range. Running lamps outside of this voltage range will invalidate the ATEX approval and the product warranty, may result in a dangerous condition, and could cause the product to fail prematurely.
- It is the user's responsibility to ensure there is no potential difference between the earth supply to a Floodlite unit and the local earth in the work area. Where this is not possible the equipment should be securely earth bonded to metalwork in the immediate vicinity of where the Floodlite is being used. A flexible cable is recommended (6mm² minimum, no more than two metres long), connected to the earth grounding point on the Floodlite enclosure. Floodlites must be de-energised during connection or disconnection of the local earth bond.
- This product is Class1 equipment and must be earthed. Floodlites are supplied as standard with 3 core earthed supply cables. Where the user specifically requires a 24 volt SELV Floodlite with 2 core cable (+ve and -ve) / a 2 pole plug, the Floodlite must be used with a separate connection to earth via the external earth grounding point.
- If the Floodlite is to be used in areas of high vibration, please consult with Wolf Safety.
- The Floodlite consists of an Ex mb LED chamber and an Ex emb terminal chamber.
- All Floodlites have terminal blocks suitable for up to 4mm² live, neutral and earth.
- The internal fuse should be replaced using a Wolf supplied encapsulated fuse of the correct rating (see spare parts list).
- ATEX approved cable glands must be used and be suitable for the type of cable used. Any unused cable entries should be blanked off with a suitable ATEX/IECEx approved stopper plug to maintain a minimum IP66/67 rating as marked on the label.
- Lamps should be inspected prior to each use for visible signs of damage. Damaged lamps should be removed from the work area and repaired before being put back in service.
- Where the Floodlite lens is polycarbonate, the end user must ensure that this is suitable for the application the Floodlite will be used in.
- 18-54V Floodlites with long cable lengths (>20m) must be checked to ensure the calculated voltage drop will not prevent the apparatus from operating within the specified voltage tolerance.
- In a clean and dry 'safe area', inspect to ensure that the polycarbonate lens and the seal fitted to the lens are performing correctly and are not damaged. The inspection is based on ensuring there is no moisture or water contamination inside the lamp, if the LED panel is clean and dry the white seal is working. The seal is bonded into the cover, the cover and seal must be replaced as a single item. The Polycarbonate lens should be free from cracks and crazing, this includes the area around the securing screws. A regular inspection should be carried out to ensure the lamp does not become contaminated and that the polycarbonate cover is not damaged.
- Low voltage Floodlites marked 18-54V can be connected to a CTE transformer.
- Polycarbonate moulded covers with IP66 (IP67 BSEN60529) are identified by two black dots inside the cover edges. User must ensure that when used, the protective film must remain fixed in place at all times when the equipment is being moved.
- Always use the lamp in the bridle provided and if the Floodlite head is not situated within the protective frame/stand ensure the unit is de-energised before moving.

SPECIAL CONDITIONS FOR SAFE USE (DENOTED BY X AFTER THE CERTIFICATE NUMBER)

- The supply circuit to the 18-54V floodlites must be protected by a fuse capable of withstanding a prospective short circuit current of 1500 A (Wolf Safety transformers are fitted with 80kA breaking capacity fuses, compliant with this requirement).

- Except for internal wiring, not more than one single or multiple strand lead shall be connected into either side of any terminal, unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated crimped boot lace ferrule.
- Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1 mm of the metal of the terminal throat.
- When terminals in accordance with certificate Sira 01ATEX3247U are used, all terminal screws, used and unused, shall be tightened down to between 0.5 Nm and 0.7 Nm.
- When terminals in accordance with certificate Sira 01ATEX3249U are used, all terminal screws, used and unused, shall be tightened down to between 1.2 Nm and 2 Nm.
- When terminals in accordance with certificates Sira 01ATEX3247U and Sira 01ATEX3249U are used, they shall only be installed and wired with cable within a temperature range of -10°C to 80°C.
- When cross-connecting combs are used on terminals to certificates Sira 01ATEX3247U and Sira 01ATEX3249U, the relevant conditions associated with those certificates shall be applied.
- Cable entry holes shall be fitted with either an appropriately certified cable gland or appropriately certified blanking element. These shall provide and maintain a minimum enclosure ingress protection of IP66 or IP67 as appropriate.
- The LED assembly must be replaced following the failure of a maximum of 8 individual LED's.
- When the polycarbonate lens is fitted, the equipment shall only be used in areas with a low risk of mechanical impact.
- When the Lexan polycarbonate lens is fitted, the WF-300 Modular Floodlight/Bulkhead shall not be moved while connected to an electrical supply. When in use, the equipment shall be supported and mounted in a fixed and stable arrangement. The equipment shall be removed from the hazardous area if dropped and shall be inspected in order to determine its continued suitability for use in the hazardous area.
- Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge therefore: the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. ELECTROSTATIC CHARGING HAZARD Clean lens with damp cloth.

Maintenance



- Isolate the Floodlite from the mains supply and allow to cool before carrying out any maintenance work.
- It is essential that all Floodlites are maintained in accordance with the requirements of EN60079-17.
- The cable should be inspected before each use. Regular close inspections must be carried out to ensure the cable is not damaged in any way. Particular attention should be paid to gland and socket entries.
- **IMPORTANT.** No modifications are permitted to the Floodlites, all spare parts must be purchased from the manufacturer, unauthorized modifications or spare parts will invalidate certification.

TECHNICAL DATA

Enclosure	Marine grade aluminium alloy, epoxy powder coated	
Lens	Glass	
Beam Type	Medium Flood(Wide Flood Available)	
Light Source:	Type	48 x White High Power LEDs
	Life	100,000+ hrs
	Output	5200lm
Weight	9.0kg (excluding cable)	
Accessories	Supplied with bridle and lamp stand	

ELECTRICAL DATA

Model	WF-300/*L*	WF-300/*H*
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Voltage	18-54V AC/DC	100-254V AC only
Total Circuit Power	≤ 59Watt	≤ 51 Watt
VA (AC)	93.6 at 24VAC 105.6 at 48VAC	53.46 at 230VAC

PAT testing. maximum insulation testing must be carried out at voltages less than 500V DC, live and neutral cables must be shorted together and the voltage applied between earth and this connection.

CHANGING LED ASSEMBLIES

Isolate the Floodlite, remove the Aluminium/Glass cover assembly by releasing the 4 socket head bolts, the inner LED assembly can now be removed by releasing the 4 additional socket head bolts, the casting with the encapsulated LED's can now be discarded and the whole assembly replaced. Fitting a new LED assembly is a reversal of the above procedure.

DISPOSAL OF WASTE MATERIAL

Disposal of packaging, Floodlite and old LED assemblies should be carried out in accordance with national regulations.

IECEx Scheme Certificate Number: IECEx SIR 10.0016XSupply Voltage 100-254V AC
 Ex e mb IIC T4 Gb (T_a= -20°C to +50°C)
 Ex tb IIIC T103°C Db IP66 (IP67 BSEN60529)
Supply Voltage 18-54V AC/DC
 Ex e mb IIC T4 Gb (T_a= -20°C to +55°C)
 Ex tb IIIC T87°C Db IP66 (IP67 BSEN60529)
 IEC Standards applied: IEC60079-0:2011, IEC60079-18:2009, IEC60079-31:2008, IEC60079-7:2006/07.

WARNING: USE ONLY GENUINE WOLF REPLACEMENT PARTS.

Floodlite ancillary spares (all versions)	
Part Description	Wolf Part No.
Protective Lens Film 3 pack	WF-650/3
Stand and Bridle	WF-698K
Stainless Bolt Pivot Kit	WF-641
4 off Stainless Bolt and 'O' Ring kit	WF-645
Glass Lens Cover with Aluminium frame & Seal	WF-659
Polycarbonate Lens Cover with Seal	WF-647H
Trumpet Gland	LL-311
EX Terminal block	WF-653
Model WF-300/*H*/*** (100-254V)	
Part Description	Wolf Part No.
Internal Fuse - 2.5A	WF-264
Mains supply 5200lm LED driver -Supply voltage (100-254V) lamp housings including potted circuit for products with serial No from 8745. (Except serial numbers 10302 to 10401)	WF-655
5200lm LED Panel – Supply voltage (100-254V) lamps with product serial No from 8745 (Except serial numbers 10302 to 10401)	WF-652
Model WF-300/*L*/*** (18-54V)	
Part Description	Wolf Part No.
Internal Fuse – 5A	WF-262
18-54V 5200lm LED driver - 18-54V lamp housings including potted circuit for products with serial No from 22717. (Also serial numbers 22591 to 22690)	WF-658
5200lm LED Panel - 18-54V lamps with serial Nos from 22717. (Also serial numbers 22591 to 22690)	WF-652

The Wolf Safety Lamp Co. Ltd has a policy of continuous product improvement. Changes in design details may be made without prior notice.

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 WF-429 issue 22 DF491



Wolf Safety Lamp Company
Product manufactured 2010-2015

Wolf WF-300 LED Floodlite (3200 lumens)
 100-254V serial number up to 8744 (also 10302 to 10401)
 24V serial number from up to 22716 (except 22591 to 22690)

Operation and Maintenance Instructions
Please Retain – Read Before Use

EC Declaration of Conformity

The Wolf WF-300 LED Floodlite meets all relevant provisions of the 94/9/EC (ATEX Equipment) Directive by virtue of the issued EC Type Examination Certificate, demonstrating compliance with all relevant Harmonised Standards and Essential Health and Safety Requirements.

The Wolf WF-300 LED Floodlite is a high performance lightweight portable floodlight. Constructed in marine grade aluminium, with a polycarbonate lens: the end user must check that these materials are suitable for the atmosphere the Floodlite will be used in. The Floodlite can be used in Zone 1 and Zone 2 potentially explosive gas, vapour, mist and dust atmospheres where the surface temperature / temperature class and gas group permit.

The incoming mains cable should not exceed a temperature rise of 61°C above the ambient conditions; select suitable cable and cable gland.



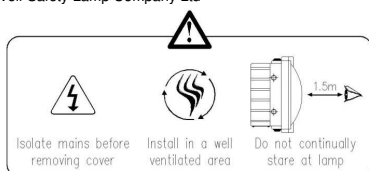
EC Type Examination Certificate: **SIRA10ATEX5117X**

Notified Baseefa Ltd.
 Body: Rockhead Business Park, Staden Lane,
 Buxton, SK17 9RZ, UK
 Notified body number: 1180

Harmonised standards applied:
 EN60079-0:2009, EN60079-7:2007,
 IEC60079-18:2009, IEC60079-31:2008,

Wolf LED Floodlites are certified compliant with the 2008/108/EC EMC Directive.
 The product is CE marked showing compliance with all relevant EC Directives

Alex Jackson – Managing Director
 Wolf Safety Lamp Company Ltd



IMPORTANT

Read these instructions carefully before commencing to use the Floodlite and retain for future use.

- Check the rating label to ensure the Floodlite is suitable for the supply provided, ambient temperature present and IP rating.
- ATEX certification includes assessment of product safety at ±10% of rated voltage, running lamps outside of this voltage tolerance will therefore invalidate the ATEX approval and the product warranty, may result in a dangerous condition, and could cause the product to fail prematurely.
- If the Floodlite is to be used in a hybrid mixture environment of mists or dusts with gases and/or vapours it must be suitably assessed for such use with the maximum surface temperature of the Floodlite.
- If the Floodlite is to be used in areas of high vibration, please consult with Wolf Safety.
- The Floodlite consists of an Ex mb LED chamber and an Ex emb terminal chamber.
- All Floodlites have terminal blocks suitable for up to 4mm² live, neutral and earth.
- The internal fuse should be replaced using a Wolf supplied encapsulated fuse of the correct rating (see spare parts list).
- ATEX approved cable glands must be used and be suitable for the type of cable used. Any unused cable entries should be blanked off with a suitable ATEX approved stopper plug to maintain a minimum IP66/67 rating as marked on the label.
- This product is Class1 equipment and must be earthed. Floodlites are supplied as standard with 3 core earthed supply cables. Where the user specifically requires a 24 volt SELV Floodlite with 2 core cable (+ve and -ve) / a 2 pole plug, the Floodlite must be used with a separate connection to earth via the external earth grounding point.
- The Floodlite lens is moulded in Polycarbonate, the end user must ensure that this is suitable for the atmosphere the Floodlite will be used in.
- It is the user's responsibility to ensure there is no potential difference between the earth supply to a Floodlite unit and the local earth in the work area. Where this is not possible the equipment should be securely earth bonded to metalwork in the immediate vicinity of where the Floodlite is being used. A flexible cable is recommended (6mm² minimum, no more than two metres long), connected to the earth grounding point on the Floodlite enclosure. Floodlites must be de-energised during connection or disconnection of the local earth bond.
- Lamps should be inspected prior to each use for visible signs of damage. Damaged lamps should be removed from the work area and repaired before being put back in service.
- Floodlites with long cable lengths (>20m) must be checked to ensure the calculated voltage drop will not prevent the apparatus from operating within the specified voltage tolerance.
- In a clean and dry 'safe area', inspect to ensure that the polycarbonate lens and the seal fitted to the lens are performing correctly and are not damaged. The inspection is based on ensuring there is no moisture or water contamination inside the lamp, if the LED panel is clean and dry the white seal is working. The seal is bonded into the cover, the cover and seal must be replaced as a single item. The Polycarbonate lens should be free from cracks and crazing, this includes the area around the securing screws. A regular inspection should be carried out to ensure the lamp does not become contaminated and that the polycarbonate cover is not damaged.
- **Do not connect 24 volt lamps to a centre tapped earth transformer (CTE), permanent damage to the product is likely to occur.**
- Polycarbonate moulded covers with IP66 (IP67 BSEN60529) are identified by two black dots inside the cover edges.
- User must ensure that when used, the protective film must remain fixed in place at all times when the equipment is being moved.
- The internal fuse should be replaced using a Wolf supplied encapsulated fuse of the correct rating (see spare parts list).

When user is ≤ 0.35m from the WF-300:

Risk Group 2.
Caution: possible hazardous optical radiation emitted from this product DO NOT stare at the operating lamp. May be harmful to the eye.

Special conditions for safe use (denoted by X after the certificate number)

- Except for internal wiring, not more than one single or multiple strand lead shall be connected into either side of any terminal, unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated crimped boot lace ferrule.
- Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1 mm of the metal of the terminal throat.
- When terminals in accordance with certificate IECEx SIR 05.0035U are used, all terminal screws, used and unused, shall be tightened down to between 0.5 Nm and 0.7 Nm.
- When terminals in accordance with certificate IECEx SIR 05.0037U are used, all terminal screws, used and unused, shall be tightened down to between 1.2 Nm and 2 Nm.
- When terminals in accordance with certificates IECEx SIR 05.0035U and IECEx SIR 05.0037U are used, they shall only be installed and wired with cable within a temperature range of -10°C to 80°C.
- When cross-connecting combs are used on terminals to certificates IECEx SIR 05.0035U and IECEx SIR 05.0037U, the relevant conditions of certification associated with those certificates shall be applied.
- Cable entry holes shall be fitted with either an appropriately certified cable gland or appropriately certified blanking element. These shall provide and maintain a minimum enclosure ingress protection of IP66 or IP67 as appropriate.
- The LED assembly must be replaced following the failure of a maximum of 8 individual LED's.
- When the polycarbonate lens is fitted, the equipment shall only be used in areas with a low risk of mechanical impact.
- When the Lexan polycarbonate lens is fitted, the WF-300 Modular Floodlight/Bulkhead shall not be moved while connected to an electrical supply. When in use, the equipment shall be supported and mounted in a fixed and stable arrangement. The equipment shall be removed from the hazardous area if dropped and shall be inspected in order to determine its continued suitability for use in the hazardous area.
- Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge therefore: the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. ELECTROSTATIC CHARGING HAZARD
 Clean lens with damp cloth.

MAINTENANCE



1. Isolate the Floodlite from the mains supply and allow to cool before carrying out any maintenance work.
 It is essential that all Floodlites are maintained in accordance with the requirements of EN60079-17.
2. The cable should be inspected before each use. Regular close inspections must be carried out to ensure the cable is not damaged in any way. Particular attention should be paid to gland and socket entries.
3. **IMPORTANT.** No modifications are permitted to the Floodlites, all spare parts must be purchased from the manufacturer, unauthorized modifications or spare parts will invalidate certification.

ELECTRICAL DATA

Total circuit watts 60W, power factor correction better the 0.95. Voltage range 100V to 254V +/-10% 50/60Hz or 24V +/-10% AC/DC – see rating label. PAT testing, maximum insulation testing may be carried out at voltages less than or equal to 500V DC, if the Live and Neutral cables are shorted together and the voltage applied between earth and this connection.

CHANGING LED ASSEMBLIES

Isolate the Floodlite, remove the lid assembly by releasing the 4 socket head bolts that are retained in the polycarbonate cover, the inner LED assembly can now be removed by releasing the 4 socket head screws, the casting with the encapsulated LED's can now be discarded. Fitting a new LED assembly is a reversal of the above procedure.

DISPOSAL OF WASTE MATERIAL

Disposal of packaging, Floodlite and old LED assemblies should be carried out in accordance with national regulations.

IECEx Scheme Certification

IECEx Scheme Certificate Number:
IECEx BAS 10.0016

Ex emb IIC T4 Gb (Ta= -20°C to +50°C)
 Ex t IIIC T103°C Db IP66 (IP67 BSEN 60529)
 IEC Standards applied:
 IEC60079-0:2007, IEC60079-18:2009, IEC60079-7:2006/07, EN61241-1:2004

WARNING: USE ONLY GENUINE WOLF REPLACEMENT PARTS.

The Wolf Safety Lamp Co. Ltd has a policy of continuous product improvement. Changes in design details may be made without prior notice.

SPARE PARTS

Description	Wolf Part Number
Protective Lens Film 3 pack	WF-650/3
Stand and Bridle	WF-698K
Stainless Bolt Pivot Kit	WF-641
4 off Stainless Bolt and 'O' Ring kit	WF-645
Polycarbonate Lens Cover with Seal	WF-647H
Trumpet Gland	
LL-311	
EX Terminal block	WF-653
Internal Fuse Low Voltage (24V)	WF-262
Internal Fuse High Voltage (110-230V)	WF-264

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