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**Wolf Safety – the world's leading manufacturer of safe portable and temporary lighting for hazardous areas –  
HAZARDOUS AREA LIGHTING PRESENTATION**

**BRITISH DESIGN AND INNOVATION SINCE 1912**



**PORTABLE LIGHTING**

**TEMPORARY LIGHTING**

**POWER DISTRIBUTION**

**VENTILATION**

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**Where there's a  
risk of  
explosion, you  
can rely on Wolf**





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# Wolf Safety

**Wolf Safety is the world's leading manufacturer of Hazardous Area Portable & Temporary lighting.**

**Wolf offers the widest range of ATEX and IECEx certified explosion protected lighting and power distribution systems.**

**Designed in the United Kingdom, for safe use in potentially explosive atmospheres worldwide.**



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# ATEX EXPLAINED



**A guide to aid in the selection of lighting products for use in potentially explosive atmospheres.**

Based on practice within the EU 2014/34EU ATEX Equipment Directive(Formerly 94/9/EC) & 99/92/EC ATEX Workplace Directive



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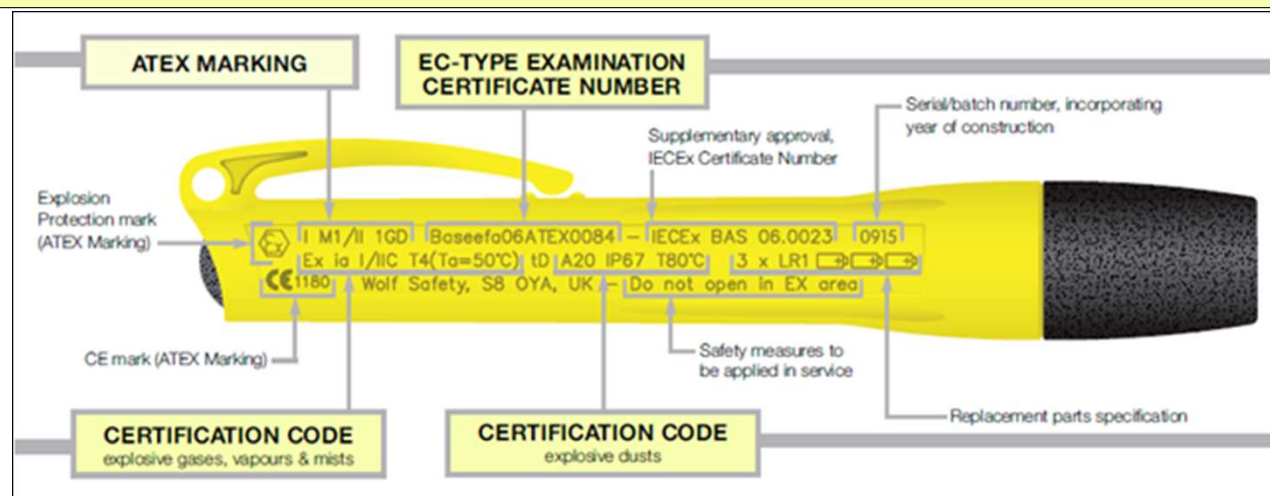
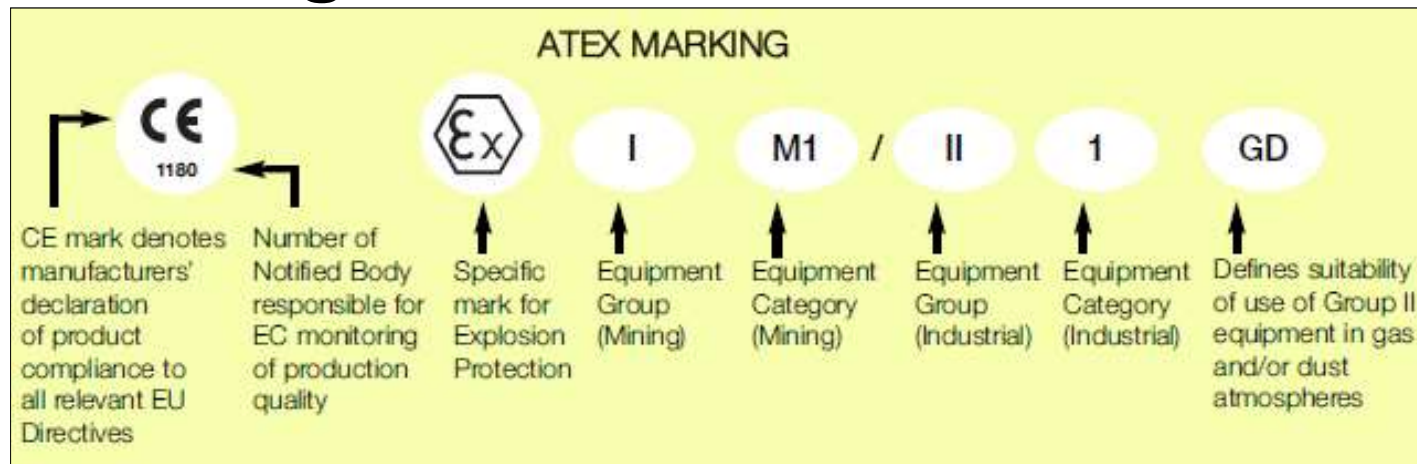
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# ATEX Marking



# Equipment Group and Category

EQUIPMENT GROUP & EQUIPMENT CATEGORY

Mining

Equipment Group	Equipment Category	Protection Level	Hazard		Use
			Gas	Dust	
I	M1	Very high protection	–	–	Operable in Ex atmosphere
	M2	High protection	–	–	De-energised in Ex atmosphere





Industrial




II	1	Very high protection	G		Zones 0,1,2,
				D	Zones 20,21,22
	2	High protection	G		Zones 1,2
				D	Zones 21,22
	3	Normal protection	G		Zones 2
				D	Zones 22

Equipment Group and Category identify the areas in which equipment may be safely used



# Area Classification (Gases & Dusts)

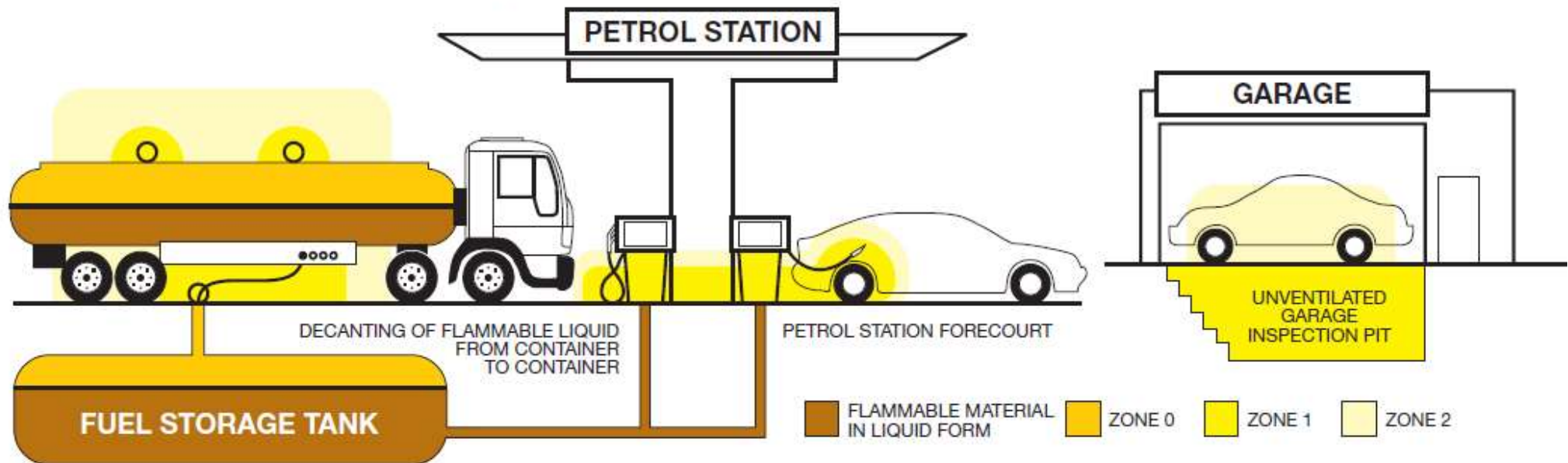
<p>KEY</p>  <p>Explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist, or a cloud of combustible dust in air.</p>
 <p>Spark</p>
 <p>Ignition</p>
 <p>Flameproof flange gap on Ex d equipment</p>
<p>&lt; = less than &gt; = more than</p>

Area Classification		Zone Criteria	<b>CLASSIFICATION OF HAZARDOUS AREAS</b> To EN 60079-10  Hazardous areas are classified into zones on the basis of the frequency and duration of the occurrence of an explosive atmosphere. Durations on table are typical.
Gases	Dusts		
Zone 0	Zone 20	 present continuously or for long periods (>1000hrs per annum)	
Zone 1	Zone 21	 likely to occur in normal operation occasionally (>10hrs, <1000hrs per annum)	
Zone 2	Zone 22	 unlikely to occur in normal operation, if it does will only be for short periods (<10hrs per annum)	

# Ex Environment

## EXAMPLE OF HAZARDOUS AREA ZONES

This diagram shows how hazardous area zones may occur in typical circumstances.







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# Ignition Temperatures for Common Combustible Dusts

IGNITION TEMPERATURES FOR COMMON COMBUSTIBLE DUSTS		
Dust type	Dust Layer – minimum ignition temperature (°C)	Dust Cloud – minimum ignition temperature (°C)
Aluminium	280	530
Coal	270	590
Flour	470	410
Grain	290	420
Iron	300	310
PVC	430	680
Rubber	220	460
Sawdust (Wood)	300	400
Soot	385	620
Starch	530	380
Sugar	360	450

A database of 'Combustion and Explosion Characteristics of Dusts' is available at [www.hvbg.de/e/bia/fac/expl/](http://www.hvbg.de/e/bia/fac/expl/)



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# ATEX Portable Lighting



Wolf Safety offers the widest range of ATEX and IECEx certified portable Hazardous Area lighting for safe use in potentially explosive atmospheres worldwide



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***Our Hazardous Area  
Portable Lighting range  
includes:***

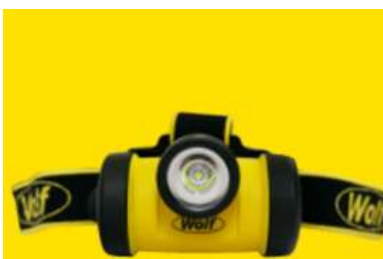
- Handlamps
- Torches
- Headtorches
- Warning lights



**HANDLAMPS**



**TORCHES**



**HEADTORCHES**



**WARNING LIGHTS**



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- **Handlamps**
- Wolflite XT Rechargeable LED Handlamp
- Wolflite H-251ALED Rechargeable Handlamp
- Wolflite H-4DCA Handlamp
- H-251MK2 Handlamp (EX Non-ATEX)



WOLFLITE XT RECHARGEABLE  
LED HANDLAMP



WOLFLITE H-251ALED  
RECHARGEABLE HANDLAMP



WOLFLITE H-4DCA  
HANDLAMP



H-251MK2 HANDLAMP



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- ***Torches***

- Micro and Mini Torches
- Midi Torch
- ATEX Torch
- ATEX Safety Torch with LED
- Rechargeable Torch
- ATEX Compact LED Torch



MICRO AND MINI TORCH



MIDI TORCH



ATEX TORCH



ATEX SAFETY TORCH WITH  
LED



RECHARGEABLE TORCH



ATEX COMPACT LED TORCH



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NEW: 2023

# ATEX Compact LED Torch

TR-65 / TS-65 (ZONE 0)  
TR-60 / TS-60 (ZONE 1)

- Light output:
  - **Market leading 330/300 lumens** emitted (TS/TR-65) & 230/200 lumens (TS/TR-60)
  - 7/14/159 hours (TR-65)/up to 9 hours (TR-60)
  - 4 x AA alkaline primary cells
  - **3** power modes for different light output (TR-65)
  - Balanced spot and fringe optics
- Battery level indicator/Beam dip
- Robust, reliable and proven materials
- Ergonomic design/Compact and lightweight
- Large switch (easy to use even when wearing gloves)



The NEW TR-65 is a compact, lightweight, right angle ATEX Zone 0 Torch for use in the most demanding Hazardous Areas



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# ATEX Temporary Lighting



Wolf Safety offers the widest range of ATEX and IECEx certified temporary Hazardous Area lighting for safe use in potentially explosive atmospheres worldwide



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# SOVI™

Safe Optimal Voltage  
Indicator  
- Unique to Wolf

- Safety is the most important factor in Hazardous Areas
- Increased safety sets Wolf products apart
- SOVI™ makes Wolf products even safer
- SOVI™ is unique to Wolf



- SOVI™ clearly alerts the user if lights are running outside the certified safe & optimal voltage ranges – maximising both *safety & performance*
- Products with SOVI™ are certified safe to 0 volts
- **SOVI™ is Safety**





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***Our Hazardous Area  
Temporary Lighting range  
includes:***

- Luminaires & Floodlites
- Tank Lighting Kits
- Mobile Lighting Units
- Handheld Leadlamps
- Airlamps
- Rechargeable Floodlites & Worklites



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- ***LinkEx™ Temporary Luminaires & Floodlights***
- LinkEx™ WF-250XL LED Floodlight
- LinkEx™ WF-300®XL LED Floodlight
- LinkEx™ LED Temporary Luminaire
- LinkEx™ LED Emergency Temporary Luminaire



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# LINKEx™ WF-300XL® LED FLOODLITE

- High light output - over 9,576 lumens at source
- High reliability LEDs – 100,000+ hours life
- Failsafe product reliability, ensuring operators are never left in the dark
- SOVI safe & certified safe to 0 volts
- HV LinkEx capable
- IP66/67 dust and watertight
- Constructed from proven materials
- Simple design - easy to clean and doesn't harbour dirt
- Complementary product to existing range of LinkEx™ LED Temporary Luminaire area lighting system



The LinkEx™ WF-300®XL LED floodlite is a high performance, robust, lightweight and portable floodlite for use in potentially explosive atmospheres



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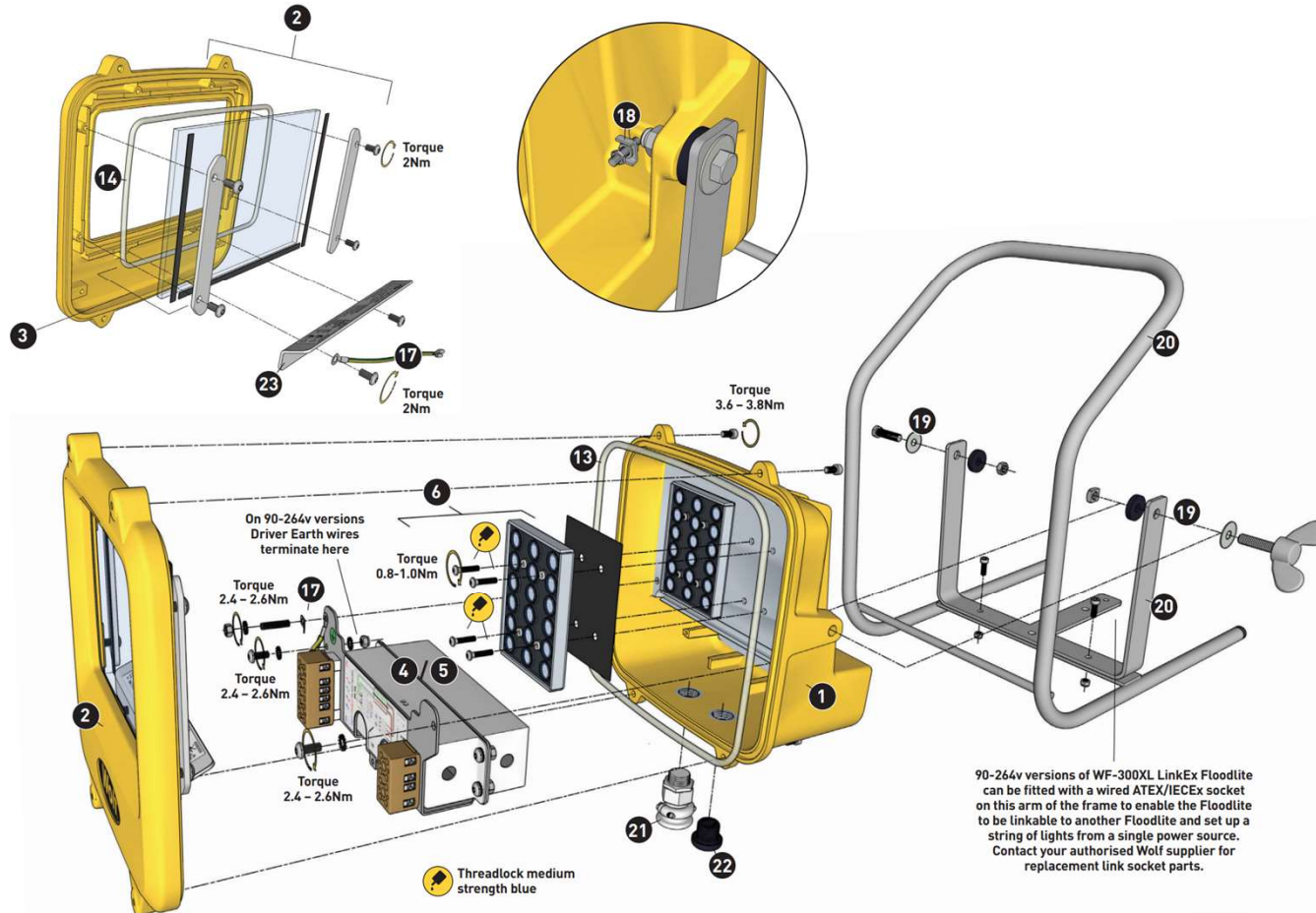
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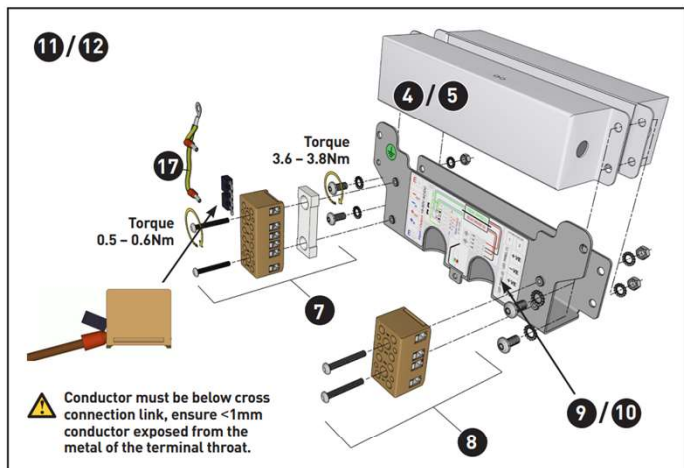
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## SPARE PARTS

Item No.	Part No.	Part Description	Quantity
1	WF-552	Painted rear casting + seal and retaining bolts	1
2	WF-572	Painted front cover assembly, complete with glass	1
3	WF-554	Glass Lens, Seal and bracket pads	1
4	WF-586	18-50V LED Driver	1 (2 needed per Floodlite)
5	WF-592	90-264V LED Driver	1 (2 needed per Floodlite)
6	WF-558	LED Panel, Thermal pad and fixing screws	1
7	WF-562	6 way -4mm <sup>2</sup> Terminal Block, & 2 QB links and fixing screws	1
8	WF-564	4 way -4mm <sup>2</sup> Terminal Block, and fixing screws	1
9	WF-587	LED Driver Retention Bracket (18-50V)	1
10	WF-589	LED Driver Retention Bracket (90-264V)	1
11	WF-560	Complete Driver Assembly Inc. Bracket and terminals (18-50V)	1
12	WF-570	Complete Driver Assembly Inc. Bracket and terminals (90-264V)	1
13	WF-584	Floodlite Enclosure Seal	1
14	WF-585	Floodlite Glass Seal	1
15	WF-576L	Internal Screw and Sticker Set 18-50V AC/DC	1
16	WF-576H	Internal Screw and Sticker Set 90-264V AC	1
17	WF-566	Internal Earth/Grounding wire set	1
18	WF-568	External Earth Stud	1
19	WF-590	Bridle Fixing Kit	1
20	WF-582	Frame & Bridle (No fixings incl.)	1
21	LL-311	Gland M20 x 1.5mm	1 (+1 LinkEx Versions)
22	WF-495	M20 stopping plug	1
23	WF-550	Certification label and bracket are specific to the individual product, contact your authorised Wolf supplier for replacement.	1

Contact your authorised Wolf supplier for replacement cables, plugs or link socket components.



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# LINKEx™ WF-250XL LED FLOODLITE

- Up to 4,788 lumens at source
- Effective work area illumination when using a limited power source
- Up to 8 lights can be connected from one transformer
- Complementary product to existing range of LinkEx™ LED Temporary Luminaire area lighting system
- LINKEx capable - both LV and HV units can be fitted with linkable sockets
- Low power consumption, reduced operating costs
- Enhanced safety with SOVI™ & certified safe to 0 volts



The LinkEx™ WF-250XL LED floodlite is designed to give the optimum level of light for working in smaller, hazardous area confined spaces



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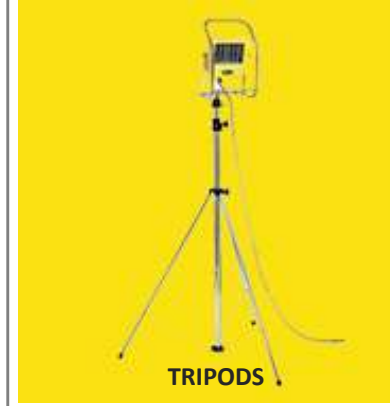
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***A wide range of accessories for LinkEx™ LED Floodlites is available:***

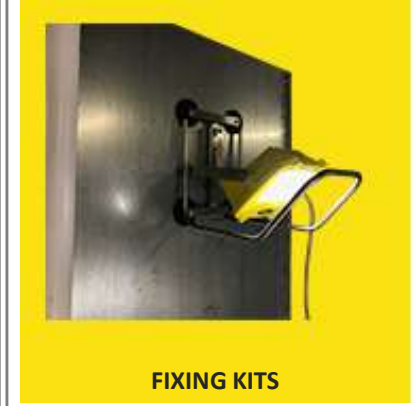
- Mesh Cover
- Tripod stands
- Fixing Kits
- Certified Anti-Static Protection Kits
- Certified Anti-static Lens Guard
- Cable Management



**MESH COVER**



**TRIPODS**



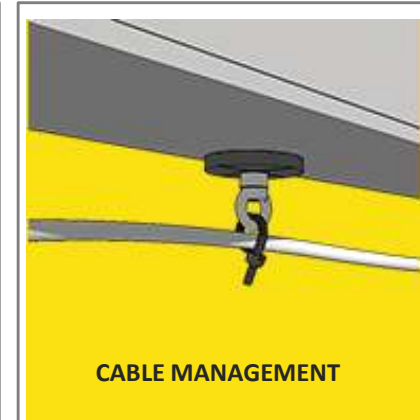
**FIXING KITS**



**CERTIFIED ANTI-STATIC PROTECTION KIT**



**CERTIFIED ANTI-STATIC LENS GUARD**



**CABLE MANAGEMENT**



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# LinkEx™ LED Temporary Luminaire

- 4,000 lumens at source
- T4 HV & LV & linkable versions available
- High power, low maintenance LED light source 'Fitted for Life'
- SOVI safe and certified safe to 0 volts
- Available with ATEX plugs and sockets to link in series/chain
- Compact and robust design
- Low power consumption
- Certified, anti-static, protection film & bags (bags only T4)
- Wide range of fixing and mounting accessories available



The LinkEx™ LED Temporary Luminaire is a high powered LED leadlamp for use in short-term lighting installations and maintenance tasks

# LinkEx™ LED Emergency Temporary Luminaire

- All the features of the standard LX-400 temporary luminaire
- Up to 3,000 lumens light output (1,500 lumens on battery power)
- 3 hour light duration on emergency battery power
- “Exit” version available



The Emergency Luminaire provides increased safety by automatically switching to the battery power source should there be any interruption to the normal power supply

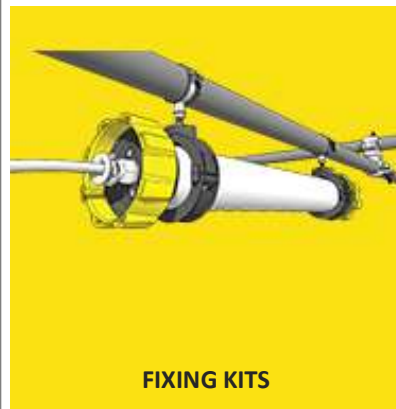




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***A wide range of accessories for LinkEx™ LED Temporary Luminaires is available:***

- Fixing Kits
- Tripod Stands
- Certified Anti-Static Protection Kits
- Certified Anti-static Films
- Cable Management



**FIXING KITS**



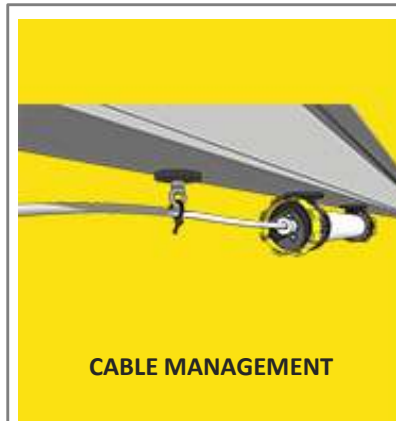
**TRIPODS**



**CERTIFIED ANTI-STATIC  
PROTECTION KITS**



**CERTIFIED ANTI-STATIC FILMS**



**CABLE MANAGEMENT**



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Virtually endless combinations of linked lights are possible to illuminate your hazardous area workspace

## 230V Supply Maximum Linkable Light Chains

LinkEx™ LED Temporary Luminaire Linkable with ATX plug/socket, SY 5m 2.5mm<sup>2</sup> cable, input 230V [e.g. LX-400SHA230/T4/SY5]



LinkEx™ LED WF-250XL Floodlite Linkable 10m with ATX plug/socket, SY 10m 2.5mm<sup>2</sup> cable, input 230V [e.g. WF-250XL/SY10/ATX230/LINK]



LinkEx™ LED WF-300XL Floodlite Linkable 10m with ATX plug/socket, SY 10m 2.5mm<sup>2</sup> cable, input 230V [e.g. WF-300XL/SY10/ATX230/LINK]



LinkEx™ LED Emergency Temporary Luminaire Linkable with ATX plug/socket, SY 5m 2.5mm<sup>2</sup> cable, input 230V [e.g. LX-400EHA230/T4/SY5]



Endless combinations of linked lights are possible to ensure ultimate illumination of your specific working environment.







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All Wolf Safety Linkable Temporary lights are fitted with SOVI™ for increased safety and improved performance

## 110V Supply Maximum Linkable Light Chains

LinkEx™ LED Temporary Luminaire Linkable 5m with ATX plug/socket, 5Y 5m 2.5mm<sup>2</sup> cable, input 110V (e.g. LX-4005HA110/T4/SYS)



LinkEx™ LED WF-250XL Floodlight Linkable 10m with ATX plug/socket, 5Y 10m 2.5mm<sup>2</sup> cable, input 110V (e.g. WF-250XL/SY10/ATX110/LINK)



LinkEx™ LED Floodlight Linkable 10m with ATX plug/socket, 5Y 10m 2.5mm<sup>2</sup> cable, input 110V (e.g. WF-300XLH/SY10/ATX110/LINK)



LinkEx™ LED Emergency Temporary Luminaire Linkable with ATX plug/socket, 5Y 5m 2.5mm<sup>2</sup> cable, input 110V (e.g. LX-400EHA110/T4/SYS)



Endless combinations of linked lights are possible to ensure ultimate illumination of your specific working environment.

Examples of possible combinations:



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# LinkEx™ Tank Lighting Kits

- The kits allow for a flexible setup of high quality task and ambient lighting to suit all working conditions in tanks and vessels and offers your workers a high level of safety through a simple configuration of:
  - LinkEx™ LED Temporary Luminaires
  - LinkEx™ LED Temporary Emergency Luminaires
  - LinkEx™ WF-300XL LED Floodlites
  - Handheld Leadlamps
  - ATEX Transformer, 230V or 110V to 24V
  - Range of cables, plugs and socket types and power distribution systems
  - Protective, fixing and mounting accessories



The LinkEx™ Tank Lighting Kits provide low voltage temporary lighting solutions for Zones 1 and 2 (Gas) and 21 and 22 (Dust) hazardous areas where potentially explosive gases, vapours, mists and dusts may be present in a confined space





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Tank Lighting Kits are available in Standard combinations, or in bespoke kits based on customer specific requirements

Accessories include hanging straps and protective film (Luminaires) and anti-static paint protection covers (Luminaires and Floodlights)	Transformer Voltage & Model	VA	Ambient Temp. (°C)	Kit Code
	GRP 110V (LL-114/T4)	250	-20°C to +55°C	LX-175/T4
	SS-110V (LL-133/T4)	250		LX-185/T4
	GRP 230V (LL-214/T4)	250		LX-275/T4
	SS 230V (LL-233/T4)	250		LX-285/T4
	GRP 110V (LL-114/T4)	250	-20°C to +55°C	LX-146/T4
	SS-110V (LL-133/T4)	250		LX-166/T4
	GRP 230V (LL-214/T4)	250		LX-246/T4
	SS 230V (LL-233/T4)	250		LX-266/T4
	GRP 110V (LL-114/T4)	250	-20°C to +55°C	LX-139/T4
	SS-110V (LL-133/T4)	250		LX-159/T4
	GRP 230V (LL-214/T4)	250		LX-239/T4
	SS 230V (LL-233/T4)	250		LX-259/T4
	GRP 110V (LL-114/T3)	400	-20°C to +35°C	LL-135
	SS-110V (LL-133/T3)	400		LL-155
	GRP 230V (LL-214/T3)	400		LL-235
	SS 230V (LL-233/T3)	400		LL-255
	GRP 110V (LL-114/T3)	400	-20°C to +35°C	LX-137/T3
	SS-110V (LL-133/T3)	400		LX-157/T3
	GRP 230V (LL-214/T3)	400		LX-237/T3
	SS 230V (LL-233/T3)	400		LX-257/T3
	GRP 110V (LL-114/T3)	400	-20°C to +35°C	LX-147/T3
	SS-110V (LL-133/T3)	400		LX-167/T3
	GRP 230V (LL-214/T3)	400		LX-247/T3
	SS 230V (LL-233/T3)	400		LX-267/T3



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- *Airlamps*
- ATEX Turbolite



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**Updated: Jan 2024**

# ATEX Turbolite

A-TL44C, A-TL45C

- CE marked to ATEX Directive, for use in zones 1 and 2 Hazardous Areas
- Aluminium super-lightweight construction
- 250 watt Halogen light output – 6,000/9,000 Lumen output (Standard / High Output bulb)
- Safe compressed air power source
- Fitted with stainless steel exhaust silencer
- Dust ignition protected for zones 21 and 22 using remote exhaust
- Mounting and protection accessories available



The ATEX Turbolite is a high power compressed air driven lamp for use in potentially explosive atmospheres



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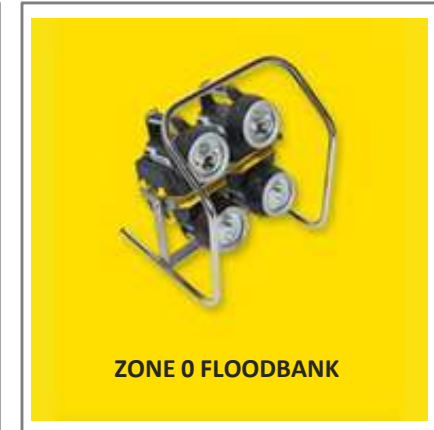
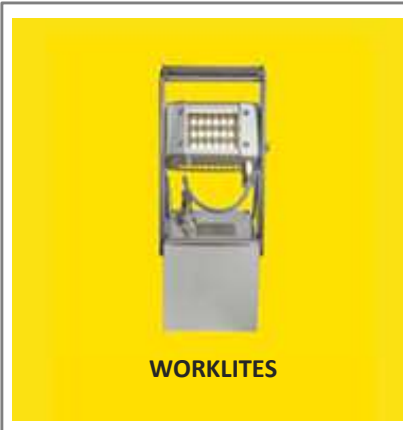
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***Rechargeable Floodlights  
and Worklights:***

- ATEX/IECEX Worklites – WL-80, WL-85
- ATEX/IECEX Mini Worklite WL-50
- ATEX Zone 0 Flood Banks



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# ATEX/IECEX Worklites

WL-80, WL-85

- Light Output - up to 3,100 lumens at source
- Light Duration - up to 40 hours
- LED Life - designed to give 100,000+ hours
- Piercing spot beam and a flood of lower level fringe light
- Both IP66 and IP67 protection from ingress of dust and water
- In shot blasting and painting applications, the lens can be protected using a disposable antistatic lens guard



The ATEX & IECEx certified Worklite™ is a rechargeable, high output LED floodlight for use in harsh, remote applications for extended periods



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# ATEX/IECEX LED Mini Worklite™

WL-50, WL-50HT



- Light output - up to 3,100 lumens at source
- Light Duration - up to 10 hours
- Light weight - 9kgs
- LED Life - designed to give 100,000+ hours
- ATEX & IECEx Certified
- Robust and proven powder coated die-cast construction

The ATEX & IECEx certified WL-50 & WL-50HT light weight mini Worklite™ is an easily carried, rechargeable, high output LED floodlight for use in harsh, remote, hazardous area applications



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# ATEX Zone 0 Flood Banks

XT-602, XT-604, XT-606



- Incorporates Wolflite XT Rechargeable Zone 0 Handlamps (XT-75)
- Ultra bright high power LED light up to 2,580 lumens
- Configuration of 2, 4 or 6 handlamps per bank
- Mountable on tripod or positioned at ground level
- Spot and flood switchable beam options
- Duration: 7.5 hrs (full power)/15 hrs (powersave)
- Built in state of charge indication for each lamp
- IP67 dust and watertight
- Mains chargers supplied

The ATEX Zone 0 Flood Bank exploits the performance and reliability of the Wolflite XT Rechargeable Zone 0 Handlamps to deliver collectively a flood of outstanding illumination, of up to 2,580 lumens, to a Zone 0 hazardous task area



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***Our Hazardous Area  
Temporary Power  
Distribution range  
includes:***

- Transformers
- Splitter boxes
- Cable Reels
- Extension cables



TRANSFORMERS



SPLITTER BOXES



CABLE REELS



EXTENSION CABLES



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# Transformers

ATEX 400VA TRANSFORMER,  
ATEX 250VA TRANSFORMER HIGH TEMP

- ATEX approved for use in Zones 1 explosive gas and 21 dust atmospheres
- IECEx certified (GRP only)
- Robust and durable construction (GRP or SS)
- Transportable and portable design
- Wide voltage range - 230V/110V to 24V & 230V to 110V
- 400VA (with dual rating options) or 250VA power
- Fitted with 4 x ATX socket outlets
- Supplied with 15m SY cable and ATX plug
- Power temporary ambient and task lighting and ancillary maintenance equipment



Wolf ATEX Transformers are CE marked to the ATEX directive for safe use in Zones 1 and 2, where the T class and ambient temperatures permit. Wolf transformers are both ATEX and IECEx certified



PORTABLE LIGHTING

TEMPORARY LIGHTING

POWER DISTRIBUTION

VENTILATION

[www.wolfsafety.com](http://www.wolfsafety.com)



**WITHOUT COMPROMISE**

## Transformer & Lamp Combinations

Power Rating	Temperature Rating	Construction	Ambient Temperature range
250 VA	T4	GRP	-20°C - +55°C
250 VA	T4	SS	-20°C - +55°C
320 VA	T3	GRP	-20°C - +50°C
320 VA	T3	SS	-20°C - +42°C
400 VA	T3	GRP	-20°C - +35°C
400 VA	T3	SS	-20°C - +30°C



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## Transformer & Lamp Combinations

Lamp Type	Power consumption	Max Lights per 250VA	Max Lights per 320VA	Max Lights per 400VA
LX-400 24V	42VA	5	7	9
WF-250XL	44VA	4	6	8
WF-300XL	84VA	2	3	4



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# Splitter Boxes

LL-260

- ATEX Approved for Zones 1 and 2 gas and Zones 21 and 22 dust explosive atmospheres
- Robust GRP construction & stainless steel skid
- Compact, lightweight and portable configuration
- Fitted with ATX, CEAG or STAHL plugs and x4 sockets and 15m SY input cable
- 230V, 110V or 24V input voltage available
- Integrated handle for ease of movement
- Alternative voltage, plugs and sockets available
- Allows versatile lighting configurations
- Fully compatible with the Temporary Lighting range



The ATEX Splitter Box is compact, portable and CE marked to the ATEX Directive for safe use in Zones 1 and 21 - ideal for power distribution within hazardous area confined spaces





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# Atex Cable Reel

LL-300/110/ATX, LL-300/110/CEAG, LL-300/230/ATX, LL-300/230/CEAG

- ATEX Approved for Zone 1 explosive Gas atmospheres
- Compact and solid hard rubber reel body with flat steel frame
- Internal brake which does not produce friction on reel body
- Fitted with ATX and CEAG plugs and sockets with 30m HOFR cable
- 110V or 230V Input Voltage available
- Alternative voltage, plugs and sockets available on request
- Fully compatible with Wolf Safety's Temporary Lighting Solutions



The Wolf ATEX cable reel is CE marked to the 2014/34/EU ATEX equipment directive for safe use in Zone 1 (cat 2) IIC, where a T6 temperature class permits



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# Atex Extension Cables

LL-675, LL-661, LL-666, LL-671, LL-660, LL-665, LL-670

- Flexible way of lengthening the reach of the lamps
- Used at either the start of a chain of lamps allowing a transformer to reside in a safe area or in the middle of a chain of lamps allowing 2 or more work areas to be lit without the need for additional power supplies.
- 24, 110 and 230V versions.
- Lengths of between 15 and 30 meters.
- Max. overall length of cable in a chain must be carefully considered to ensure voltage does not drop below minimum level

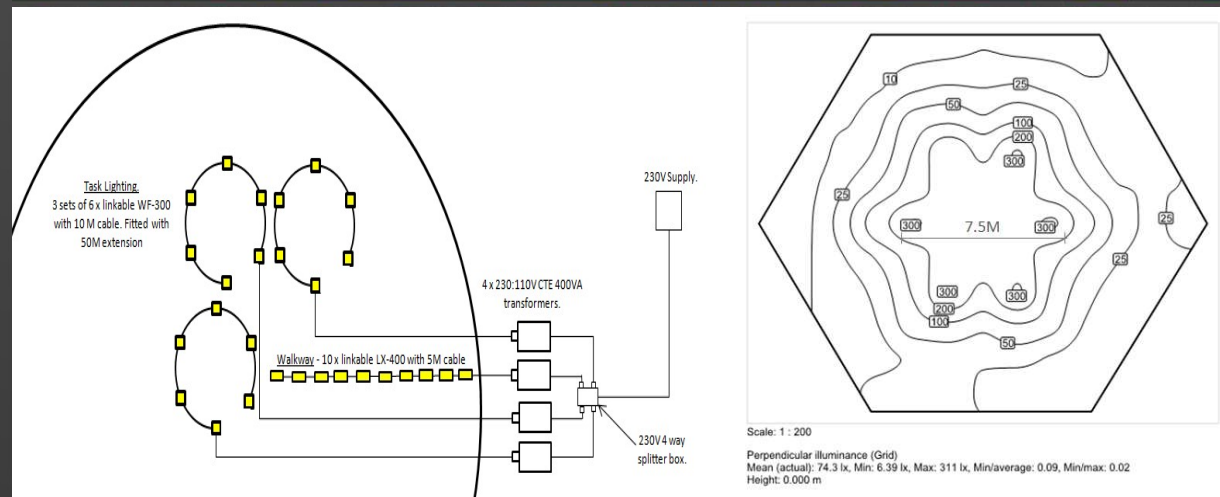
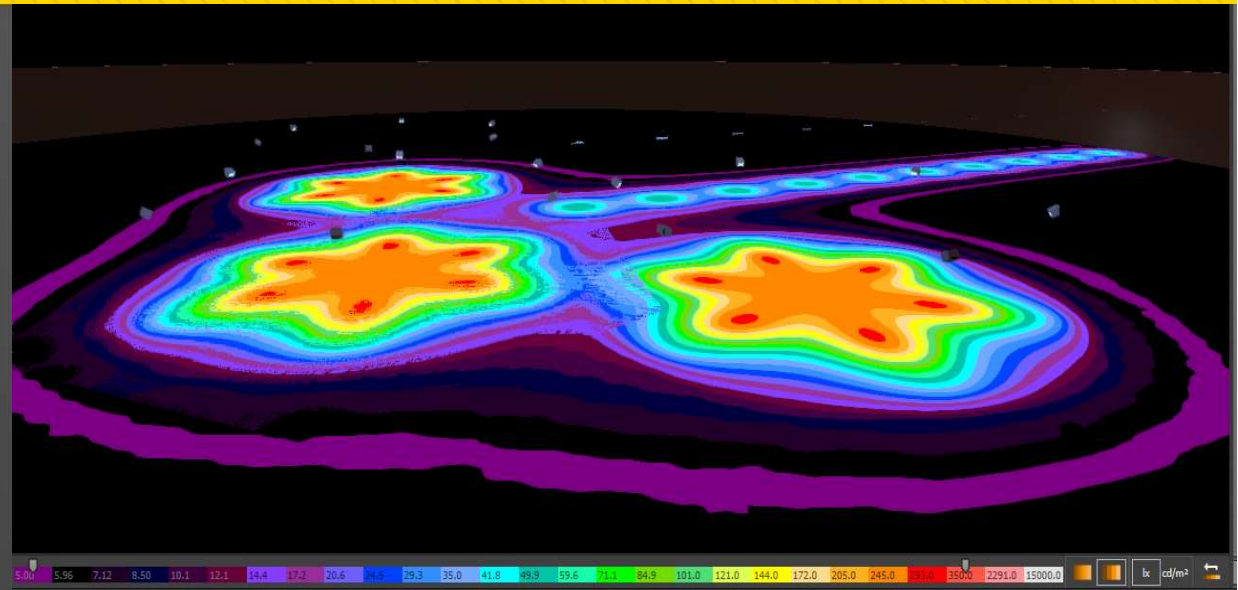


ATEX extension cables allow a flexible way of lengthening the reach of the lamps within a potentially explosive atmosphere



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Lighting Studies  
– if you require  
assistance or  
guidance we are  
here to help



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POWER DISTRIBUTION

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# NEW!

## ATEX INSTALLED LED LIGHTING

### FROM WOLF SAFETY



Wolf Safety – the world's leading manufacturer of ATEX Portable and Temporary Lighting – has launched its brand-new LED **Installed** hazardous area lighting range



LMX Linear  
Zones 1/21



LFX Floodlights  
Zone 1/21



LHX Highbay Lights  
Zones 1/21



LBX Bulkheads  
Zones 1/21



# ATEX Installed LED Lighting: LMX – Linear Luminaire



## LMX Linear luminaires

Ideal for safely illuminating hazardous area walkways, corridors, and long and large open areas

## Features

- Zones 1/21, T4, IP66 and 67
- Standard industry sizes – 2 foot or 4 foot
- Uniquely available as DLO or FFA
- Up to 5,258 lumens/5000K colour temperature
- High temperature versions up to 60°C
- Projected L70 in excess of 145,000 hours
- Intelligent Emergency versions available
- 5-year warranty







## ATEX Installed LED Lighting: LMXE – Linear Luminaire **Emergency**

### LMXE Linear luminaires

All the features of the LMX, plus:

For more details click  
[here](#)

### Features

- Battery powered emergency mode durations of:
  - 4 hours at 25% output (LMX2E models); 4 hours at 12.5% output (LMX4E models)
  - 2 hours at 50% output (LMX2E models); 2 hours at 25% output (LMX4E models)
  - 1 hour at 100% output (LMX2E models); 1 hour at 50% output (LMX4E models)
- 3 colour LED indicator to show the state of the circuit
- Critical fault shutdown
- Periodic automatic self-testing



# Introducing DLO (Directional Linear Optics)

Revolutionary, patented light delivery technology which combines benefits of fluorescent and LED lighting, whilst eliminating the drawbacks of both.

- Very Low Glare
- Very high high light uniformity
- Directable light
  - Gets light where it's needed
  - Almost 100% of optical output is useful illumination
- Zero colour shift with angle change
- Ideal replacement for fluorescents



## DLO or FFA – How to choose

**DLO (Directional Linear Optics) – for minimal glare and maximum comfort. Available on LMX and LBX models**

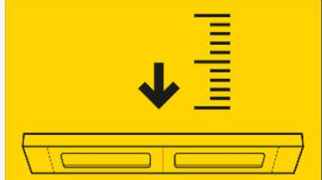
**USE DLO  
WHEN:**



Operators are likely to glance at or look towards the light source



directed to a precisely defined area, without spill



The light mounting is low



illuminated is smaller or more specific



Operators are present for longer periods in the illuminated area



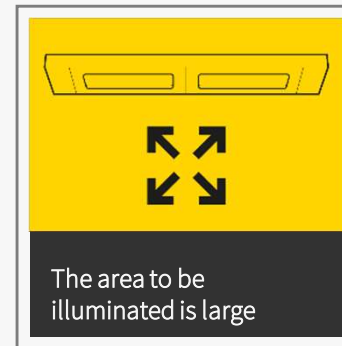
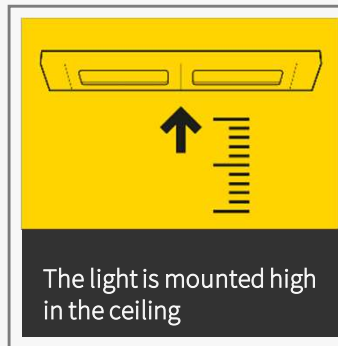
Where close, high quality or inspection work is to be carried out



## DLO or FFA – How to choose

**FFA (Forward Facing Array – conventional LED configuration) – for illuminating large areas and where the light is mounted at a safe height**

**USE FFA  
WHEN:**



# ATEX Installed LED Lighting:

## LFX – Floodlite



### LFX Floodlites

Ideal for safely and brightly illuminating large Hazardous Areas that need wide, even, light coverage

### Features

- Zones 1/21, T4, IP66 and IP67
- Up to 25,932 lumens light output/5000K colour temperature
- Available in 4 different beam angles
- 4 different versions – 2 sizes, large & small; 12/16 or 24/32 LED arrays
- High temperature versions up to 65°C
- Projected L70 in excess of 145,000 hours
- 5-year warranty



# ATEX Installed LED Lighting:

## LHX – Highbay



### LHX Highbay Lights

Ideal for safely and brightly illuminating very high and large hazardous work areas.

### Features

- Zones 1/21, T4, IP66 and IP67
- Up to 25,932 lumens light output/5000K colour temperature
- Available in 4 different beam angles
- 4 different versions – 2 sizes, large & small; 12/16 or 24/32 LED arrays
- High temperature versions up to 65°C
- Projected L70 in excess of 145,000 hours)
- 5-year warranty





# ATEX Installed LED Lighting: LBX – Bulkhead



## LBX Bulkheads

Ideal for safely illuminating walkways, steps and entrances within hazardous areas.

## Features

- Zones 1/21, T4, IP66 and IP677
- DLO (Directional Linear Optics) technology ensures minimal glare, even when installed at eye level
- Up to 1,629 lumens light output/5000K colour temperature
- High temperature versions up to 65°C
- Projected L70 in excess of 145,000 hours
- 5-year warranty



# ATEX Installed LED Lighting: LBXE – Bulkhead **Emergency**



## LBXE Bulkheads

Intelligent Emergency and Intelligent Emergency Exit models share all the same features as the LBX, plus:

For more details click  
[here](#)

## Features

- Battery powered emergency mode durations of:
  - 4 hours at 25% output
  - 2 hours at 50% output
  - 1 hour at 100% output
  - Configurable on installation
- 3 colour LED indicator to show the state of the circuit
- Critical fault shutdown
- Periodic automatic self-testing



# ACCESSORIES



## Accessories

A full range of accessories for the installed product range is available.

## Including:

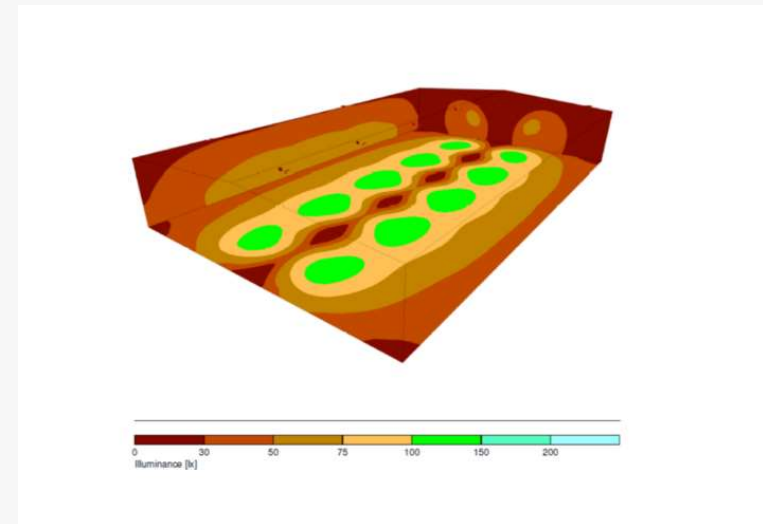
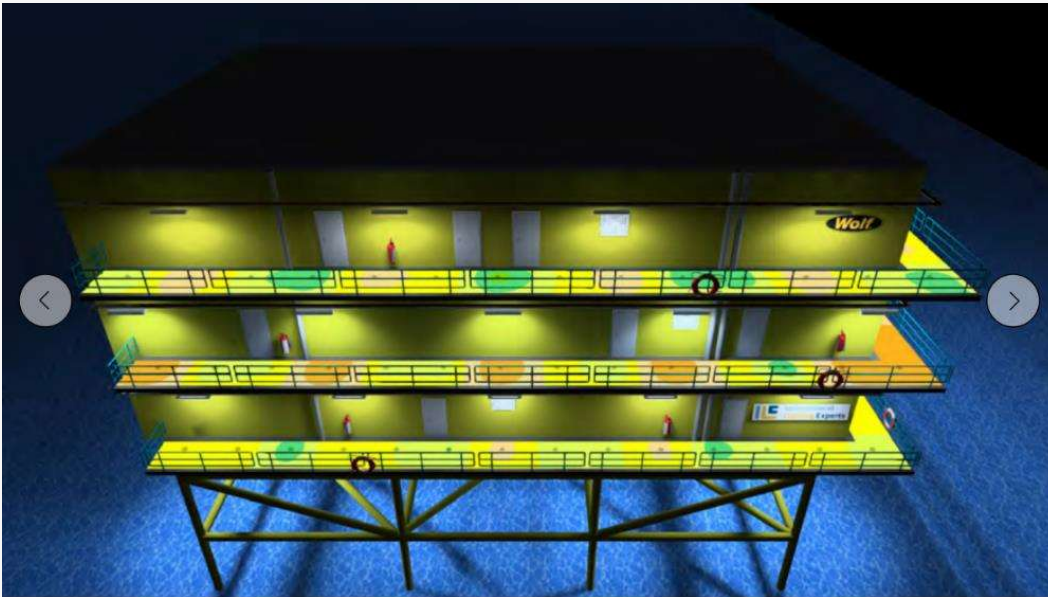
- Linears:
  - Ceiling Brackets and Adjustable Brackets
- Floodlites
  - Horizontal and Vertical Pole Kits
- Highbays
  - Wire Suspension Kits and Horizontal Pole kits
- Bulkheads
  - Ceiling Brackets and Eye Bolt Kits





# Lighting Designs

- Our technical team can provide detailed plan to illustrate the different options we can offer, clearly demonstrating:
  - Lux levels
  - Direction & spread of light
- IES files available from the website



# KEY BENEFITS

## Key Benefits of the Wolf Installed Lighting Range

### HIGHLY EFFICIENT DRIVERS AND LIGHT ENGINES

Deliver up to 144 lumens  
per Watt, reducing  
running costs

### COMPREHENSIVE RANGE OF OPTICS

directed to a precisely  
defined area, without  
overspill

### LOW INRUSH CURRENT

Enhanced utilisation of  
MCBs and lower  
installation costs

### IDEAL FOR RETROFIT

No need to replace  
existing cables

### LIGHTING DESIGN SERVICE

Full lighting design  
service available

### EXCEPTIONALLY LONG LED LIFE

Projected L70 in excess  
of 145,000 hours

### MINIMAL GLARE

Patented DLO  
technology reduces  
dazzle

### PERFECT REPLACEMENT FOR FLUORESCENTS

DLO technology allows  
close positioning to  
personnel

### MADE IN THE UK

Over 100 years  
experience producing  
safety lights in the UK

### 5 YEAR GUARANTEE

All installed lighting  
products are supplied  
with a 5 year warranty





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