

ATEX/IECEX LED Worklite - NEW AND IMPROVED 2018

Zones: 1, 2, 21 and 22



Product Overview

FULLY UPDATED IN 2018, the ATEX & IECEx certified Worklite is a rechargeable, high output LED floodlight for use in harsh, remote applications for extended periods. It offers unique levels of light output, operational duration and robustness in a self-contained battery powered lamp. It is CE marked to the ATEX Directive for safe use in Zones 1, 2, 21 and 22 potentially explosive gas, vapour, mist and dust atmospheres, where a T4 temperature class permits.

Following the 2018 update, the Worklite now has:

- **3X The Light Output - up to 3,100 lumens at source**
- **2X The Light Duration - up to 40 hours**
- **4X The LED Life - designed to give 100,000+ hours**
- **IECEX Certification**

Two ATEX Worklite models are available: the WL-85, which has an 18 LED lamp head giving over 3100 lumens output at source, and the WL-80 which also has an 18 LED lamp head giving 3100 lumens of light output but comes with a smaller, lighter battery to make it easily portable. Both models deliver a piercing spot beam and a flood of lower level fringe light. Low maintenance is assured by the LED light source which is designed to give over 100,000 hours life.

The duration of the WL-85 is up to 21 hours on 'high power' and up to 40 hours on 'low power' and the WL-80 is up to 15 hours on 'high power' and up to 22 hours on 'low power'. In addition to dual light output levels, the control circuit manages switch function, battery level indication, emergency powerfail illumination and low battery cut-off, maintaining and protecting the battery from deep discharge damage.

The ATEX Worklite's stainless steel construction is designed to withstand the rigours and corrosion of harsh industrial and offshore applications. The battery and control circuit are in a box enclosure giving IP66 and IP67 protection from ingress of dust and water. The anodised aluminium lamp pivotable head is also IP66 and IP67 sealed and designed as a heatsink for the LED light source. Being both IP66 and IP67 means that as well as being "dust tight" the Worklite is protected against powerful jets

Features & Benefits

- ATEX and IECEx Approved for Zone 1 explosive gas and dust atmospheres, and OP IS compliant
- High power white LED beam with flood of lower level fringe light
- LED light source 'fitted for life' with 100,000+ hours life.
- Long duration, up to 21 hours full power, 40 hours half power
- Certified to both IP66 and 67, Worklites are dust tight and protected against powerful jets of water, heavy seas and immersion.
- Robust durable stainless steel construction battery enclosure and frame
- Locking pivot head to direct light
- Toughened glass lens with optional disposable lens guard
- Rechargeable high capacity battery, fully managed
- State of charge LED indication
- Supplied with a mains charger with state of charge indication, powered from 100 to 254Vac

Certifications

**NATO**

1180

**THORNE &
DERRICK
INTERNATIONAL****Thorne & Derrick**
+44 (0) 191 410 4292
www.cablejoints.co.uk

of water, heavy seas and immersion. The lens is impact resistant 6mm toughened glass. In shot blasting and painting applications, the lens can be protected using a disposable antistatic lens guard (3 supplied).

NSN Codes

6230-99-3688359 - WL-80MOD

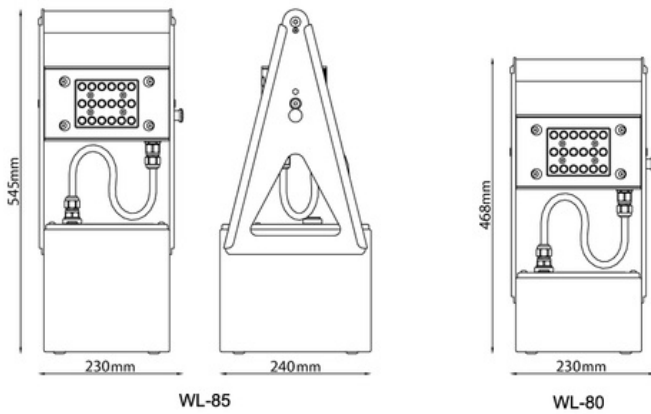
Technical Specification

| | | | |
|-------------------------------|----------------|--|----------------------|
| Product Reference | | WL-80 | WL-85 |
| Product Description | | High Power Rechargeable Battery Worklite 18 LED | |
| Code | | II 2 GD Ex e ib mb op is IIC T4 Gb Ex tb op is IIIC T135°C Db | |
| Type of Protection | | 'e' Increased Safety, 'ib' Intrinsic Safety, 'op is' optical intrinsic safety, 'mb' Encapsulation, tb Enclosure Protection | |
| Area of Classification (Gas) | | Zones 1 and 2, Gas Groups IIA, IIB, IIC | |
| Temp. Classification (Gas) | | T4 | |
| Area of Classification (Dust) | | Zones 21 and 22, Dust Groups IIIA, IIIB, IIIC | |
| Max Surface Temp. (Dust) | | T135°C | |
| Ambient Temperature | | -20° C to +40° C | |
| Certificate | | Sira07ATEX3027X, IECEx SIR.18.0028X | |
| Enclosure | | Stainless Steel with Aluminium LED Lamp Head | |
| Lens | | Toughened Glass Lens Supplied with 3 Anti-static Lens Guards | |
| Beam Type | | Spot Beam with a Flood of Low Level Fringe Light | |
| Light Source: | Type | High Power LED | |
| | Power / Output | 18 x High Power LEDs / Up to 3100 lm at source | |
| | Life | 100,000hrs+ (Fitted for Life) | |
| Power Source: | Part No. | W-218 | W-235 |
| | Battery Type | Rechargeable Battery, Sealed Gel Lead Acid | |
| | Volts | 12V | |
| | Capacity | 18Ah | 35Ah |
| | Life | Up to 500 Recharge Cycles | |
| Low Battery Indicator | | Yes | |
| Light Duration - High / Low | | Up to 15hrs / 22hrs | Up to 21 hrs / 40hrs |
| Ingress Protection | | IP66 and IP67* to IEC60529 | |
| Weight (inc. battery) | | 16.5kg | 23kg |
| Charger Input | | 100 - 254 Vac | |
| Recharge Time | | 8hrs | 12hrs |

* Being certified to both IP66 and IP67, the Worklite is "dust tight" and protects against both powerful jets of water and against heavy seas and immersion

- All information has been gathered under laboratory conditions, the user must regard the values given as approximate.
- Changes may be made to the above specification without notification, details are available on request.

Product Dimensions



Light Output

Spot Beam, approximately 14°, with a flood of lower level fringe light.

Full Power:

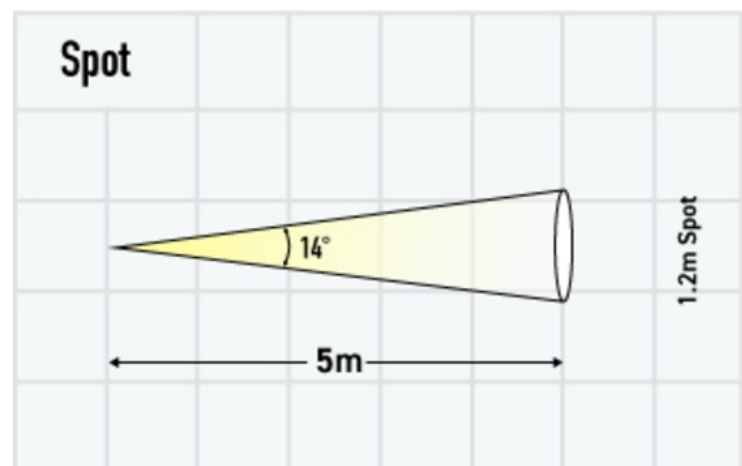
11,200 Lux at 1m

430 Lux at 5m

Half Power:

5700 Lux at 1m

240 Lux at 5m



Version: SL015 DF486 Issue 6



Thorne & Derrick
+44 (0) 191 410 4292
www.cablejoints.co.uk