Milwaukee MX Fuel

Trial of an electric tower light as an alternative to traditional diesel-powered solutions

Organisations	Galliford Try, Milwaukee
Research Period	28th March – 15th April 2022

What is the MX Fuel Tower Light?

The MX Fuel is a portable portable tower light that can be used inside or out. It provides up to 27,000 lumens of area lighting and is powered by a redlithium ion battery.

The key features include:

- High-definition light output up to 27,000 lumens in AC and up to 20,000 lumens in DC mode
- The ability to manoeuvre the light heads in multiple orientations to direct light to where it is needed
- Two large all-terrain wheels providing portability across wet and uneven terrain
- Integrated motorised mast which allows the light to be set up quickly
- Extendable up to 3.10 metres
- Can withstand up to 55km/h of wind
- Sealed battery box to protect batteries from the elements
- Integrated application to customise, track and manage the light from a mobile device.
- Built-in charger provides the ability to charge the battery in AC mode

Trial on two East Midlands sites

The MX Fuel tower light was trialled on two Galliford Try sites in the East Midlands, RAF Coningsby and Nelson Court. The Coningsby project involves construction of a flight simulator and single living accommodation blocks. The Nelson Court project involves the construction of student accommodation in Nottingham. The unit was trialled for 1-week at Nelson Court and 2-weeks at RAF Coningsby.

SPECIFICATIONS

	MXF TL-601
Bulb type	LED
Max. output AC high / medium / low (Lumens)	27,000 / 14,000 / 7,000
Max. output DC high / medium / low (Lumens)	20,000 / 10,000 / 5,000
Max. run time AC mode (h)	Endless
Max. run time DC mode (h)	3/6/10
Max. mast height (m)	3.1
IP rating	55
Integrated charger	Yes
Weight with battery pack (kg)	48.0
Kit included	1 x MXF XC406 Battery pack, Integrated Charger, No kitbox or bag supplied
Article number	4933471845 (110 V) / 4933471846 (240 V)

Impressions of the Site Teams

Initial impressions from the teams on the two projects are as follows:

Pros

- Battery powered unit means no diesel/petrol emissions
- Easy to transport around the site
- Compact and easy to store
- Provides reasonable light coverage

Cons

- Less height than a traditional tower light, meaning that multiple units may be required for larger sites.
- Installer suggested that 10-hours of charging would be required to use the unit on full power for 3-hours, meaning that it would need to be plugged in during periods of heavy use.