A picture containing light

Description automatically generated with medium confidence

**VULKAAN Retro-fit LED Gear Tray**

**PATENT PENDING**

**Product Description**

The VULKAAN is an LED retrofit and universal gear tray that is designed to replace two fluorescent tubes in most watertight luminaires in a marine environment. It boasts a unique and rapid magnetic fixing system, which is tested and proven to withstand the full rigor of a marine environment, including the full range of vibrations that a ship experiences from the deck to the bow thruster room. The VULKAAN typically produces slightly more light than the existing fluorescent tubes but uses 75% less energy. It has a specialist diffuser with optics that are designed to project the light in a batwing spread whilst removing any glare. The steel frame performs as a heat sink for the LED whilst also giving it rigidity and structure to maximize life expectancy, holding the light output at an incredibly high level over its 8.5-year life at 24/7 use.

Diagram

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![Logo, company name

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**Designed and Manufactured in the United Kingdom**

**Specification**

**UK**

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| **VULKAAN |** LED Retrofit Gear Tray | | |
| Wattage (***WW***) | 11W (***11***) | 22W (***22***) |
| Voltage/Hz | 220-240V, 50/60Hz | |
| Lumens/W | 165lm/w | |
| Light Colour (***YY)*** | 3000K (***WW***), 4000K (***40***), 5000K (***50***), 6,500 (***65***) | |
| CR Index | CRI 80+ | |
| Protection Class | Installed inside marine existing luminaire | |
| Dimensions (mm) | 565 x 88 x 42 | 1175 x 88 x 42 |
| Fixing/Mounting | Vibration resistant magnetic fixture | |
| Construction/Finish | White powder coated steel | |
| Life (hours) | 72000 (LED) 100000 (driver) | |
| Operating Temperature | -20ᵒC - +65ᵒC | |
| Warranty | 5 years | |
| **Product Code** | TGT***WWYY*** | |