# PANELUX GEN III

The Panelux Gen III is an ultra high efficiency, fully sealed, rugged LED light fixture with autonomous integrated intelligence designed for extreme environments.



| Light Source: | |
|---|---|
| Light Source: | 120 x Luxeon LED |
| Light Output: | 17,000 lm nominal |
| LED Efficacy: | 160 lm/W nominal |
| Lamp Power: | 120W |
| Operating Life: | > 60,000 hrs L90 Projected L70 > 250k hrs |
| Colour Temp: | White 5000K nom. |
| Colour Rendering: | 70 CRI |
| Output: | No UV or IR |
| Dimming: | 0-100% |
| **Power Supply:** | |
| Power Supply: | Integrated within fitting |
| Power Factor: | 98% throughout dimming |
| Supply Efficiency: | ~98% |
| Input Power: | 136W  (125W @ 24V AC) |
| Input Voltage: | 240V AC (or 24V AC/DC) |
| THD | <20% |
| MTBF | 3,500,000 hrs @ 25°C |
| Connector: | IP68 LTW Type B |
| Environmental: | |
| Surge Protection: | Varistor 1.2kA 28J |
| Ambient Temp: | -40°C to 50°C |
| Operating Temp: | 61°C at 25°C ambient |
| Fixture Efficacy: | 125 lm/W Typical |
| Rating: | IP66 |

## Control:
Embedded within each fixture is an autonomous controller that interacts with nearby fittings to optimise power savings while maintaining excellent illumination. No additional control system is required.

Optional Sensing of:
Forklifts – RF Beacon
General Motion - Microwave
Ambient Temperature
Ambient Light
Hazardous Vapour

## Applications:
Service Station Forecourts, Under Canopy, Food Processing, Tunnel Lighting, Car Parks, Coolstore, General Industrial Lighting.

## Installation:
Flush mount or cavity mount options.
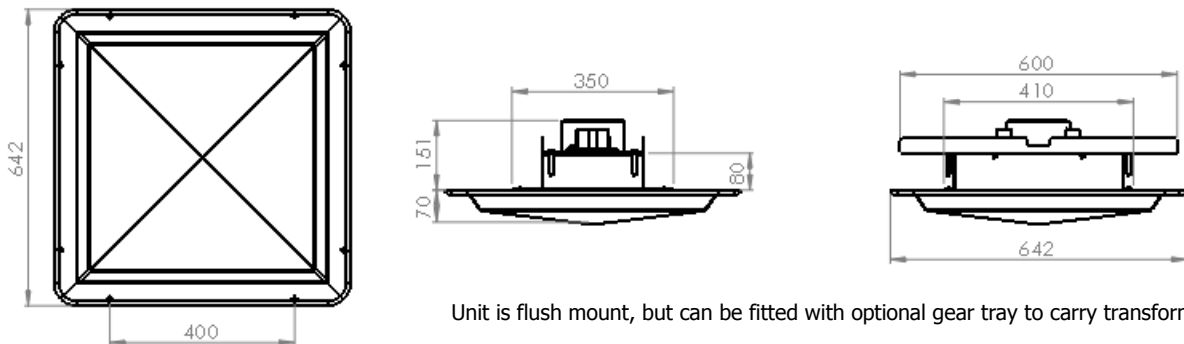
## Mechanical:
The housing is fully corrosion resistant in Aluminium & Stainless Steel with a design life of 20 years.

Body material:    Aluminium

Length / Width : 640 x 640mm

Weight: Approx 6.0kg

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Unit is flush mount, but can be fitted with optional gear tray to carry transformer

## Features

**Highly Efficient:** 17,000 lumens at 135W for 125lm/W fixture efficacy.

**Extreme Operating Life:** > 60,000 hrs at 90% lumen maintenance with MTBF of 3,500,000 hrs at 25°C.

**Extereme Operating Conditions:** Runs down to -40°C with instant start. Internal temperature monitoring and compensation.

**Plug and Play:** Self contained, self configuring network. No supporting cabling or infrastructure required. Provides data transport for additional sensors.

**Forklift proximity detection:** Senses forklift proximity and illuminates a working area around the forklift. Static or fully dynamic (under motion).

**Occupancy Sensing:** Integrated microwave sensor option allows adaptive lighting strategies and occupancy monitoring.

**Daylight Harvesting:** System wide detection of ambient light conditions reduces amount of "fill in" lighting required.

**Task Tuning:** Individual (or groups) of luminaires can maintain different target light levels to suit tasks being perform in their areas.

**Zone Control:** Luminaires can be grouped into zones for grouped control strategies (for example, loading bay vs aisle racking)

**Addressable:** Luminaries are uniquely addressable for unique control strategies (or sensor monitoring) independent of electrical wiring.

**Continuous Dimming:** Light level from 0-100% in 200+ steps for smooth lighting transitions. Ramp rates fully programmable.

**Safe:** No glass, mercury, UV or IR. No hazardous waste – recyclable.

**Future Proof:** Meets or exceeds DesignLights Consortium Intelligent Controls requirements 2016

**Local Support: Designed & Manufactured in New Zealand**