

**binay**  
**PowerLED Cold Room Luminaire**

***BINAY's PowerLED Cold Room Luminaires are a long-life, low-power, solid-state solution ideally suited for low temperature Cold Room applications such as cold storages, freezers and large-scale refrigeration***

Cold Rooms (used for large- and medium-scale deep-freezing applications, such as in the freezing of food products) have very specialised lighting requirements due to the low temperature and high moisture content present in such environments.

LED lighting is **most ideally suited** for such applications, due to the following main benefits:

- **LED performance does not diminish in cold temperatures (unlike other lamps – in fact, the light output *increases* as the temperature drops – by up to +10% at -20°Centigrade)**
- LEDs use much less energy and **radiate little or no heat** with the light output, **and so reduce refrigeration load**
- LEDs light instantly in the cold – other lamps (mercury, sodium or metal halide) can take up to 10 minutes to strike
- LEDs have a much longer life than conventional lamps, and so maintenance costs are much lower.

BINAY Cold Room Luminaires are ideal for commercial cold rooms, food processing centers, hotels, restaurants, high moisture areas and any location that requires a healthy environment. The totally sealed housing of the fixture maintains ceiling integrity and protects against infiltration of particles and airborne bacteria.



**BINAY Model 24L PowerLED Cold Room Luminaire**

**Features of BINAY Model 24L PowerLED Cold Room Luminaires**

- *Construction: Rust-proof and corrosion-resistant powder-coated all-aluminium housing, with stainless steel hardware (to combat the high moisture in the cold room environment)*
- *Designed to IP65 ratings, to prevent moisture ingress and condensation*
- *Electrical control gear design is with passive IC-based current control circuitry for high reliability; the use of an external (remote) centralised low voltage power supply system ensures that it will not be affected by extreme low temperatures*
- *Designed to operate at temperatures of -40 degrees Celsius*
- *A designed life of 15 years (comes with a five year warranty, subject to BINAY's standard terms and conditions)*
- *Total system power consumption of 35 watts only*
- *Total source lumens: 2880 Photopic lumens (equates to 5500 Scotopic visually effective lumens)*



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