

DHL Australia

Delivering the green message



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PROJECT AT A GLANCE

Project Type

Energy efficient lighting and controls

Location

Tullamarine, Melbourne, VIC

Solution Overview

- ECS Managed Lighting System
- Altitude T5 fluorescent lighting
- MIRO 4® reflectors

CUSTOMER BENEFITS

- 23% energy saving with new energy efficient 6 x 54 W Altitude T5 fittings
- reduced maintenance costs with longer lasting fixtures
- Complete integrated MLS lighting control system with AV interaction
- A complete automated facility with no switches for lighting
- increased lighting levels in warehouse with fixtures installed at 12 m mounting heights



DHL's new facility in Tullamarine utilises a complete ECS Managed

Lighting System to control the office lighting and energy efficient ECS Altitude T5 fluorescent light fittings in the warehouse.

DHL recently expanded operations by constructing a new facility in Tullamarine. The new building incorporates a multi-level office space with a large 10,000 m² warehouse attached.

The project involved design, documenting and commissioning of an ECS Managed Lighting System and efficient Altitude T5 fluorescent fittings.

ECS support throughout the construction and installation stage ensured the project ran smoothly and on schedule.

ECS congratulates DHL on its commitment to sustainability and we look forward to working closely with DHL on future projects.



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“The support provided by ECS within the time frame of the project, particularly design and commissioning, allowed for a smooth transition on installation.”

—Helen Kavanagh,
Property projects manager



Efficient Lighting & Controls

Lighting throughout the facility is automatically controlled via an ECS MLS lighting control system, removing the need for staff to manually control lighting.

A direct one-for-one replacement of existing designed 400 W metal halide high bay fittings with ECS 6 x 54 W Altitude T5 fixtures gives a guaranteed 23% energy saving. By using a MIRO 4® reflector, with reflectance efficiency of 94.2% at a surface to mounting height ratio of 0.7, these fittings were mounted at a 12 metre mounting height with 10 metre spacing between.



> DHL warehouse lit with ECS Altitude T5 light fittings.



> ECS Altitude T5 light fitting.

A commitment of an average maintained 160 lux level was required for the warehouse space with instant strike up ability. Initial light levels are in excess of 230 lux with a designed average maintained level of 176 lux over a 24000h life span. Furthermore, multiple high output T5 temperature-optimised lamps have no warm up or cool down period allowing for instantaneous switching.



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Left: Lighting control uses a MLS Pir detector in a DHL boardroom.
right: MLS microwave detector, located in a ceiling tile.

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