

IPD Changes Are Coming

Are you informed and do you know what this means for your business?

WHAT IS ILLUMINATION POWER DENSITY (IPD)?

Illumination Power Density defines the maximum allowable power consumption in watts per square metre (W/m²) to illuminate different space types under the Australian National Construction Code (NCC). The purpose of this is to provide a set of minimum energy efficiency standards for lighting in Australia for new and refurbished buildings.



STATE ENERGY EFFICIENCY SCHEMES

All state based energy efficiency programs (ESS, VEU, REES and EEIS) require participants to comply with IPD in order to create carbon certificates in commercial lighting activities, even in retrofit environments.

- IPD has been part of the NCC for a long time, however focus has tightened on allowable power for lighting in the 2019 revision.
- Light fittings of insufficient efficacy will not meet the new IPD requirements
- Only light fittings with lower colour temperatures down to 3500K and those with motion and daylight sensors will provide additional capacity to comply with the new IPD standard.

WHY IS IPD RELEVANT TO ME?

Updates to the NCC were released in May 2019 which introduced changes to IPD requirements. On May 1st 2020, these changes become binding and include:

- A significant reduction in the allowable power consumption for lighting.
- Promotion of warmer colour temperatures (CCT) to facilitate human wellbeing.
- Incorporation of motion and daylight sensors.
- Recognition of high Colour Rendering Index (CRI)

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HOW DO EMERALD PLANET'S PRODUCTS HELP ME?

Using our latest, ultra-efficient products will mean you never have to worry about being IPD compliant, even in the trickiest retrofit environments. Designed to meet and exceed the specific requirements of the Australian energy efficiency market, our latest technology LEDs feature ultra high efficacy, motion and lux sensors and switchable tri-colour.

UNI SERIES LED BATTENS

With switchable tri-colour & sensors



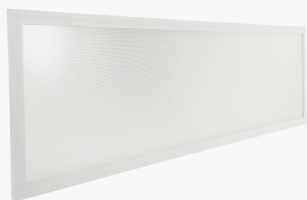
Allowable **Emerald Planet Uni Series LED Batten** fittings compared with an inefficient LED Batten alternative.

	Wattage	Efficacy	CCT	Sensor	Max fittings
Inefficient LED Batten	40	100	5000	No	Only 15
Uni LED Batten	15	166	4000	Yes	Up to 73

**Table figures are based on a typical carpark setting*

VANGUARD LED PANELS

With remote controlled sensor & switchable tri-colour



Allowable **Emerald Planet Vanguard LED Panel** fittings compared with an inefficient LED Panel alternative.

	Wattage	Efficacy	CCT	Sensor	Max fittings
Inefficient LED Panel	40	75	6000	No	Only 25
Vanguard LED Panel	17	141	4000	Yes	Up to 93

**Table figures are based on a typical large office setting*

SONAR LED HIGH BAY

With remote controlled sensor



Allowable **Emerald Planet Sonar LED High Bay** fittings compared with an inefficient LED High Bay alternative.

	Wattage	Efficacy	CCT	Sensor	Max fittings
Inefficient LED High Bay	150	100	5000	No	Only 21
Sonar LED High Bay	70	190	5000	Yes	Up to 64

**Table figures are based on a typical wholesale storage setting*

For further information or advice regarding IPD compliance, contact Emerald Planet today.