

## NuVo® range

300K Lighting Solutions has successfully combine the energy efficiencies of LED technology with the safety and cost improvements of their award winning connex range. Together with some unique features, this enables the NuVo® range to be the most resource efficient industrial lighting solution available.

The patented connex base allows lighting to be removed/ replaced for any routine task (e.g. cleaning) without the need for isolation in a matter of minutes. Utilising a system of maintaining a stock of rotatable spares can enable the change-over to be completed immediately, which removes a potential safety hazard without affecting your scheduled work compliance.

## NuVo® PI features

### Superior performance materials

The NuVo® lens is made from a polymer much more durable than standard poly carbonate typically found in other fittings and deemed the only one tough enough for use in the NuVo® range.

It is highly resistant to the effect of “etching” which results in lens discolouration.

### Protection from the environment

All aluminium components are coated with either a 2 pack epoxy coating or powder coating depending on the model; this gives durable protection to ensure years of service which is absolutely essential given the long life of the other components.

### Truly “Game Changing” features and functions

The NuVo® PI incorporates a range of features, enabled by the development of the most technological advanced LED fitting available on the market today.

The NuVo® PI is based on the standard NuVo® range but have been fitted with a range of sensors to enable the 32 bit processor to manage/monitor/report not only all on-board functions but also monitor/report on its surrounding environment.

Being able to monitor and report wirelessly any issues (including but not limited too containment build up on the lens), removes the need for periodical inspections strategies and enables the implementation of condition based strategies. The level of integration and the way information is presented to personnel is fully user configurable.

### Durability

Only 316 grade stainless steel fasteners are used in the construction (both internally and externally) of the entire NuVo® range. This reflects our drive to deliver the best product possible by utilising the best components available.



NuVo® PI Luminaire – P/N CTLF10-STD-GP-STD-STD



### Options available

Two options are available for base construction; either a Nylon 6 glass filled suitable for general use, or a cast 316 Grade Stainless Steel base suitable for more heavy duty applications (*Note: only stainless can be selected if opting for the die-cast body option*).

To view videos outlining additional functions, visit [www.300k.com.au/nuvo.html](http://www.300k.com.au/nuvo.html)

For further information  
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[300k.com.au](http://300k.com.au)

| Specifications                   |  |
|----------------------------------|--|
| Name                             | NuVo® PI LED Luminaire Fitting   |
| Part Number                      | CTLF03-XXX-XXX-XXX-XXX   |
| Product Description              | NuVo® Poletop Infrastructure LED Luminaire   |
| Certification                    | AS/NZS 60598.2.1 including AS/NZS 60598.1  |
| Power (W)                        | 35W  |
| Input Voltage                    | 100 – 240 VAC  |
| Rated Frequency                  | 50 – 60 Hz   |
| IP Rating                        | IP66   |
| LED Current (Constant Current)   | 0mA – 350mA max  |
| Number of LEDs                   | 30   |
| Colour                           | Cool White   |
| Colour Temp (CCT)                | 5000K  |
| Luminous Output (lm)             | 150 l/W  |
| LED Life Span                    | 50,000 + hours   |
| Maximum Ambient Temperature (°C) | 55 +   |
| Minimum Ambient Temperature (°C) | -40  |
| Dimmable                         | Yes  |
| Warranty                         | 3 year standard full replacement guarantee<br>5 year extended warranty available<br>10 year L70 output guarantee |

| Construction Material                |  |
|--------------------------------------|--|
| Body Construction (Moulded/Die-cast) | Nylon 6 with 10% glass / Aluminium alloy AL360 |
| Heat sink / Fascia                   | Aluminium Alloy AL360                          |
| Protective coating                   | Powder coating                                 |
| Main Lens Material                   | Polyamide (Grimalid TR90UV)                    |
| Sacrificial Lens Material            | Polyamide (Grimalid TR90UV)                    |
| External Fasteners                   | 316 Stainless steel                            |
| Internal Fasteners                   | 316 Stainless steel                            |

| Standard Sensors                     |  |
|--------------------------------------|--|
| <b>Barometer</b>                     |  |
| Range 50 – 115kPa                    | 50 – 115kPa                              |
| Resolution 0.15kPa                   | 0.15kPa                                  |
| Accuracy (-20°C to 85°C) +/- 1KPa    | +/- 1KPa                                 |
| Operating Temperature -40°C to +85°C | -40°C to +85°C                           |
| <b>Accelerometer</b>                 |  |
| Sensitivity                          | 2g, 4g, 8g                               |
| Motion Recognition Levels            | Shock, Vibration                         |
| Bandwidth                            | 125Hz                                    |
| Maximum Shock                        | 5000g                                    |
| Operating Temperature                | -40°C to +85°C                           |
| <b>Accelerometer</b>                 |  |
| Range                                | -55°C to +125°C                          |
| Accuracy                             | +/- 0.5°C                                |
| <b>Optical Sensors</b>               |  |
| Ambient Light Sensor                 | Detects background light/sunlight levels |
| LED Management Sensor(s)             | Detects faulty LED chips                 |
| LENS Management Sensor(s)            | Detects dirty LENS                       |
| <b>Wireless Communications</b>       |  |
| Frequency                            | 2.4GHz                                   |
| Protocol/configuration               | Zigbee based mesh network                |
| Range (line-of-site)                 | 100m                                     |

| Dimensions                          |              |
|-------------------------------------|--------------|
| Product Weight (kg)                 | 6            |
| Packing Dimensions (L x W x H) (cm) | 71 x 26 x 17 |
| Pieces per Box                      | 1 piece      |
| Gross Weight (kg)                   | 6.5          |
| Net Weight (kg)                     | 6            |

| Model  | Coupling                      | Body construction   | Array  | Base construction   |
|--------|-------------------------------|---|--|---|
| CTLF10 | STD                           | GP<br>AL<br>SS  | STD<br>MF  | STD<br>SS<br>LE   |
| Key    | STD—Standard contact coupling | GP—Glass filled Nylon body<br>AL—Aluminium die-cast body<br>SS—Stainless Steel (available on special request). Stainless steel heat sink also available on request subject to MOQ | STD—Standard cool white array<br>MF—Marine friendly long wave length amber LED chips | STD—Glass filled nylon base<br>SS—Cast 316 grade stainless steel base<br>LE—Less the base |