

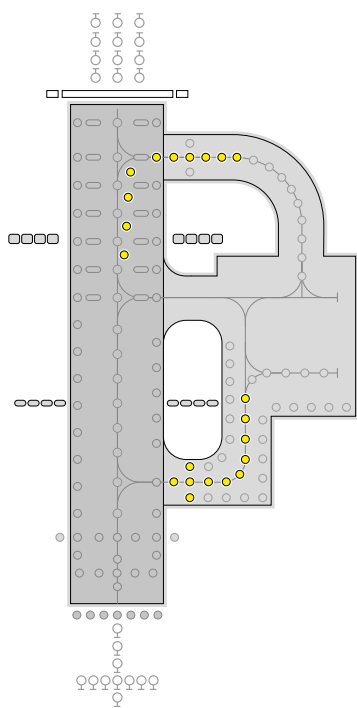
Tungsten halogen technology



# ZA280 ZA281

## Taxiway Centreline & Stopbar

High intensity bi-directional inset light



### Features

- Body casting manufactured from aluminium alloy for lightness, strength and durability
- Standard ATG body styles available
- Long life lamps (objective life of 1500 hours at full brilliancy)
- Prism removal and replacement achieved without the need for adhesive or sealants
- A window blank is available for uni-directional applications
- Lamp by-pass options available
- Suitable for direct installation in a ZM109, ZM181, ZM203i seating pot with only two point fixing
- Pre-focused optics to simplify maintenance procedures
- Generic with ZA180(I)EC fittings runway centreline fitting
- Light channel within 5mm of grade
- Natural anodised finish (as standard), powder coated NATO green or golden yellow
- IMM available on request

### Compliance with standards

- **FAA** AC 150/5345-46C L-852A,B,C,D
- **ICAO** Annex 14
- **NATO** STANAG 3316
- **CAA** CAP168
- **BS3224** Part 5 inset fittings

### Application

For use in all weather operation installations up to ICAO category III systems for straight and curved sections.

- inset taxiway centreline
- stop-bar lights

### Options

- ZM109 8" seating pot (wet)
- ZM181 8" seating pot (dry)
- ZM203 (I) (dry)
- ZM203 (I) (wet)
- 12" and 15.5" PSA & FAA L868 cannister adaptors
- ZS023 sighting device
- ZM107, ZM181, ZM203(I) installation jigs

### Electrical supply

Suitable for use in 6.6A airfield lighting circuits normally supplied from 1 x 45W, 1 x 65W or 1 x 100W isolating transformer. Power consumption is either 49W or 105W.

### Packaging data

Net weight	3kg
Gross weight	3.5kg
Carton size	230mm(w) x 230mm(d) x 146mm(h)

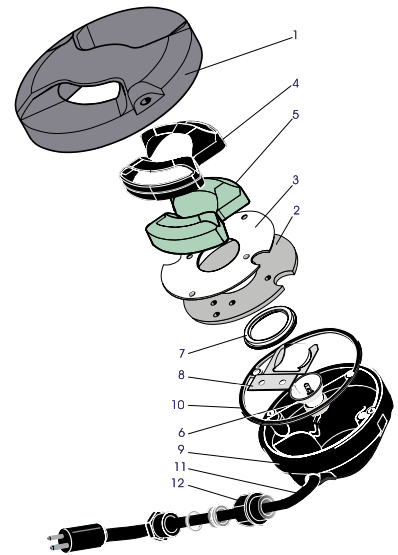
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ZA280  
ZA281

# Components

- 1 Body Casting
- 2 Prism Clamp
- 3 Prism Clamp Gasket
- 4 Prism Gasket
- 5 Glass Prisms
- 6 Reflector Lamp
- 7 Lamp Gasket
- 8 Lamp Retaining Spring
- 9 Bottom Cover
- 10 Bottom Cover Gasket
- 11 'B' Type Plug Lead
- 12 Cable Gland Assembly

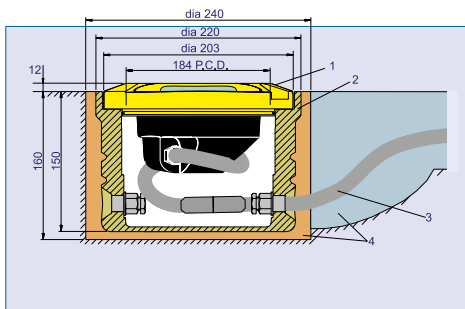


## Typical installation methods

Typical installation Methods

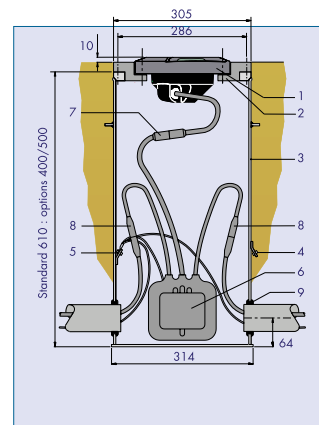
- IEC - In a ZM203i seating pot
- Standard - In a ZM109(wet only) or ZM181 seating pot (wet or dry)
- In an FAA base can type L868  
Installation onto an FAA L-868 seating cannister is achieved by means of a suitable 12" or 15.5" adaptor.

ZA280 I Installed In ZM203(I) Seating Pot (Dry)



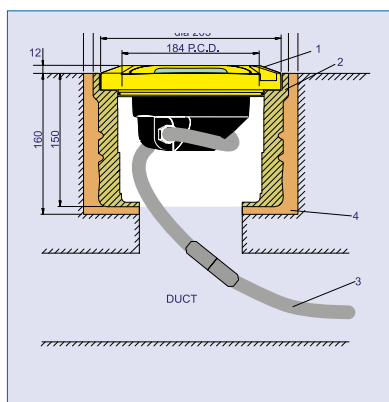
- 1. ZA280 I Fitting
- 2. ZM203 I Seating pot - DRY
- 3. Secondary lead
- 4. Grout

ZA280 Installed on FAA L-868 Base



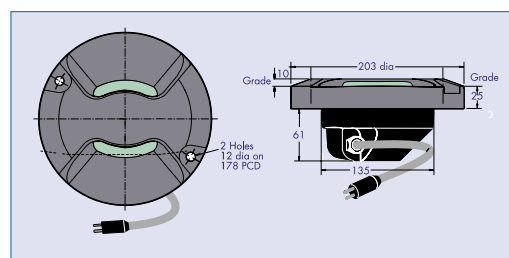
- 1. ZA280 Fitting
- 2. 12" Mounting adaptor
- 3. FAA L-868 Base
- 4. Outer earth terminal (optional)
- 5. Inner earth terminal (optional)
- 6. Isolating transformer
- 7. Secondary connectors
- 8. Primary connection
- 9. Grommet

ZA280(I) Installed In ZM203(I) Seating Pot (Wet)



- 1. ZA280 I Fitting
- 2. ZM203 I Seating pot - WET
- 3. Secondary lead
- 4. Grout

General Arrangement



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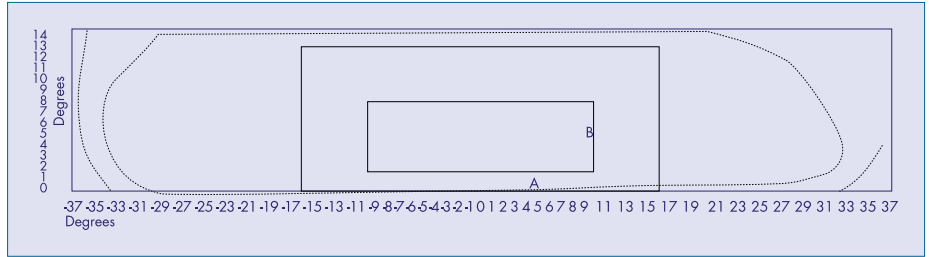
# Photometric performance

## Taxiway Centreline: Straight/Offset CAT III

ZA280 Green/Yellow/Red  
 Main Ellipse Intensity Measurements (Candelas)  
 Average 266  
 Min. average 200  
 Max (B) 326  
 Min (A) 165

### Nominal Lamp Details

Power 49.0 Watts / 105.0 Watts  
 Current 6.6 Amps  
 Type SLC008065 - 49 Watts  
 SLC008072 - 105 Watts  
 ICAO CAP168  
 Annex 14 Fig 6A/ Fig 2.13

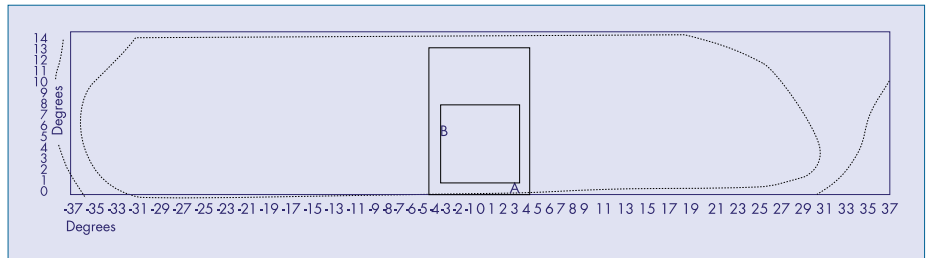


## Taxiway Centreline: Straight CAT III

ZA280 Green/Yellow/Red  
 Main Ellipse Intensity Measurements (Candelas)  
 Average 255  
 Min. average 200  
 Max (B) 304  
 Min (A) 165

### Nominal Lamp Details

Power 49.0 Watts  
 Current 6.6 Amps  
 Type SLC008065  
 ICAO CAP168  
 Annex 14 Fig 6A/ Fig 2.13

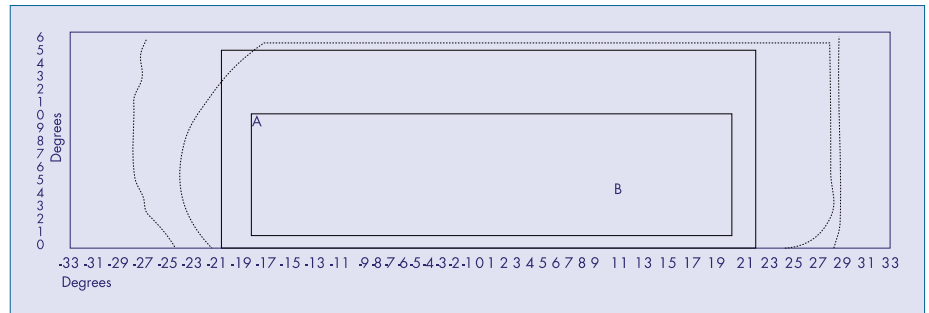


## Taxiway Centreline: Curved CAT III

ZA280 Green/Yellow/Red  
 Main Ellipse Intensity Measurements (Candelas)  
 Average 241  
 Min. average 100  
 Max (B) 301  
 Min (A) 109

### Nominal Lamp Details

Power 49.0 Watts  
 Current 6.6 Amps  
 Type SLC008065  
 ICAO CAP168  
 Annex 14 Fig 6A/ Fig 2.15

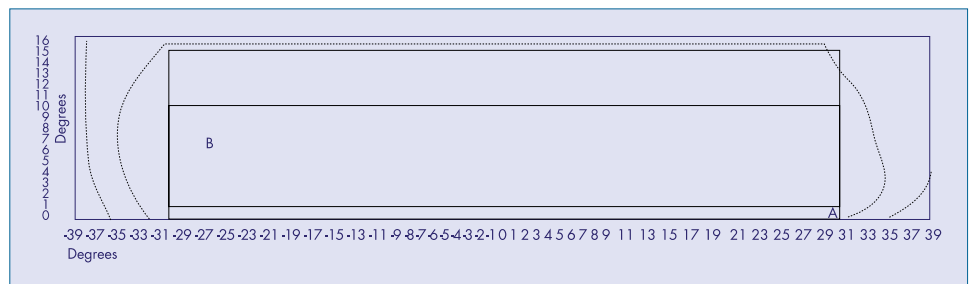


## Taxiway Centreline: FAA (Wide) CAT III

ZA280 Green/Yellow  
 Main Ellipse Intensity Measurements (Candelas)  
 Average 261  
 Min. average 100  
 Max (B) 335  
 Min (A) 84

### Nominal Lamp Details

Power 49.0 Watts  
 Current 6.6 Amps  
 FAA AC No.150/5345-46B L-852 D  
 Type SLC008065



# Specification

**TYPE:** Green/Yellow/Red high intensity bi-directional taxiway and stop/clearance bar light for centreline straight and offset sections.

The taxiway/stop/clearance bar high intensity bi-directional inset light shall comply with ICAO Annex 14 for use in category I,II and III all weather operations as well as CAP168, BS3224 Part 5, FAA and STANAG 3316.

**TYPE:** Green/Yellow/Red high intensity bi-directional taxiway and stop/clearance bar light for centreline curve sections.

The taxiway/stop/clearance bar high intensity bi-directional inset light shall comply with ICAO Annex 14 for use in category I,II and III all weather operations as well as CAP168, BS3224 Part 5, FAA and STANAG 3316.

Fittings shall be of modular design with the main casting manufactured in aluminium alloy, suitably protected against corrosion and finished in either golden yellow or NATO green.

The optical system shall comprise of a 49W or 105W 6.6A cold reflector lamp and lampholder. Two glass prisms shall be accurately located in the main casting, without

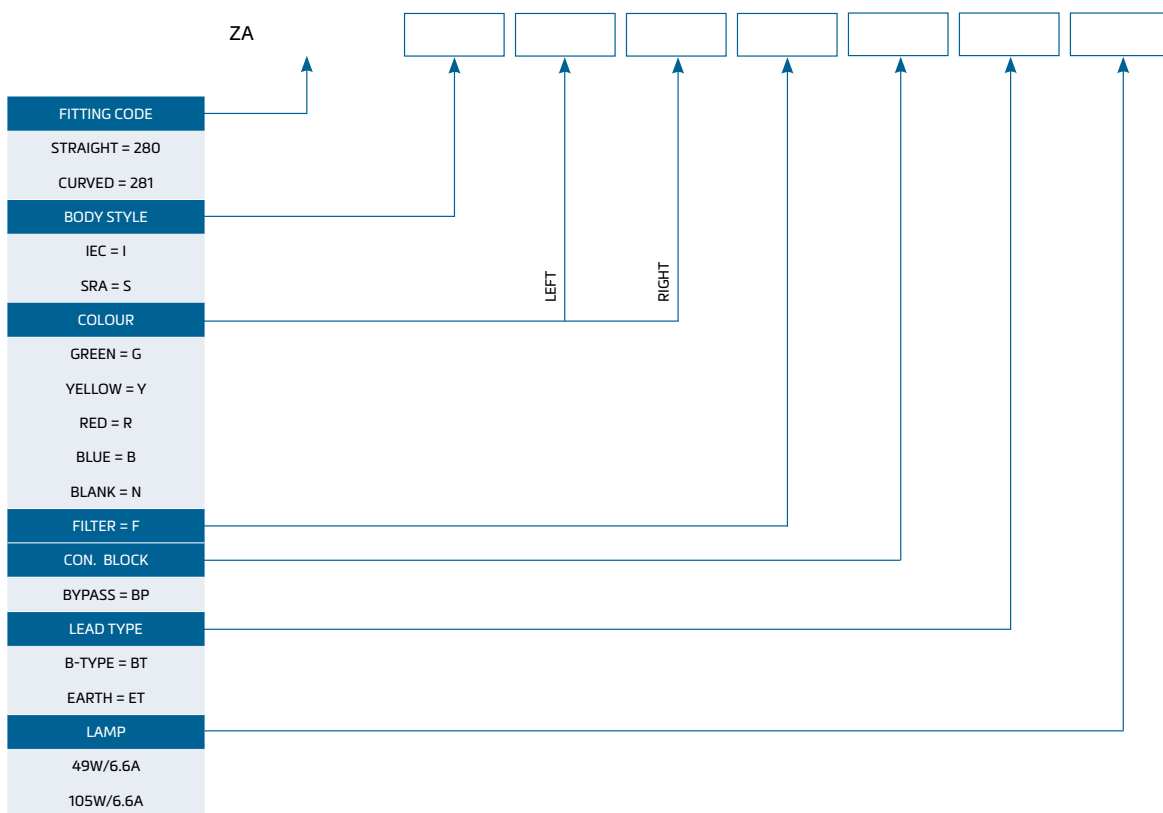
the need for additional adhesives or sealants, to direct the light beams such that no re-focusing is required on installation, maintenance or in service. The fittings shall be versatile so that requirements for both narrow and wide light distribution met. Uni-directional applications shall be satisfied by the provision of a window blank.

Lamp replacement shall be easily effected from the bottom of the fitting. The objective lamp life at maximum intensity shall not be less than 1500 hours on a constant current series circuit.

The light fitting shall have an upper surface forming a smooth sloped face projecting not more than 10mm above the pavement surface. The fitting shall resist all stresses imposed by impact, rollover and static loads of present day aircraft without damage to the fitting or to aircraft and vehicle tyres.

The fitting shall be suitable for installation in the pavement surface in a cast aluminium seating pot (atg ZM109) or for dry installation applications (atg ZM181). Other mounting adaptors shall be provided to allow installation on FAA L868 canisters.

# Ordering Codes



**EXAMPLE:** [ ZA 280 ] [ I ] [ G ] [ G ] [ F ] [ BP ] [ BT ] [ 49 ]  
 = STRAIGHT FITTING + IEC BODY + GREEN + GREEN + FILTER + BYPASS + B-TYPE + 49W LAMP



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