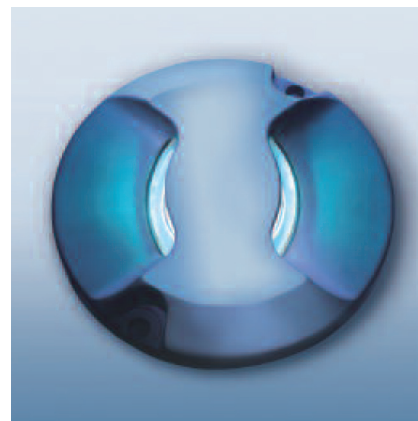
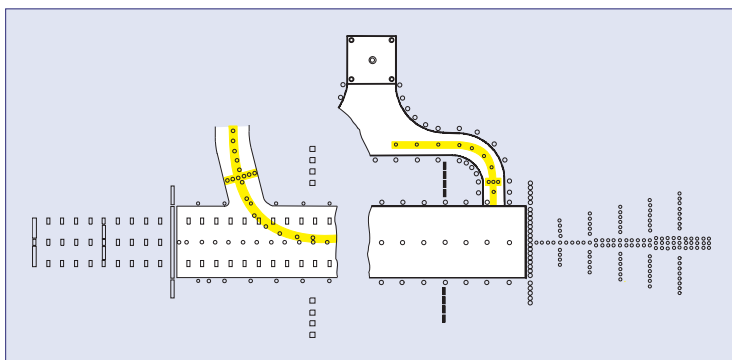


# ZA280/281(I) Taxiway Centreline & Stopbar

high intensity bi/uni-directional inset lights



## features

- **Body casting manufactured from aluminium alloy for lightness, strength and durability**
- **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**
- **Low profile (10mm)**
- **Generic with ZA180(I)EC fittings runway centreline fitting**
- **Light channel within 5mm of grade**
- **Standard ATG body style available**
- **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, figs 1.1, 2.12,13,14,15,16
- **NATO** STANAG 3316
- **CAA** CAP168, figs 6A/12,13,14,15,16 & table 6A/1
- **BS3224** Part 5 inset fittings

## application

High intensity, inset taxiway centreline and stop-bar lights for use in all weather operation installations up to ICAO category III systems.

## 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

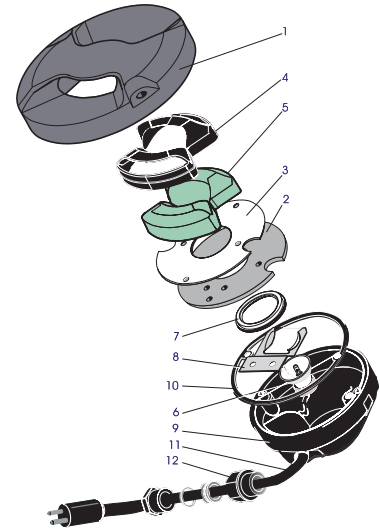
Suitable for use in 6.6A airfield lighting circuits normally supplied from 1 x 45W, 1 x 65W or 100W isolating transformer. Power consumption is either 49W or 105W.

## packaging data

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

## components

1	Body casting, natural anodised, golden yellow or NATO green		green half filter	SLC19159
2	Prism clamp straight (ZA280) SLC21268 or curved (ZA281) SLC21269		yellow half filter	SLC19160
3	Prism clamp gasket straight (ZA280) SLC33072 or curved (ZA281) SLC33074	6	reflector lamp 49W or 105W (red light)	SLC19158 SLC08065 SLC08072
4	Prism gasket (2) SLC33071	7	Lamp gasket	SLC33064
5	Glass prisms (1 or 2) green full filter SLC19156 yellow full filter SLC19157 red full filter SLC19155 blank for prism aperture SLC40102	8	Lamp retaining spring	SLC32039
		9	Bottom cover	
		10	Bottom cover gasket	SLC33073
		11	'B' type plug lead	SLC13001
		12	Cable gland assembly	SLC21114/5/6



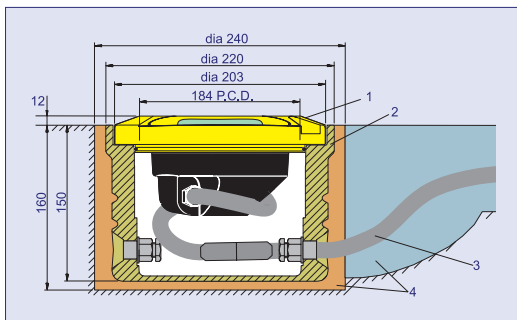
## typical installation methods

Typical installation Methods

- **Standard - In a ZM203i seating pot**
- **IEC - In a ZM109 or ZM181 seating pot (wet or dry)**
- **ATG - In an FAA base can type L868**

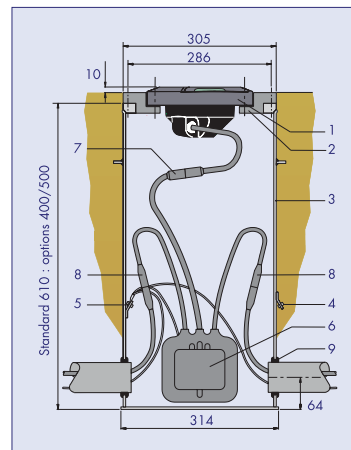
Installation onto an FAA L-868 seating cannister is achieved by means of a suitable 12" or 15.5" adaptor.

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



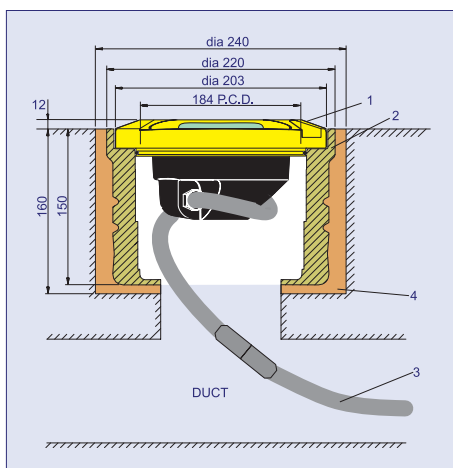
- |                              |                   |
|------------------------------|-------------------|
| 1. ZA280 I Fitting           | 3. Secondary lead |
| 2. ZM203 I Seating pot - DRY | 4. Grout          |

ZA280 Installed on FAA L-868 Base



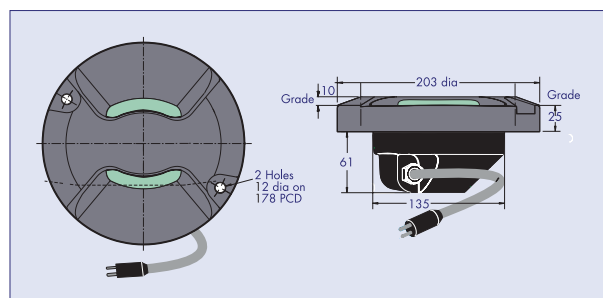
- |                                    |                          |
|------------------------------------|--------------------------|
| 1. ZA280 Fitting                   | 6. Isolating transformer |
| 2. 12" Mounting adaptor            | 7. Power convertor       |
| 3. FAA L-868 Base (one piece)   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

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



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

### General Arrangement



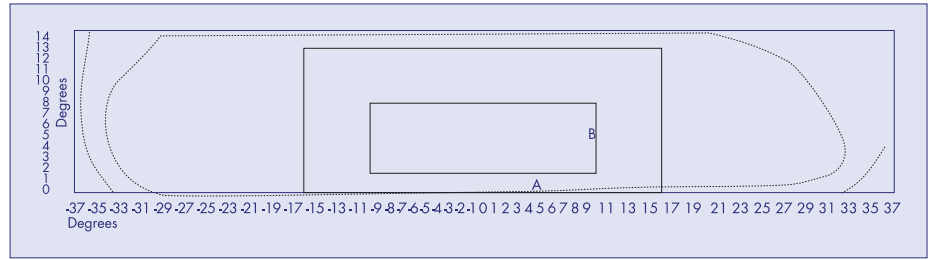
# photometric performance

## 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

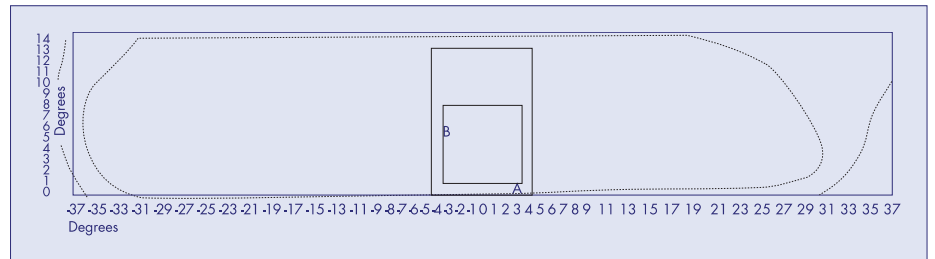


## Taxiway Centreline: Straight CAT III

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

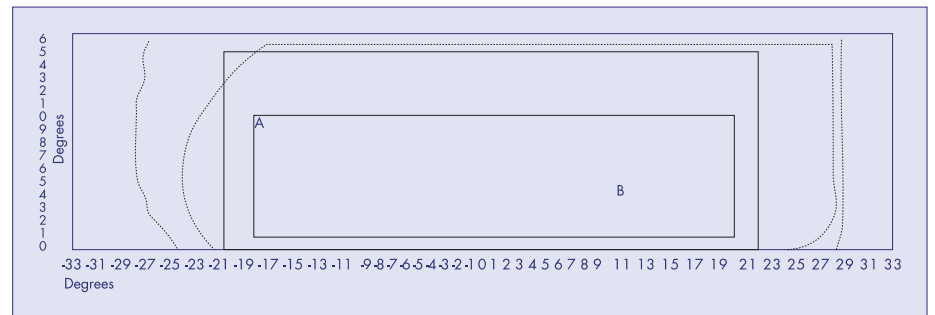


## Taxiway Centreline: Curved CAT III

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

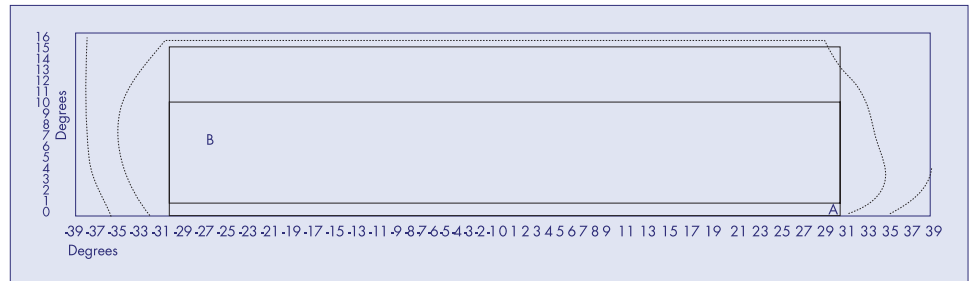


## Taxiway Centreline: FAA (Wide) CAT III

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



	IEC STANDARD	COLOURS	BYPASS	LAMP
ZM280		G	Y	49w
ZA291		Y	N	105w*
		R		
		B		
		N		
		No light (Prism blank)		

\* Stopbar applications only  
 NB Body casting is supplied with naturally anodised finish. Other painted finishes are available on request.

