



# TLI81

## Application

- RGL – runway guard lights (high intensity in configuration B)
- RWY – runway edge lights (usable as stopway lights)

## Classification

- FAA AC 150/5345-46; Class 2, Mode 1\*, Style 3
- IEC TS 61827: Style 3, Size 3
- \*neplatí pro návěstidla napájená 2,2 A

## Accordance with

- Engineering Brief No. 67D
- IEC TS 61827
- ICAO Annex 14, Vol. I  
Figure: A1-1b, A2-9, A2-10, A2-20
- EASA CS-ADR-DSN  
Figure: U-1B, U-13, U-14, U-24
- TP-312  
Figure: A-1(b), B-9, B-10, B-17

## Properties

- designed for simplicity and serviceability
- light diameter size 12" (304 mm)
- easy winter maintenance of the aerodrome thanks to 6,35 mm protrusion
- light depth in shallow base 68 mm
- simple aluminium construction with stainless steel fasteners with a watertight IP68
- no negative slope before prisms
- non-glued, easily replaceable prisms
- velve for watertightness test
- only one type of prism for all light series TLI50, TLI80 and TLI81
- optimal parts made of borosilicate glass
- operation with any CCR designed in accordance with IEC or FAA requirement
- excellent efficiency and colour characteristics due to the use of LED technology
- light output is variable as for halogen lamps, according to the requirements of Engineering Brief No. 67D
- lifetime of at least 110 000 h operation
- efficient maintenance thanks to the common parts of the light series TLI50, TLI80 and TLI81
- additional heating possible with ARC (arctic kit), according to the requirements of Engineering Brief No. 67D
- optional MONITORING with function to disconnect the light from the transformer (series loop) when LED failure is detected, according to the requirements of Engineering Brief No. 67D



## Resistance to

- temperature  $-55 \div +55$  °C and thermal shock
- humidity, snow, ice and water, watertight IP68
- salt fog, solar and UV radiation
- static and shear load, recurrent mechanical and hydraulic impact according to the IEC TS 61827
- vibration  $20 \div 2\,000$  Hz with acceleration 10/15 G
- shock wave 10 kV on 5 kA, according to the requirements of Engineering Brief No. 67D
- EMC according to the requirements of IEC 61000-6-2 and IEC 61000-6-4

## Power source

- power lead with termination FAA AC 150/5345-26, L-823 Type II, Class A, Style 6
- isolation transformer 6,6 A or 2,2 A at the output from the secondary line (power of the isolating transformer according to the power input of the light)

## Mounting

- shallow bases, size 12" (002 560, 002 561, 002 566, 002 567)

## Mechanical parameters

- weight (cardboard box)  $\pm 7,4$  kg
- dimensions (cardboard box) 320x320x115 mm

## TLI81



## Ordering code

TLI81 1 - RWY /R - W - S2 - M  
 TLI81 1 - RGL - Y - S6 - M

## light fixture group

- 1 - unidirectional (RGL, RWY)
- 2 - bidirectional (RWY)

## light fixture function

- RGL – runway guard lights (high intensity in configuration B)
- RWY - runway edge lights (usable as stopway lights)

## toe-in (defined for first specified color)

- /L - toe-in left
- /R - toe-in right
- \*toe-in is only required for unidirectional lights RWY
- \*for bidirectional RWY not noted (first color always has toe-in left)

## beam color(s)

- R - red
- W - white
- Y - yellow

## power supply

- S6 - power supply 6,6 A
- S2 - power supply 2,2 A

## other specifications

- \*code for „other specification“ must be written in alphabetical order
- ARC - arctic kit (additional heating)
- M - MONITORING
- SPC - on-demand specification

## Notes:

- spaces in examples above used for clarity only
- optional parameters to be used if necessary

## Ordering code examples:

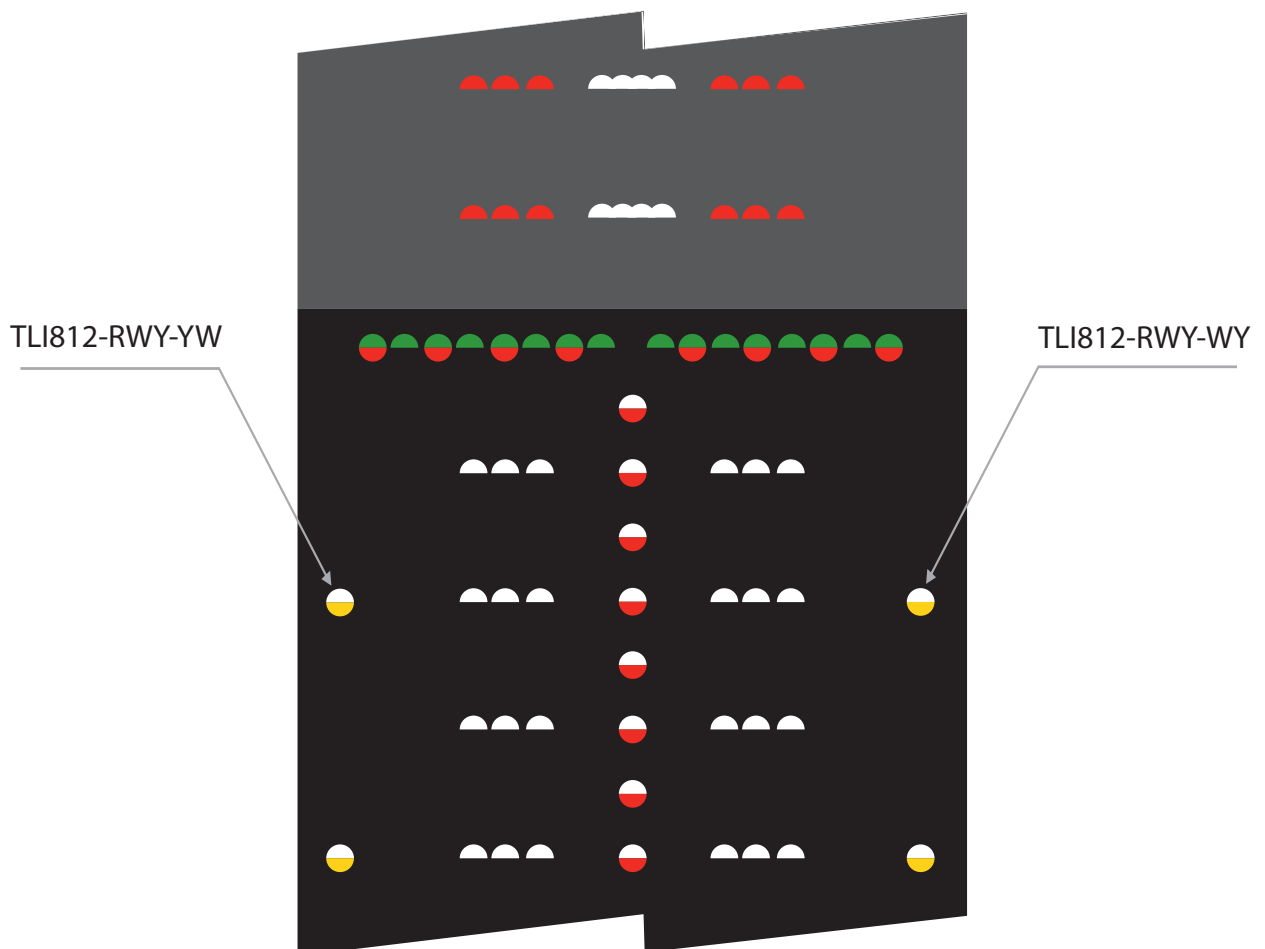
TLI811-RWY/L-W-S6  
 unidirectional runway edge light with toe-in left,  
 white, one power lead, power supply 6,6 A

TLI812-RWY-WY-S2  
 bidirectional runway edge light, white-yellow,  
 one power lead, power lead 2,2 A

TLI811-RGL-Y-S6-M  
 unidirectional runway guard lights (high intensity in configuration B),  
 yellow, one power lead, power supply 6,6 A, MONITORING  
 with function disconnect the light from the transformer  
 (series loop) when LED failure is detected

**Toe-in**

- applies when using shallow bases installed parallel to the RWY centerline
- when using shallow bases installed with toe-in to the RWY centerline, lights without toe-in shall be used



# TLI81



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