

Application

- APP – approach centre line and crossbar light
- ASR – approach side row light
- END – runway end light
- THR – threshold light
- THREND – threshold and runway end light
- THRWB – threshold and wing bar light

Classification

- FAA AC 150/5345-46; Class 2, Mode 1*, Style 3
 - IEC TS 61827: Style 3, Size 3
- *does not apply to 2,2 A powered lights

Accordance with

- Engineering Brief No. 67D
- IEC TS 61827
- ICAO Annex 14, Vol. I
Figure: A1-1b, A2-1, A2-2, A2-3, A2-4, A2-8
- EASA CS-ADR-DSN
Figure: U-1B, U-5, U-6, U-7, U-8, U-12
- TP-312
Figure: A-1(b), B-1, B-2, B-3, B-4, B-8

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 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 prims for all light series TLI50, TLI80 and TLI81
- optical parts made of borosilicate glass
- operation with any CCR designed in accordance with IEC or FAA requirements
- 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 of operation
- efficient maintenance thanks to the common parts of the TLI50, TLI80 and TLI81 series
- additional heating possible with ARC (arctic kit), according to the requirements of Engineering Brief No. 67D
- 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



Resisted to

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

Power source

- power cable 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

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

Mechanical parameters

- weight (of one pack) ± 7,4 kg
- dimensions (of one pack) 320x320x115 mm

TLI80



Ordering code

TLI80 3 - THREND/L - GR - S2 - M
TLI80 1 - APP - W - S6

light fixture group

- 1 - unidirectional (APP, ASR, END, THR, THRWB)
- 2 - bidirectional (THREND)
- 3 - bidirectional, separate power leads (THREND)

light fixture function

- APP - approach centre line and crossbars light
- ASR - approach
- END - runway end light
- THR - threshold light
- THREND - threshold and runway end light
- THRWB - threshold and wing bar light

toe-in (defined for first specified color)

- convergence must be specified only for unidirectional lights
- /L - left toe-in
- /R - right toe-in
- *required for THREND
- *optional for ASR, THR, THRWB

beam color

- G - green
- R - red
- W - white

lamp power

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

other specifications

- *code for „other specification“ must be written in alphabetical order
- ARC - additional heating
- M - MONITORING
- SPC - specifications on request

Note:

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

Ordering code examples:

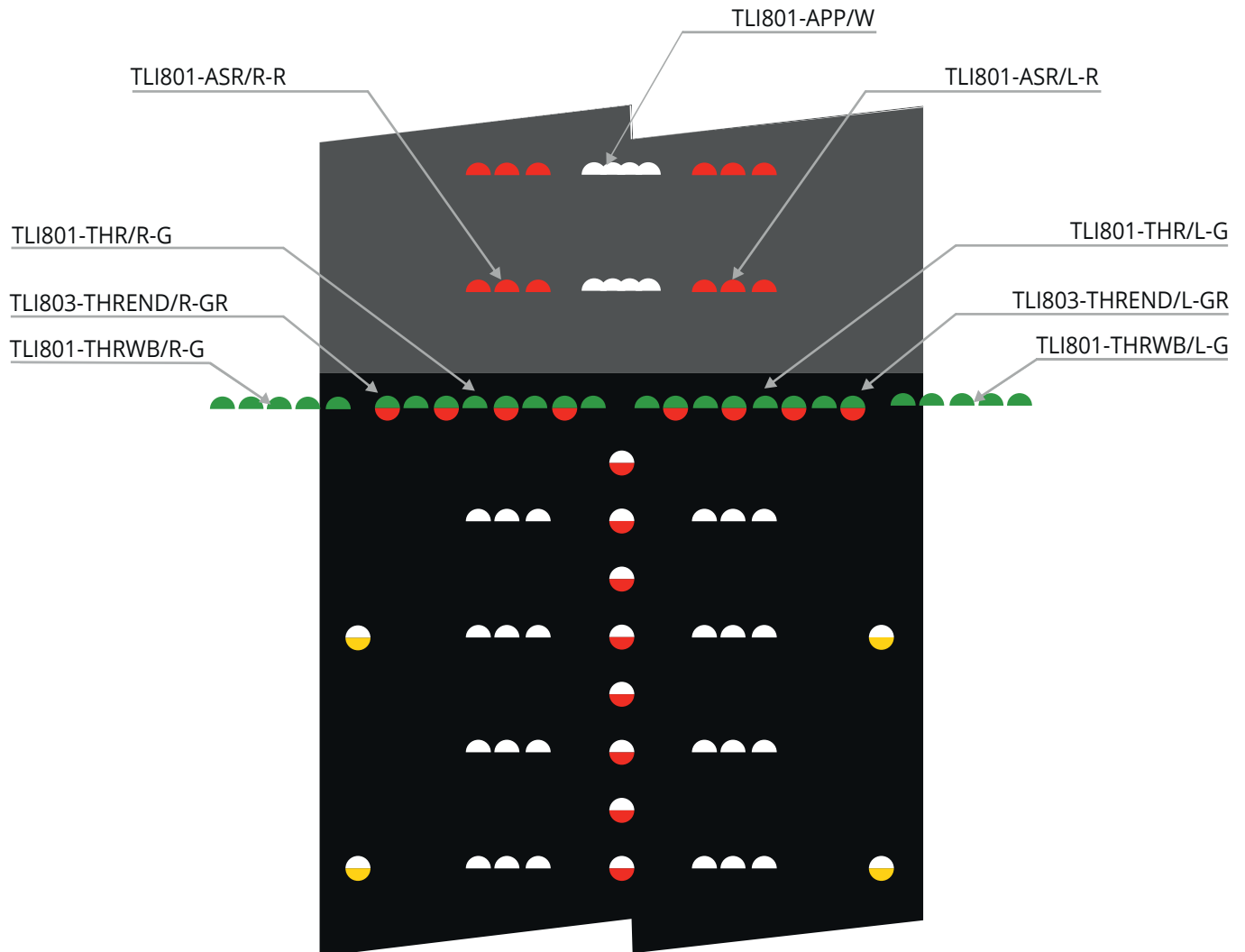
TLI801-END-R-S6
 unidirectional runway end light, red,
 one power cable, power supply 6,6 A

TLI801-THRWB/R-G-S2
 unidirectional threshold wing bar light,
 with right toe-in, green,
 one power cable, power supply 2,2 A

TLI803-THREND/L-GR-S6-M
 bidirectional threshold and runway end light, with left
 toe-in, green/red, two power cables
 (with separate power supply), power supply 6,6 A,
 with MONITORING function to disconnect the light from
 the transformer (serial loop) when LED failure is detected

Toe-in

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



TLI80



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