

Εύκαμπτη ταινία led / Flexible led strip

**TORA**

Κωδικός / Art. No. : 502061

24Vdc

14.4 Watt/m

2700K

CRI80+

Step<5

210 led/m

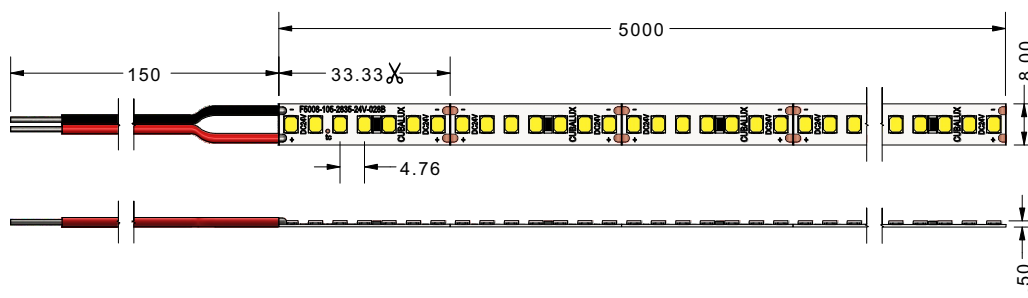
IP20

**3** ΧΡΟΝΙΑ ΕΓΓΥΗΣΗ  
YEARS WARRANTY

**Τεχνικά χαρακτηριστικά / Technical data**

|                                                                                                            |                                                                |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Κατανάλωση ενέργειας / Power consumption                                                                   | 14.4 kWh/1000h/m                                               |
| Ονομαστική Ισχύς / Rated wattage                                                                           | 14.4 W/m                                                       |
| Τάση λειτουργίας / Operating Voltage                                                                       | 24Vdc                                                          |
| Ρεύμα λειτουργίας / Typical operating Current                                                              | 0.6 A/m                                                        |
| Κατηγορία προστασίας / Protection class                                                                    | III                                                            |
| Ρύθμιση έντασης φωτισμού / Dimming                                                                         | PWM (Dali / 0-1...10V / DMX512 / Phase cut / RF / Push Button) |
| Φωτεινή απόδοση / Luminous Efficacy                                                                        | 129 lumen/watt                                                 |
| Φωτεινή ροή / Typical Luminus Flux                                                                         | 1857 lumen/m                                                   |
| Γωνία φωτισμού / Led beam angle                                                                            | 120°                                                           |
| Χρώμα / Color                                                                                              | Λευκό θερμό / Warm White                                       |
| Θερμοκρασία χρώματος / Typical CCT                                                                         | 2700 Kelvin                                                    |
| Ανοχή χρώματος /Color Tolerance                                                                            | 5 SDCM                                                         |
| Βαθμός χρωματικής απόδοσης / Typical CRI                                                                   | >80                                                            |
| Ενεργειακή κλάση της περιεχόμενης πηγής φωτισμού/<br>Energy efficiency class of the contained light source | E                                                              |
| Διάρκεια ζωής στους 25 °C / Rated life time at 25 °C                                                       | 30.000 ώρες/hours                                              |
| Βαθμός στεγανότητας / Ingress protection                                                                   | IP20                                                           |
| Λειτουργία σε θερμοκρασία περιβάλλοντος / Ambient working Temp. ta                                         | -20...+50°C                                                    |
| Διαστάσεις (ΜxΠxΥ) / Dimension (LxWxH)                                                                     | 5000 x 8 x 1.5(mm)                                             |
| Μέγιστο μήκος λειτουργίας / Max. operating Length                                                          | 5 μέτρα / 5 meters                                             |
| Αριθμός Led / Led units                                                                                    | 210 led/μέτρο / 210 led/meter                                  |
| Απόσταση μεταξύ led / Distance between led                                                                 | 4.76 mm                                                        |
| Σημείο κοπής / Cutting point                                                                               | Ανά 7 led (33.33mm) / Per 7 led (33.33mm)                      |
| Συσκευασία / Packing                                                                                       | 5 μέτρα / 5 meters                                             |
| EAN                                                                                                        | 5206704013987                                                  |
| Εγγύηση / Warranty                                                                                         | 3 χρόνια / 3 years                                             |

**Σχέδιο - Διαστάσεις / Drawing - Dimensions**



**IP-20** LED  
PCB  
Κατάλληλη για ξηρούς εσωτερικούς χώρους με χαμηλή συγκέντρωση αιωρούμενων σωματιδίων.  
Suitable for dry interiors with low concentration of suspended particles.

## Light efficiency:

**129 Lumen/Watt**

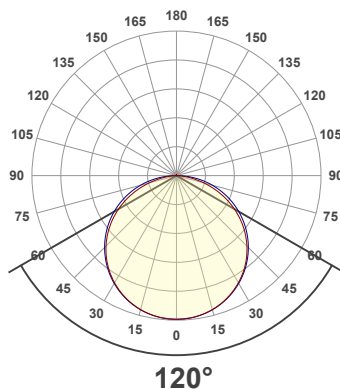
## Light quality:

**CRI: 82.0**

## Color temperature:

**2700 K**

**Output: 1857 Lumen Power consumption: 14.4**



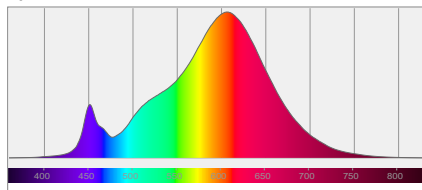
## Product name:

**TQRA 14.4Watt 210led 24V IP20  
CRI80 2700K**

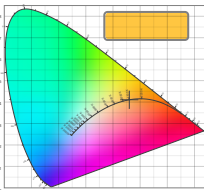
## Item number:

**502061**

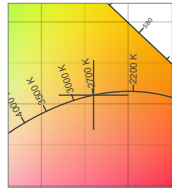
## Spectral distribution



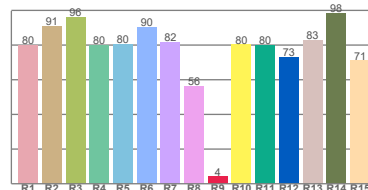
## Color coordinates



## White color point

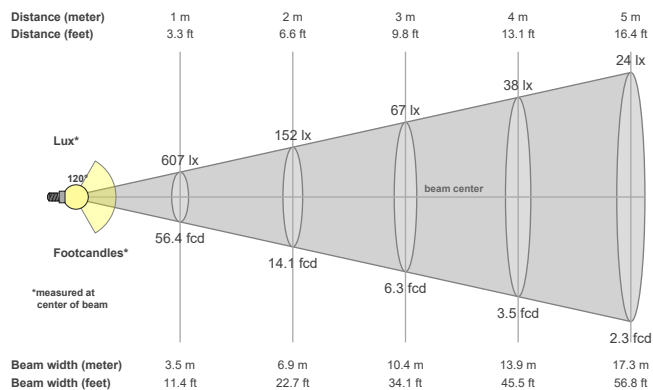


## CRI R values



| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Color coordinate cie 1931 | Color coordinate cie 1931 | Color coordinate | Color coordinate | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|------------------|------------------|---------------------------------|
| CCT               | CRI                   | CRI R9        | TM30 Rf        | TM30 Rg     | CQS                 | x                         | y                         | u                | v                | Δuv                             |
| 2700 K            | 82.0                  | 4.1           | 85.4           | 94.4        | 82.2                | 0.460                     | 0.411                     | 0.263            | 0.352            | 0.0018                          |

## Beam details



## Beam angles

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% |
|----------------|-----------------|-------------------|
| 120°           | 165.3°          | 176.1°            |

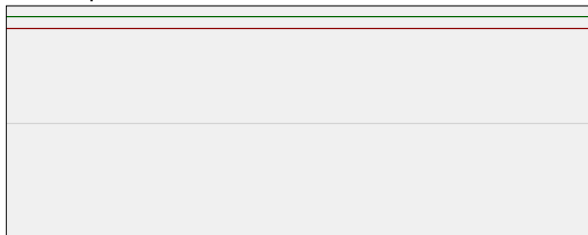
## Beam intensities

| Peak intensity | Int. ratio in 120° cone | Int. ratio in 90° cone |
|----------------|-------------------------|------------------------|
| 607 cd         | 76.4%                   | 51.2%                  |

## Beam intensities from 1-20m

| 1m      | 2m      | 3m     | 4m     | 5m     | 6m     | 7m     | 8m     | 9m     | 10m    | 11m    | 12m    | 13m    | 14m    | 15m    | 16m    | 17m    | 18m    | 19m    | 20m    |
|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.3ft   | 6.6ft   | 9.8ft  | 13.1ft | 16.4ft | 19.7ft | 23ft   | 26.2ft | 29.5ft | 32.8ft | 36.1ft | 39.4ft | 42.7ft | 45.9ft | 49.2ft | 52.5ft | 55.8ft | 59.1ft | 62.3ft | 65.6ft |
| 607lx   | 152lx   | 67lx   | 38lx   | 24lx   | 17lx   | 12lx   | 9lx    | 7lx    | 6lx    | 5lx    | 4lx    | 4lx    | 3lx    | 3lx    | 2lx    | 2lx    | 2lx    | 2lx    | 2lx    |
| 56.4fcd | 14.1fcd | 6.3fcd | 3.5fcd | 2.3fcd | 1.6fcd | 1.2fcd | 0.9fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.1fcd |

## Power scope



| Power  | Power factor |  |
|--------|--------------|--|
| 14.4 W | 1.0          |  |

| Voltage | Current |  |
|---------|---------|--|
| 24.0 V  | 0.600 A |  |