



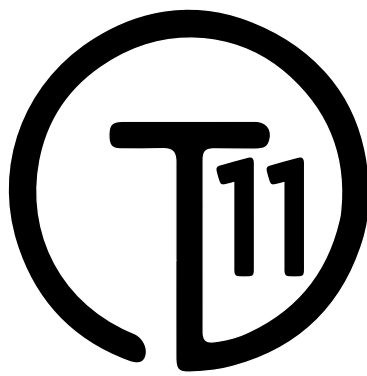
PROFILE™

FRESNEL™

PC™

MFS™

**ROBE®**



PROFILE™  
FRESNEL™  
PC™  
MFS™

**Harnessing the superb MSL™ (Multi-Spectral Light) colour concept with our revolutionary TE™ technology, the T11 generic collection brings you the same exceptional T-Series colour finesse, high-definition optics, and beam control all within one standard housing. With a choice of quick-change front lenses, T11 is the all-encompassing range of Profile, Fresnel, PC and MFS (Manual Follow Spot) that includes the following technologies:**

**MSL-TE™ 350W** - TRANSFERABLE ENGINE – Self-referencing, data capturing, rapid changing TE Multi-Spectral light source for cost-effective exchange or replacement, with adjustable CCT from 2.700K to 8.000K, CRI 95+ and over 12.000 lm fixture output

**DataSwatch™** - Fast selection of the most trusted colours & tones

**L3™** - (Low Light Linearity) Imperceptible 18-bit dimming for ultra smooth fade to black

**Cpulse™** - Special flicker-free management for all vision systems

**RCC™** - Robe Colour Calibration system

**MagFrost™** - Integral fast change frost filters

**AirLOC™** - (Less Optical Cleaning) technology greatly reduces the level of airborne particles drawn over the optical elements. This increases the overall performance, light quality and time between routine cleaning and maintenance

**Epass™** - Ethernet pass-through switch sustains Ethernet integrity when the fixture has no power, automatically maintaining network connectivity - on request

**REAP™** - Robe Ethernet Access Portal

Being specifically designed for noise-sensitive environments, T11, with its compact, single body interchangeable front-lens approach, provides maximum cost-effective flexibility. The MSL-TE™ sourced Profile, PC, Fresnel and MFS™ contain all the features top lighting designers demand. These include wide zoom ranges of 5-50° for the Profile or MFS™, and 5-60° for the PC and Fresnel; separate +/-green hue control channel; interchangeable 1° and 5° frosts; 4 individual plane shutter system with shutter lock; optional drop-in iris and gobo module with two rotating and three static gobos.

The variable CCT of 2.700K to 8.000K, tungsten emulation, and CRI up to 96 ensure T11s, with their exceptional light quality and control, will fit into any lighting design.

With fixture balancing ergonomically designed handle, manually operated intensity control, iris and sturdy tripod, the T11 MFS™, available separately or as an add-on kit, adds another dimension and capability to your T11 Profiles.

**Without compromise, the feature-packed T11 Series, with single integral lens tube, interchangeable front lenses and frosts, brings you greater generic flexibility than ever before.**



**L3™**  
LOW  
LIGHT  
LINEARITY

**DATASWATCH™**  
FAST SELECTION  
OF COLOURS  
& TONES

**350W**  
**MSL™**  
MULTI-SPECTRAL  
LED LIGHT SOURCE

PROFILE™  
FRESNEL™  
PC™  
MFS™



**CMY**  
**RGB**  
COLOUR MIXING

**VARIABLE**  
**CCT**  
2.700K - 8.000K



**CPULSE™**  
FLICKER  
**FREE**  
MANAGEMENT

PROFILE™  
FRESNEL™  
PC™  
MFS™

## Finally, the one body generic fixture solution you have been searching for is here!

Our unique T11 solves all your multiple luminaire challenges.



Building on the superb MSL™ (Multi-Spectral Light) colour concept and innovative TE™ technology, T11 brings you the same exceptional colour finesse, high-definition optics, wide-ranging zoom, and beam control all within one standard housing. With a choice of quick-change front lenses, T11 is an all-encompassing, cost-saving Profile, Fresnel, PC or FollowSpot.

The MSL-TE™ 350W LED Engine generates over 11.750 lm and with all advantages of cost, exchange or replacement, this technology provides identical colour characteristics, control, and responses of our phenomenally successful T series, giving absolute colour consistency across your T Series rig.

A virtually controlled CCT range of 2.700K to 8.000K, calibrated whites, and tungsten emulation gives precise control while we ensure skin tones are perfectly rendered due to T11's high TLCI and TM30-18 ratings and exceptional CRI of 95.

The profile features an extreme 10:1 ratio 5-50° zoom range within its compact 15 kg frame. The innovative manual shuttering system is both accurate and easy to use. The fixture comes with manually interchangeable frosts. Using our quick change MagFrost™ system, the 1° provides instant softening, with the 5° used for heavier applications.

Fitting the Fresnel lens gives you that classic style beam, while the PC lens provides a more defined beam. Both lenses create a manually operated 5-60° zoom, with the manually operated shutters providing barndoor ability for further beam control without the danger of them being easily disturbed. These are supplied with 5° MagFrost™ as standard.

An adaptation of the T11 Profile™, the T11 MFS™ (Manual Follow Spot) features a fixture balancing ergonomically designed handle, manually operated intensity control, iris and sturdy tripod. Our T11 MFS™ is available separately or as an add-on kit to your existing profiles. Highly suitable for schools, corporate events, or smaller theatres, it adds another dimension and flexibility to the T11 Series.

The unobtrusive T11 is specifically designed to operate in any noise-sensitive environment, with TV studio use enhanced via Cpulse™ flicker-free software and a dedicated plus and minus green channel control.

### T11 - The ultimately flexible generic solution!



#### Source

- Light source type: MSL-TE™ 350W LED engine (Patented)
- LED Engine output: 16.700 lm
- LED life expectancy: min. 40.000 hours
- Colour rendition: CRI: 95, CRI R9: 96, TM30-18 Rf: 92, TM30-18 Rg: 106, TLCI: 91
- Typical lumen maintenance: L70/B50 @ 40.000 hours
- Light source warranty: 4 years or 20.000 hours

#### Optical System

- Robe's proprietary optical design
- High-efficiency manual zoom with high definition optics:
  - T11 Profile - ratio 10:1, zoom range 5°- 50°
  - T11 Fresnel / PC - ratio 12:1, zoom range 5°- 60°
- Fixture total lumen output
  - T11 Profile: 12.000 lm (integrating sphere)  
9.500 lm (goniophotometer)
  - T11 Fresnel: 12.050 lm (integrating sphere)  
9.600 lm (goniophotometer)
  - T11 PC: 11.750 lm (integrating sphere)  
9.400 lm (goniophotometer)

#### Dynamic Effects and Features

- Colour mixing: CMY/RGB or RGBAL
- White light: Variable CCT 2.700K - 8.000K
- DataSwatch™ filters: pre-programmed 237 colours and tones including most used whites 2.700K, 3.200K, 4.200K, 5.600K
- Tungsten lamp effect: 750W, 1.000W, 1.200W, 2.000W, 2.500W lamp emulation for whites from 2.700K to 4200K (red shift and thermal delay)
- + - Green correction function
- Adjustable CRI: from 80 to 95+
- Manual framing shutters: framing shutters module with 4 individually positionable blades
- Optional drop-in module: motorised iris, 2 rotating and 3 static gobos
- MagFrost™ - magnetic paddle fast change system with 1° (Profile) or 5° (Fresnel/PC) frost for instant softening
- Manual zoom and focus
- Electronic strobe effect with variable speed up to 20 Hz, pre-programmed random strobe & pulse effects
- High resolution electronic dimming: 0-100%
- L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black
- Dimmer profile selection: Linear, Square law, Super Square law
- Cpulse™ - special flicker-free management for HD and UHD cameras, ready for 8K and 16K
- Extremely quiet operation suitable for all types of production in Theatre and TV.
- AirLOC™ - (Less Optical Cleaning) technology greatly reduces the level of airborne particles drawn over the optical elements. This increases the overall performance, light quality and time between routine cleaning and maintenance.
- Manual fader for dimmer control (T11 MFS)

#### Control and Programming

- Setting & Addressing: two-row LCD display & 4 control buttons
- Protocols: USITT DMX-512, RDM ArtNet, MA Net, MA Net2, sACN
- REAP™ - Robe Ethernet Access Portal
- Wireless CRMX™ technology from Lumen Radio - on request
- Epass™ - Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity - on request
- DMX Protocol modes: 8
- Control channels: 18, 9, 22, 6, 1, 24, 13, 28
- Variable CCT: 8 bit
- + - Green correction: 8 bit
- Colour mixing: 8 or 16 bit (internal 18 bit)
- Gobo indexing & rotation: 8 or 16 bit
- Iris: 8 or 16 bit
- Dimmer: 8 or 16 bit (internal 18 bit)

#### Rotating Gobos - T11 Profile

- 2x rotating glass gobos - supplied with optional drop-in gobo module
- Outside diameter: 26.8 mm
- Image diameter: 23.5 mm
- Thickness: 1.1 mm
- Max. thickness: 4.0 mm
- High temperature borofloat or better glass
- Patented slot & lock system for easy replacement of gobo

#### Static Gobos - T11 Profile

- 1x static glass gobo - supplied as standard including the gobo holder
- 3x static glass gobos - supplied with optional drop-in gobo module
- Outside diameter: 26.8 mm
- Image diameter: 23.5 mm
- Thickness: 1.1 mm
- Max. thickness: 4.0 mm
- High temperature borofloat or better glass
- Gobo holder R size: slot & lock system for easy replacement of gobos

#### Thermal Specification

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 90 °C (194 °F)
- Minimum operating temperature: -5 °C (23 °F)
- Total heat dissipation: max. 1125 BTU/h (calculated)

#### Electrical Specification and Connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50 / 60 Hz
- Power consumption: max. 420W
- Power connector in/out: Neutrik powerCON TRUE1 in/out
- DMX and RDM data in/out: Locking 5-pin XLR

- Ethernet port in/out: RJ45 for Embedded Epass™ switch 10/100 Mbps - on request

#### Approvals

- CE Compliant
- cETLus Compliant

#### Movement - T11 MFS

- Pan movement: 200°
- Tilt movement: 90°

#### Mechanical Specification

##### T11 Profile / Fresnel / PC

- Height: 493 mm (19.4")
- Width: 385 mm (15.15")
- Depth: 653 mm (25.7")
- Weight:
  - T11 Profile: 15.7 kg (34.6 lbs);
  - 16.9 kg (37.3 lbs) with optional drop-in gobo module
  - T11 Fresnel: 14.5 kg (32.0 lbs)
  - T11 PC: 15.3 kg (33.7 lbs)

##### T11 MFS

- Height: 458 mm (18.03")
- Width: 712 mm (28.03")
- Depth: 388 mm (15.27")
- Weight:
  - Manual FollowSpot: 3.7 kg (8.2 lbs)
  - Tripod: 6.5 kg (17.2 lbs)
  - Adaptor for tripod: 3.6 kg (7.9 lbs)

- Ingress protection rating: IP20

#### Rigging

- Mounting horizontally or vertically via mounting yoke
- Mounting points: M12 bolt
- Safety cable attachment point

#### Included Items

##### T11 Profile / Fresnel / PC

- User Manual
- Gel frame adaptor
- Gobo Holder R size with gobo (T11 Profile): 10980655
- Frost 1° (exchange) assembled: 10980578
- Frost 5° (exchange) assembled: 10980573

##### T11 MFS

- Drop-in manual Iris
- Tripod (min. height 60 cm, max. height 110 cm, black colour)
- Adaptor for tripod
- Spigot

#### Optional Accessories

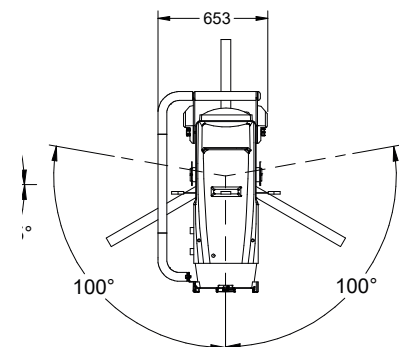
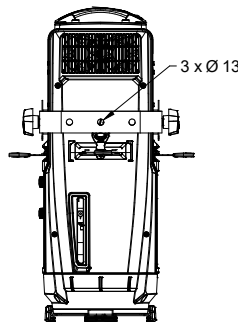
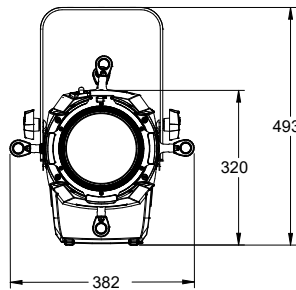
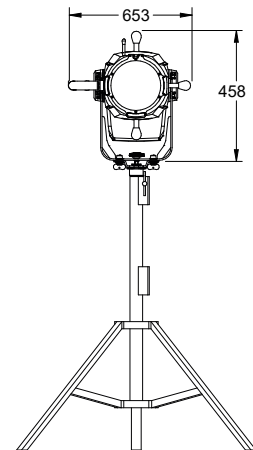
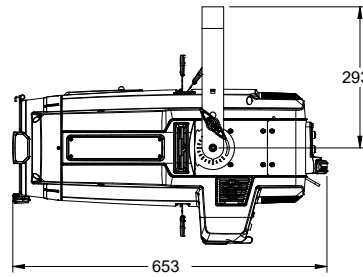
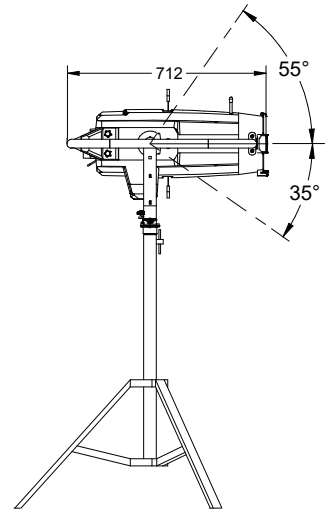
- T11 TE™ 350W Multi-Spectral LED Engine: 14080070
- T11 TE™ 350W TGW White LED Engine: 14080090
- T11 TE™ 350W DL White LED Engine: 14080089
- Doughty Trigger Clamp: 17030386/Wireless DMX external module: 10980127

- Safety wire 36 kg: 99011963
- T11 Profile lens module: 10980647
- T11 Fresnel lens module: 10980644
- T11 PC lens module: 10980645
- T11 Incline Adaptor: 10980853
- Pole operated yoke: 10980667
- Robin T11 MFS handles: 10980717
- Drop-in manual Iris: 10980677
- Frost 0.5° (exchange) assembled: 10980583
- Frost 3.5° (exchange) assembled: 10980668
- Frost 10° (exchange) assembled: 10980497
- Frost 20° (exchange) assembled: 10980574
- Frost 30° (exchange) assembled: 10980584
- Gobo Holder R size (T11 Fresnel/PC): 10980655
- Drop-in gobo and iris module: 10980649
- Hot-spot lens: 10980666
- Gel frame: 10980372
- Barndoor module: 10980349
- Top Hat 50° T11/TX1 black: 10980768
- Top Hat 30° T11 black: 10980701
- Half Top Hat 30° T11 black: 10980764
- T11 SoftBox Adaptor : 10980751
- T11 Cyc/Flood Light Module: 10980769
- Mains Cable powerCON TRUE1 In/Schuko, 2m, Indoor: 13052405
- Mains Cable powerCON TRUE1 In/US, 2m, Indoor: 13052406
- Daisy Chain powerCON TRUE1 In/Out, EU, 2m, Indoor: 13052439
- Mains Cable powerCON TRUE1 In/CEE 16A, 2m, Indoor: 13052445
- Mains Cable powerCON TRUE1 In/Open ended, 2m, Indoor: 13052407
- Daisy Chain powerCON TRUE1 In/Out, US, 2m, Indoor: 13052440
- Daisy Chain powerCON TRUE1 In/Out, EU, 5m, Indoor: 13052444
- Single Top Loader Case: 10120279
- Single Top Loader Trolley case: 10120281
- Dual Top Loader Case: 10120282
- Foam Shell: 20020425



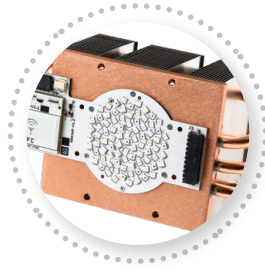
### Legal

- T11 Profile™, T11 Fresnel™, T11 PC™ & T11 MFS™ are Trademarks of Robe lighting s. r. o.
- T11 Profile™, T11 Fresnel™, T11 PC™ & T11 MFS™ are patented by Robe lighting s. r. o. and are protected by one or more pending or issued patents



## MSL™ Multi-Spectral LED Light source

The new revolutionary MSL-TE™ 350W LED self-referencing, data capturing, Multi-Spectral TRANSFERABLE ENGINE (Patented) permits rapid change for cost-effective exchange or replacement and provides a fixture output reaching 12.000 lumens (T11 Profile), high quality spectrum of CRI 95+, TLCI 91, adjustable CCT from 2.700K to 8.000K and additive colour mixing with CMY control mode.

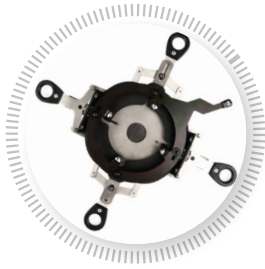


## CMY/RGB Colour Mixing

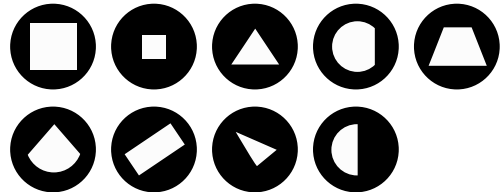


## Framing Shutters Module

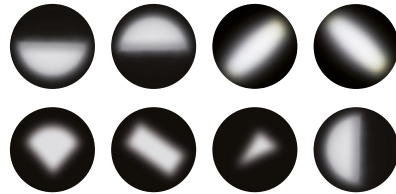
T11 features a manual, four-individual plane captive shutter module. A lock ensures blades remain firmly in position, perfect for high vibration locations such as cruise ships or fixed long-term installations.



T11 Profile™



T11 Fresnel™ / T11 PC™



## Drop-in Gobo/Iris Module

Optional combination drop-in Gobo/Iris module with two rotating and three static breakup gobos for increased creativity.



T11 Profile™ Static Gobos



T11 Profile™ Rotating Gobos



## True White Colours

Factory calibrated whites and colours via the new RCC™ Robe Colour Calibration system allow quick direct calling of whites of any colour temperature from 2.700K to 8.000K.



8.000 K



5.600 K



4.200 K



3.200 K



2.700 K

## Tungsten effect

The Halogen lamp mode provides emulation of 750W, 1.000W, 1.200W, 2.000W and 2.500W tungsten lamps. The dimmer channel initiates halogen lamp-like behaviour (red effect and thermal delay) for each lamp type during dimming.



Dimmer 100 %



Dimmer 80 %



Dimmer 50 %



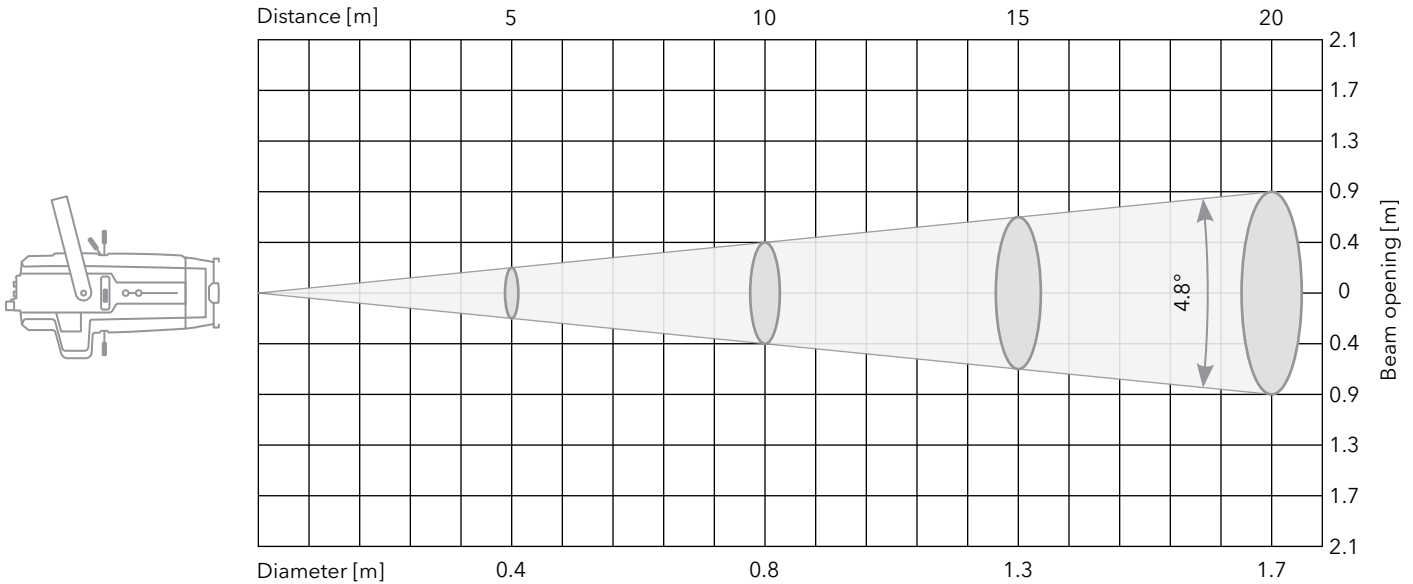
Dimmer 10 %

# T11 Profile

## Photometric report

Beam angle 4.8° - Min. zoom, CCT 5582K, CRI 78

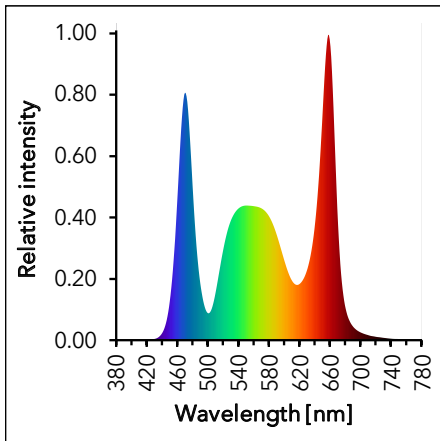
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 4.8°       | 4043 lm                                 | 3834 lm                              | 716200 cd    | 419 W |



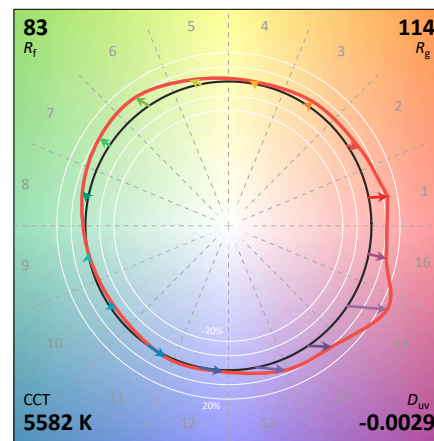
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m        | 10 m     | 15 m     | 20 m     | 30 m   | 40 m   | 50 m   | Total lumens |
|-------------------|------------|----------|----------|----------|--------|--------|--------|--------------|
| 5600 K            | 28648/2661 | 7162/665 | 3183/296 | 1791/166 | 796/74 | 448/42 | 286/27 | 3834         |
| 5600 K Quiet mode | 24351/2262 | 6088/566 | 2706/251 | 1522/141 | 676/63 | 380/35 | 244/23 | 3259         |
| 8000 K            | 28872/2682 | 7218/671 | 3208/298 | 1805/168 | 802/75 | 451/42 | 289/27 | 3864         |
| 4200 K            | 27834/2586 | 6959/646 | 3093/287 | 1740/162 | 773/72 | 435/40 | 278/26 | 3725         |
| 3200 K            | 25637/2382 | 6409/595 | 2849/265 | 1602/149 | 712/66 | 401/37 | 256/24 | 3431         |
| 2700 K            | 23096/2146 | 5774/536 | 2566/238 | 1444/134 | 642/60 | 361/34 | 231/21 | 3091         |

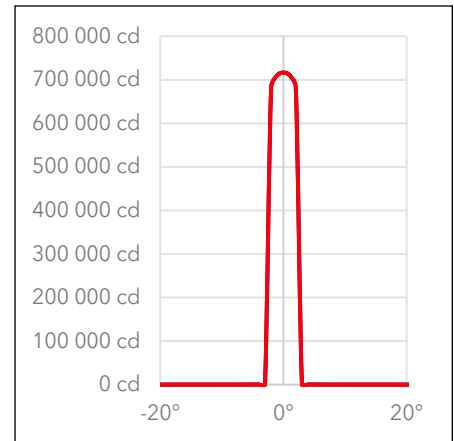
Spectrum



TM-30



Light distribution



|                            |            |         |
|----------------------------|------------|---------|
| Color temperature          | <b>CCT</b> | 5582    |
| Color Deviation from Black | <b>Duv</b> | -0.0028 |
| Color Coordinate CIE 1931  | <b>x</b>   | 0.3306  |
|                            | <b>y</b>   | 0.3340  |
| Color Coordinate           | <b>u</b>   | 0.2084  |
|                            | <b>v</b>   | 0.3157  |

|                              |                |     |
|------------------------------|----------------|-----|
| Color rendering index        | <b>CRI</b>     | 78  |
| Red component                | <b>CRI R9</b>  | -26 |
| Color fidelity               | <b>TM30 Rf</b> | 83  |
| Color gamut                  | <b>TM30 Rg</b> | 114 |
| Television consistency Index | <b>TLCI</b>    | 68  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

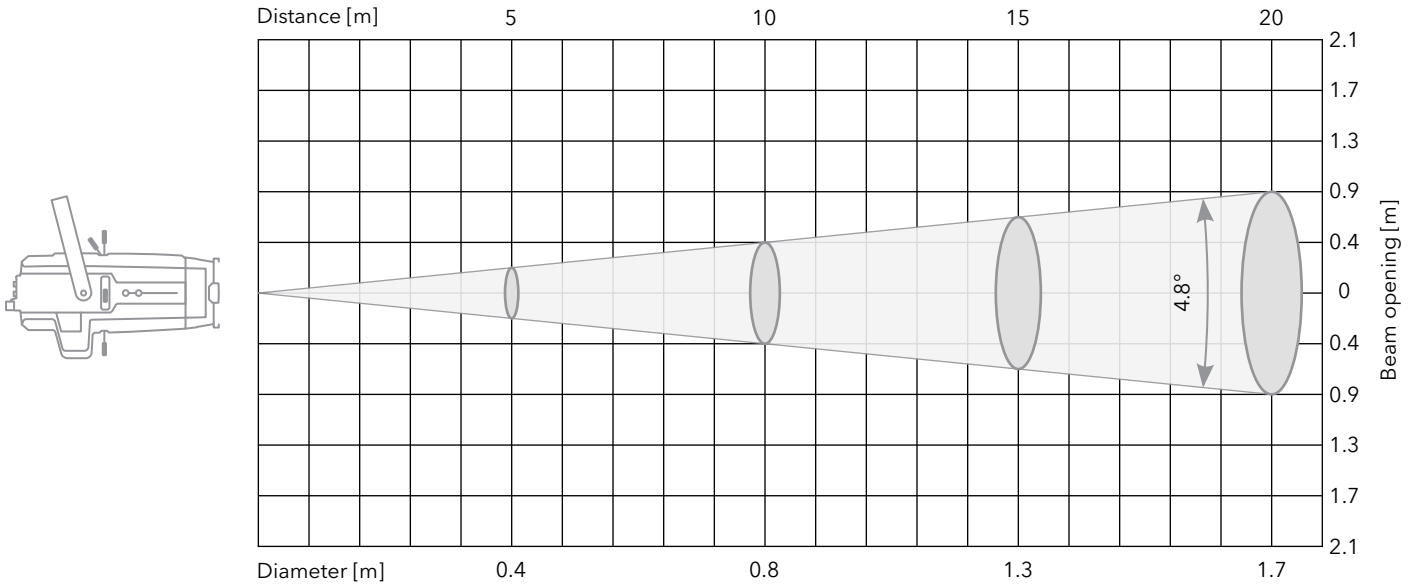
Measurement date: 28.03.2022

# T11 Profile

## Photometric report

Beam angle 4.8° - Min. zoom, CCT 5609K, CRI 92

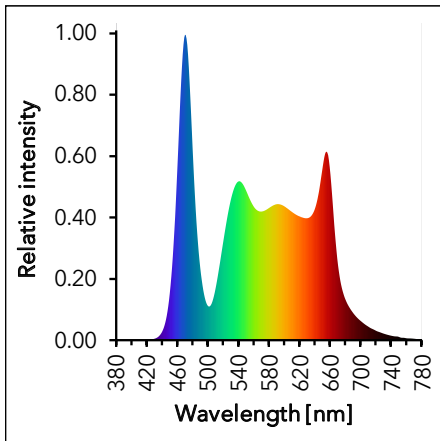
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 4.8°       | 2566 lm                                 | 2460 lm                              | 459575 cd    | 379 W |



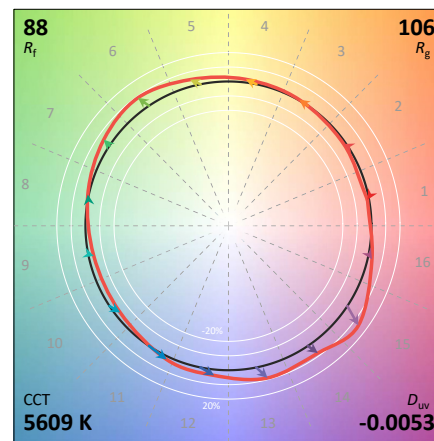
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m        | 10 m     | 15 m     | 20 m     | 30 m   | 40 m   | 50 m   | Total lumens |
|-------------------|------------|----------|----------|----------|--------|--------|--------|--------------|
| 5600 K            | 18383/1708 | 4596/427 | 2043/190 | 1149/107 | 511/47 | 287/27 | 184/17 | 2460         |
| 5600 K Quiet mode | 15626/1452 | 3907/363 | 1736/161 | 977/91   | 434/40 | 244/23 | 156/15 | 2091         |
| 8000 K            | 18996/1765 | 4749/441 | 2111/196 | 1187/110 | 528/49 | 297/28 | 190/18 | 2542         |
| 4200 K            | 18637/1731 | 4659/433 | 2071/192 | 1165/108 | 518/48 | 291/27 | 186/17 | 2494         |
| 3200 K            | 19078/1772 | 4770/443 | 2120/197 | 1192/111 | 530/49 | 298/28 | 191/18 | 2553         |
| 2700 K            | 17187/1597 | 4297/399 | 1910/177 | 1074/100 | 477/44 | 269/25 | 172/16 | 2300         |

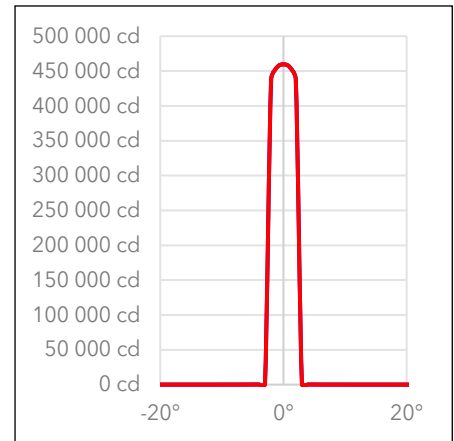
### Spectrum



### TM-30



### Light distribution



|                            |            |         |
|----------------------------|------------|---------|
| Color temperature          | <b>CCT</b> | 5609    |
| Color Deviation from Black | <b>Duv</b> | -0.0053 |
| Color Coordinate CIE 1931  | <b>x</b>   | 0.3301  |
|                            | <b>y</b>   | 0.3289  |
| Color Coordinate           | <b>u</b>   | 0.2100  |
|                            | <b>v</b>   | 0.3139  |

|                              |                |     |
|------------------------------|----------------|-----|
| Color rendering index        | <b>CRI</b>     | 92  |
| Red component                | <b>CRI R9</b>  | 98  |
| Color fidelity               | <b>TM30 Rf</b> | 88  |
| Color gamut                  | <b>TM30 Rg</b> | 106 |
| Television consistency Index | <b>TLCI</b>    | 86  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

Measurement date: 28.03.2022

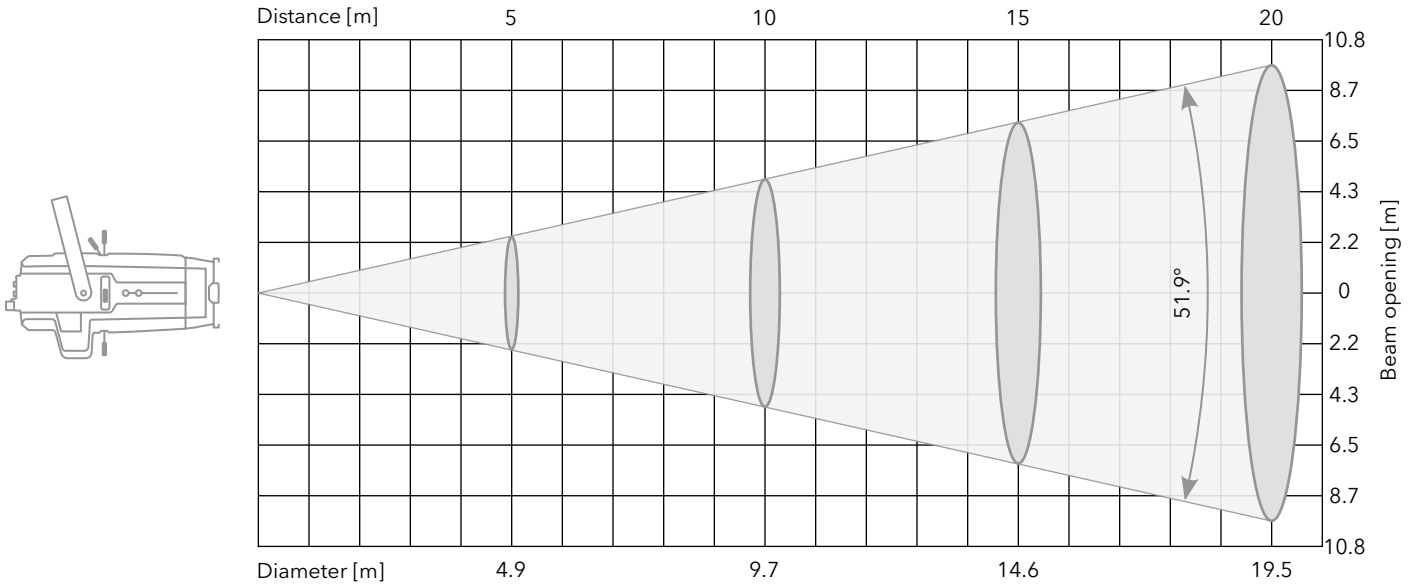


# T11 Profile

## Photometric report

Beam angle 51.9° - Max. zoom, CCT 5640K, CRI 78

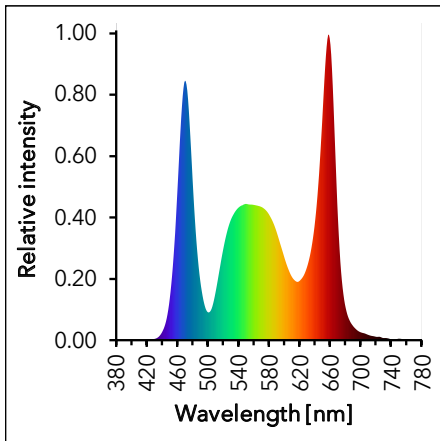
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 51.9°      | 11796 lm                                | 9464 lm                              | 16475 cd     | 419 W |



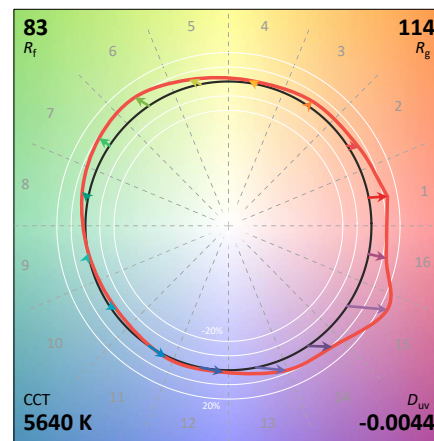
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m    | 10 m   | 15 m | 20 m   | 30 m   | 40 m   | 50 m  | Total lumens |
|-------------------|--------|--------|------|--------|--------|--------|-------|--------------|
| 5600 K            | 659/61 | 165/15 | 73/7 | 41/3.8 | 18/1.7 | 10/1   | 7/0.6 | 9464         |
| 5600 K Quiet mode | 560/52 | 140/13 | 62/6 | 35/3.3 | 16/1.4 | 9/0.8  | 6/0.5 | 8044         |
| 8000 K            | 662/62 | 166/15 | 74/7 | 41/3.8 | 18/1.7 | 10/1   | 7/0.6 | 9500         |
| 4200 K            | 643/60 | 161/15 | 71/7 | 40/3.7 | 18/1.7 | 10/0.9 | 6/0.6 | 9237         |
| 3200 K            | 592/55 | 148/14 | 66/6 | 37/3.4 | 16/1.5 | 9/0.9  | 6/0.5 | 8506         |
| 2700 K            | 534/50 | 134/12 | 59/6 | 33/3.1 | 15/1.4 | 8/0.8  | 5/0.5 | 7663         |

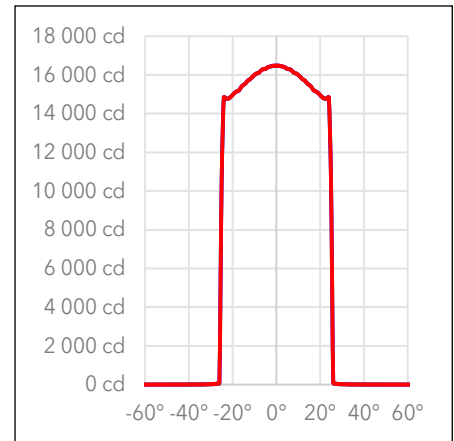
### Spectrum



### TM-30



### Light distribution



|                            |            |         |
|----------------------------|------------|---------|
| Color temperature          | <b>CCT</b> | 5640    |
| Color Deviation from Black | <b>Duv</b> | -0.0044 |
| Color Coordinate CIE 1931  | <b>x</b>   | 0.3294  |
|                            | <b>y</b>   | 0.3300  |
| Color Coordinate           | <b>u</b>   | 0.2091  |
|                            | <b>v</b>   | 0.3142  |

|                              |                |     |
|------------------------------|----------------|-----|
| Color rendering index        | <b>CRI</b>     | 78  |
| Red component                | <b>CRI R9</b>  | -25 |
| Color fidelity               | <b>TM30 Rf</b> | 83  |
| Color gamut                  | <b>TM30 Rg</b> | 114 |
| Television consistency Index | <b>TLCI</b>    | 70  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

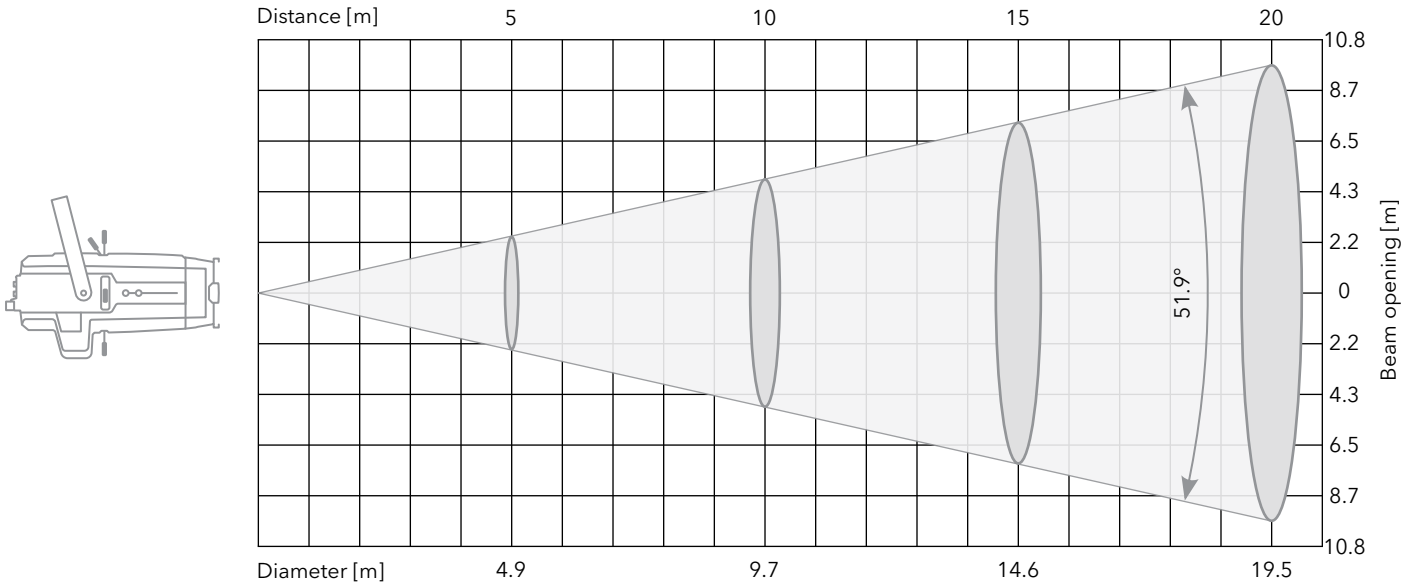
Measurement date: 28.03.2022

# T11 Profile

## Photometric report

Beam angle 51.9° - Max. zoom, CCT 5607K, CRI 91

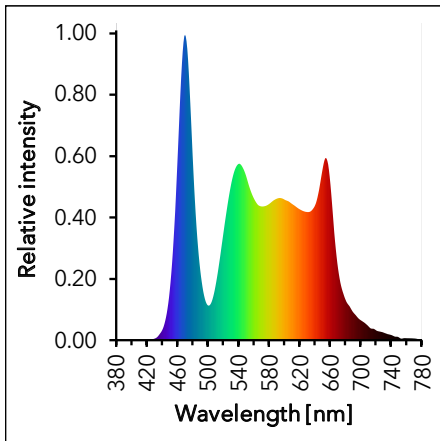
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 51.9°      | 8177 lm                                 | 6491 lm                              | 11550 cd     | 379 W |



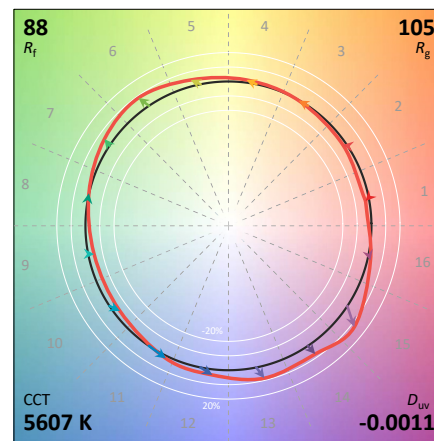
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m      | 10 m       | 15 m     | 20 m     | 30 m     | 40 m    | 50 m    | Total lumens |
|-------------------|----------|------------|----------|----------|----------|---------|---------|--------------|
| 5600 K            | 462/42.9 | 115.5/10.7 | 51.3/4.8 | 28.9/2.7 | 12.8/1.2 | 7.2/0.7 | 4.6/0.4 | 6491         |
| 5600 K Quiet mode | 393/36.5 | 98.3/9.1   | 43.7/4.1 | 24.6/2.3 | 10.9/1   | 6.1/0.6 | 3.9/0.4 | 5517         |
| 8000 K            | 467/43.4 | 116.8/10.8 | 51.9/4.8 | 29.2/2.7 | 13/1.2   | 7.3/0.7 | 4.7/0.4 | 6568         |
| 4200 K            | 470/43.7 | 117.5/10.9 | 52.2/4.9 | 29.4/2.7 | 13.1/1.2 | 7.3/0.7 | 4.7/0.4 | 6608         |
| 3200 K            | 456/42.4 | 114/10.6   | 50.7/4.7 | 28.5/2.6 | 12.7/1.2 | 7.1/0.7 | 4.6/0.4 | 6403         |
| 2700 K            | 411/38.2 | 102.8/9.5  | 45.7/4.2 | 25.7/2.4 | 11.4/1.1 | 6.4/0.6 | 4.1/0.4 | 5768         |

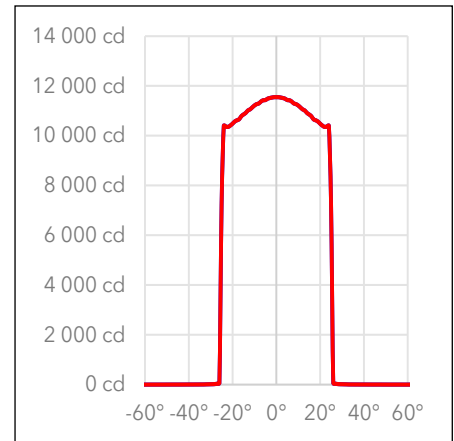
### Spectrum



### TM-30



### Light distribution



|                            |            |         |
|----------------------------|------------|---------|
| Color temperature          | <b>CCT</b> | 5607    |
| Color Deviation from Black | <b>Duv</b> | -0.0011 |
| Color Coordinate CIE 1931  | <b>x</b>   | 0.3300  |
|                            | <b>y</b>   | 0.3368  |
| Color Coordinate           | <b>u</b>   | 0.2069  |
|                            | <b>v</b>   | 0.3167  |

|                              |                |     |
|------------------------------|----------------|-----|
| Color rendering index        | <b>CRI</b>     | 91  |
| Red component                | <b>CRI R9</b>  | 84  |
| Color fidelity               | <b>TM30 Rf</b> | 88  |
| Color gamut                  | <b>TM30 Rg</b> | 105 |
| Television consistency Index | <b>TLCI</b>    | 85  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

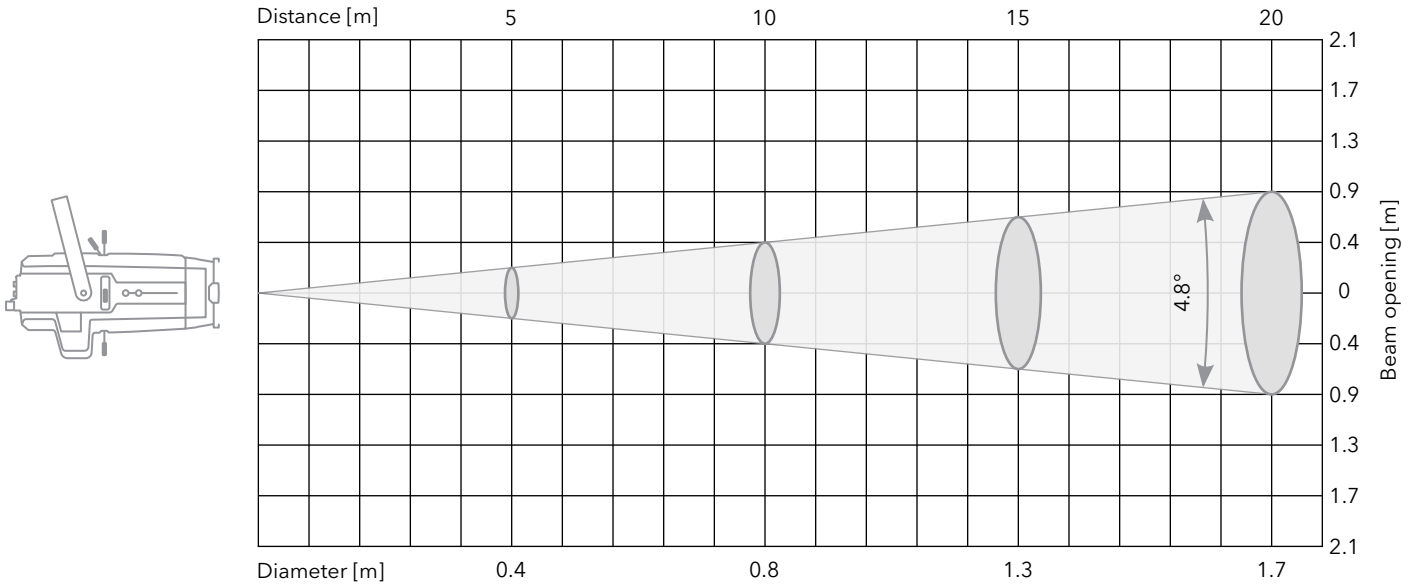
Measurement date: 28.03.2022

# T11 Profile

## Photometric report

**Beam angle 4.8° - Min. zoom, CCT 3246K, CRI 74**

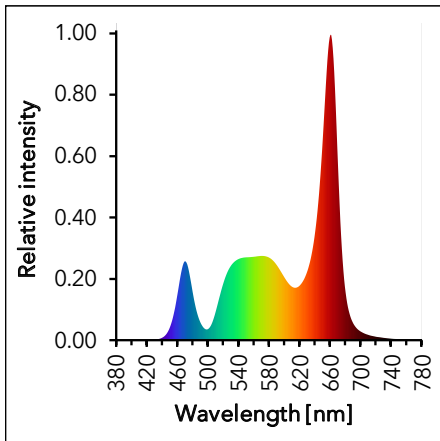
| Beam angle | Total lumen output<br>(integrating sphere) | Total lumen output<br>(goniophotometer) | Peak candela | Power |
|------------|--|---|--------------|-------|
| 4.8°       | 3618 lm                                    | 3431 lm                                 | 640925 cd    | 386 W |



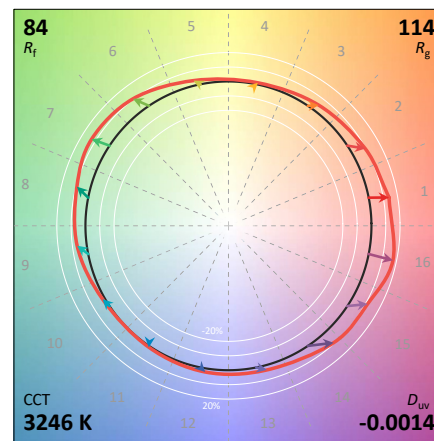
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m          | 10 m         | 15 m         | 20 m         | 30 m       | 40 m       | 50 m       | Total lumens |
|-------------------|--------------|--------------|--------------|--------------|------------|------------|------------|--------------|
| 3200 K            | 25637/2381.8 | 6409.3/595.4 | 2848.6/264.6 | 1602.3/148.9 | 712.1/66.2 | 400.6/37.2 | 256.4/23.8 | 3431         |
| 3200 K Quiet mode | 21791/2024.5 | 5447.8/506.1 | 2421.2/224.9 | 1361.9/126.5 | 605.3/56.2 | 340.5/31.6 | 217.9/20.2 | 2916         |
| 8000 K            | 28872/2682.3 | 7218/670.6   | 3208/298     | 1804.5/167.6 | 802/74.5   | 451.1/41.9 | 288.7/26.8 | 3864         |
| 5600 K            | 28648/2661.5 | 7162/665.4   | 3183.1/295.7 | 1790.5/166.3 | 795.8/73.9 | 447.6/41.6 | 286.5/26.6 | 3834         |
| 4200 K            | 27834/2585.9 | 6958.5/646.5 | 3092.7/287.3 | 1739.6/161.6 | 773.2/71.8 | 434.9/40.4 | 278.3/25.9 | 3725         |
| 2700 K            | 23096/2145.7 | 5774/536.4   | 2566.2/238.4 | 1443.5/134.1 | 641.6/59.6 | 360.9/33.5 | 231/21.5   | 3091         |

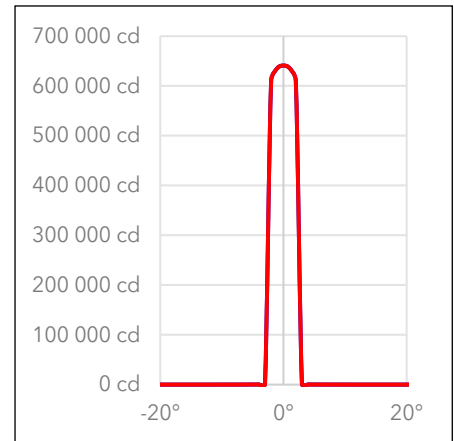
### Spectrum



### TM-30



### Light distribution



|                            |            |         |
|----------------------------|------------|---------|
| Color temperature          | <b>CCT</b> | 3246    |
| Color Deviation from Black | <b>Duv</b> | -0.0014 |
| Color Coordinate CIE 1931  | <b>x</b>   | 0.4187  |
|                            | <b>y</b>   | 0.3938  |
| Color Coordinate           | <b>u</b>   | 0.2432  |
|                            | <b>v</b>   | 0.3430  |

|                              |                |     |
|------------------------------|----------------|-----|
| Color rendering index        | <b>CRI</b>     | 74  |
| Red component                | <b>CRI R9</b>  | -25 |
| Color fidelity               | <b>TM30 Rf</b> | 84  |
| Color gamut                  | <b>TM30 Rg</b> | 114 |
| Television consistency Index | <b>TLCI</b>    | 71  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

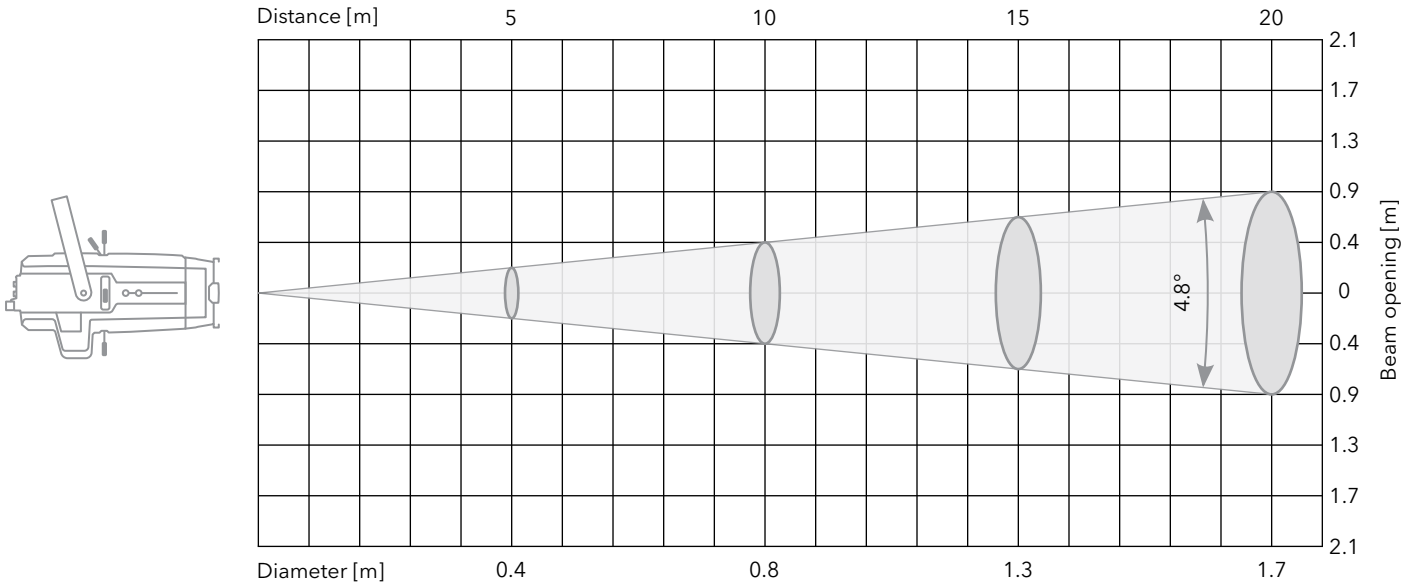
Measurement date: 28.03.2022

# T11 Profile

## Photometric report

Beam angle 4.8° - Min. zoom, CCT 3225K, CRI 92

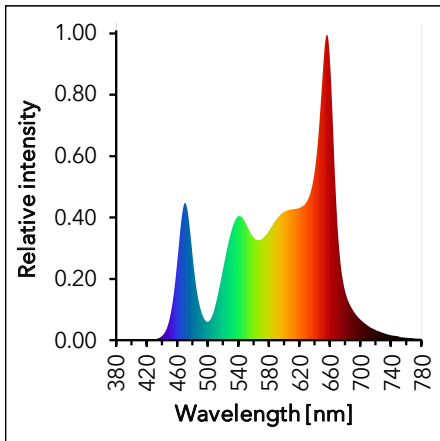
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 4.8°       | 2663 lm                                 | 2553 lm                              | 476950 cd    | 350 W |



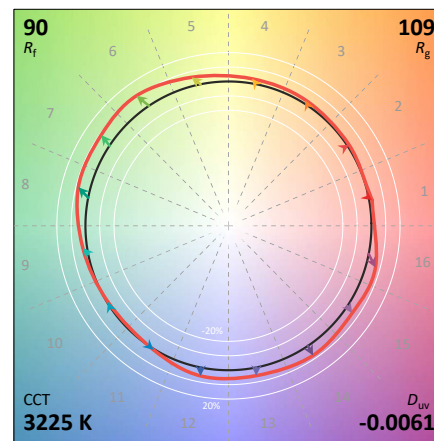
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m          | 10 m         | 15 m         | 20 m         | 30 m       | 40 m       | 50 m       | Total lumens |
|-------------------|--------------|--------------|--------------|--------------|------------|------------|------------|--------------|
| 3200 K            | 19078/1772.4 | 4769.5/443.1 | 2119.8/196.9 | 1192.4/110.8 | 529.9/49.2 | 298.1/27.7 | 190.8/17.7 | 2553         |
| 3200 K Quiet mode | 16216/1506.5 | 4054/376.6   | 1801.8/167.4 | 1013.5/94.2  | 450.4/41.8 | 253.4/23.5 | 162.2/15.1 | 2170         |
| 8000 K            | 18996/1764.8 | 4749/441.2   | 2110.7/196.1 | 1187.3/110.3 | 527.7/49   | 296.8/27.6 | 190/17.6   | 2542         |
| 5600 K            | 18383/1707.8 | 4595.8/427   | 2042.6/189.8 | 1148.9/106.7 | 510.6/47.4 | 287.2/26.7 | 183.8/17.1 | 2460         |
| 4200 K            | 18637/1731.4 | 4659.3/432.9 | 2070.8/192.4 | 1164.8/108.2 | 517.7/48.1 | 291.2/27.1 | 186.4/17.3 | 2494         |
| 2700 K            | 17187/1596.7 | 4296.8/399.2 | 1909.7/177.4 | 1074.2/99.8  | 477.4/44.4 | 268.5/24.9 | 171.9/16   | 2300         |

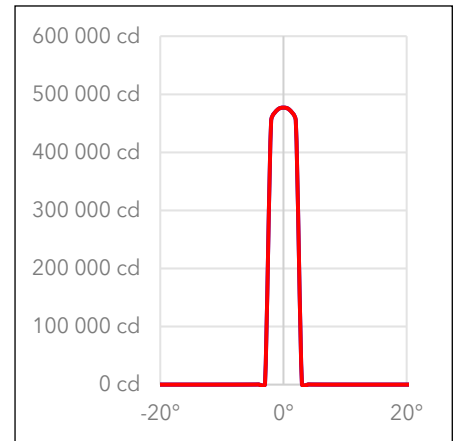
### Spectrum



### TM-30



### Light distribution



|                            |            |         |
|----------------------------|------------|---------|
| Color temperature          | <b>CCT</b> | 3225    |
| Color Deviation from Black | <b>Duv</b> | -0.0061 |
| Color Coordinate CIE 1931  | <b>x</b>   | 0.4143  |
|                            | <b>y</b>   | 0.3811  |
| Color Coordinate           | <b>u</b>   | 0.2457  |
|                            | <b>v</b>   | 0.3390  |

|                              |                |     |
|------------------------------|----------------|-----|
| Color rendering index        | <b>CRI</b>     | 92  |
| Red component                | <b>CRI R9</b>  | 79  |
| Color fidelity               | <b>TM30 Rf</b> | 90  |
| Color gamut                  | <b>TM30 Rg</b> | 109 |
| Television consistency Index | <b>TLCI</b>    | 78  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

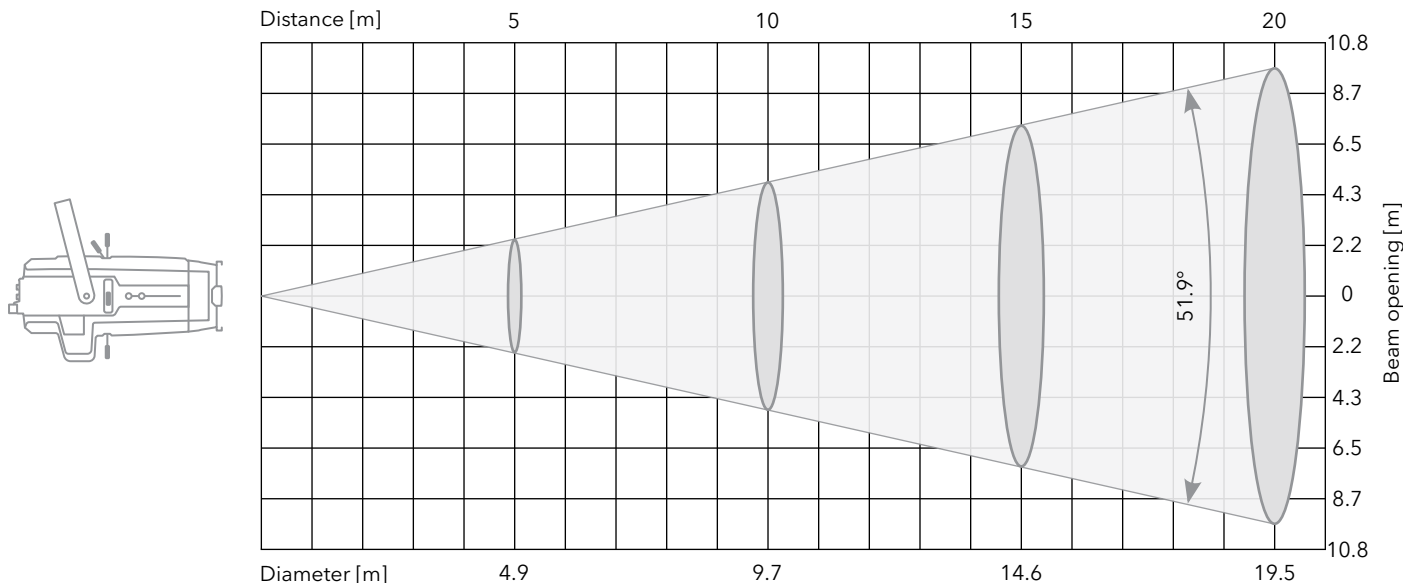
Measurement date: 28.03.2022

# T11 Profile

## Photometric report

Beam angle 51.9° - Max. zoom, CCT 3222K, CRI 75

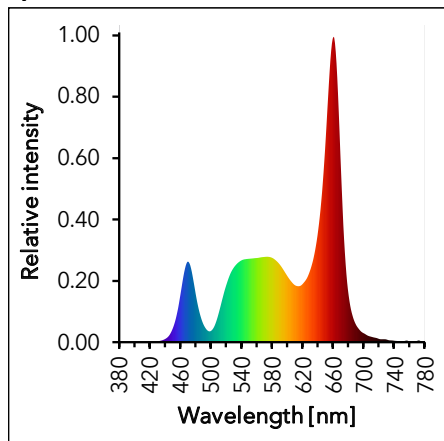
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 51.9°      | 10610 lm                                | 8506 lm                              | 14800 cd     | 386 W |



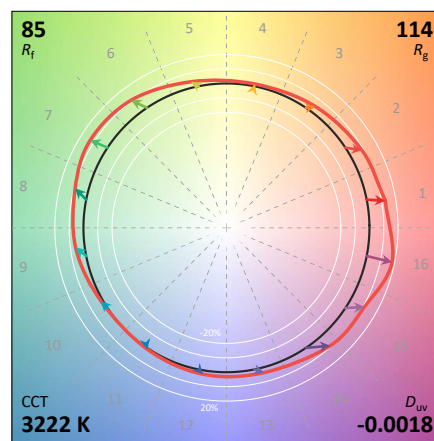
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m      | 10 m       | 15 m     | 20 m     | 30 m     | 40 m    | 50 m    | Total lumens |
|-------------------|----------|------------|----------|----------|----------|---------|---------|--------------|
| 3200 K            | 592/55   | 148/13.7   | 65.8/6.1 | 37/3.4   | 16.4/1.5 | 9.3/0.9 | 5.9/0.5 | 8506         |
| 3200 K Quiet mode | 503/46.7 | 125.8/11.7 | 55.9/5.2 | 31.4/2.9 | 14/1.3   | 7.9/0.7 | 5/0.5   | 7230         |
| 8000 K            | 662/61.5 | 165.5/15.4 | 73.6/6.8 | 41.4/3.8 | 18.4/1.7 | 10.3/1  | 6.6/0.6 | 9500         |
| 5600 K            | 659/61.2 | 164.8/15.3 | 73.2/6.8 | 41.2/3.8 | 18.3/1.7 | 10.3/1  | 6.6/0.6 | 9464         |
| 4200 K            | 643/59.7 | 160.8/14.9 | 71.4/6.6 | 40.2/3.7 | 17.9/1.7 | 10/0.9  | 6.4/0.6 | 9237         |
| 2700 K            | 534/49.6 | 133.5/12.4 | 59.3/5.5 | 33.4/3.1 | 14.8/1.4 | 8.3/0.8 | 5.3/0.5 | 7663         |

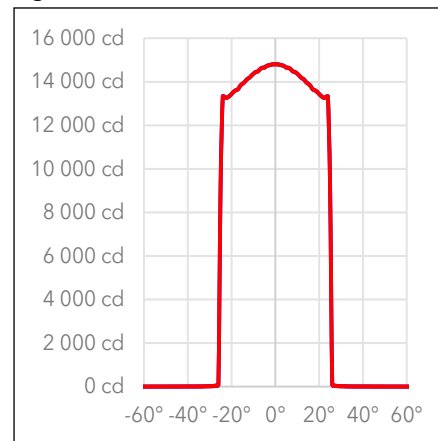
### Spectrum



### TM-30



### Light distribution



|                            |            |         |
|----------------------------|------------|---------|
| Color temperature          | <b>CCT</b> | 3222    |
| Color Deviation from Black | <b>Duv</b> | -0.0018 |
| Color Coordinate CIE 1931  | <b>x</b>   | 0.4196  |
|                            | <b>y</b>   | 0.3930  |
| Color Coordinate           | <b>u</b>   | 0.2441  |
|                            | <b>v</b>   | 0.3429  |

|                              |                |     |
|------------------------------|----------------|-----|
| Color rendering index        | <b>CRI</b>     | 75  |
| Red component                | <b>CRI R9</b>  | -17 |
| Color fidelity               | <b>TM30 Rf</b> | 85  |
| Color gamut                  | <b>TM30 Rg</b> | 114 |
| Television consistency Index | <b>TLCI</b>    | 73  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

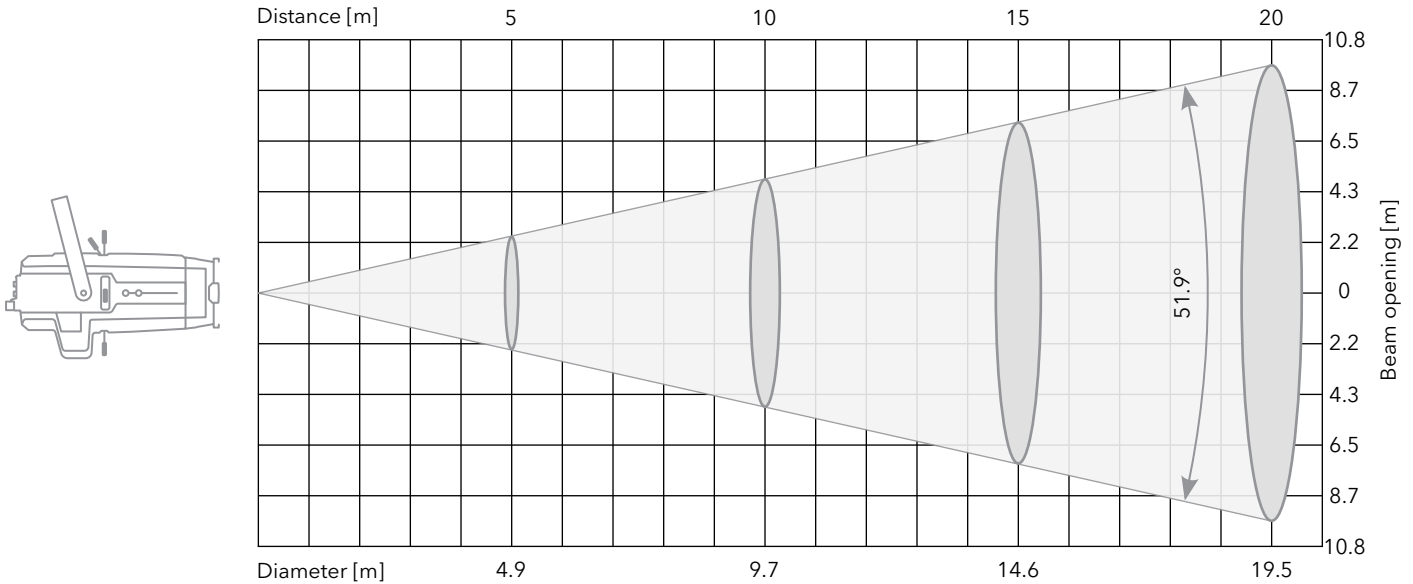
Measurement date: 28.03.2022

# T11 Profile

## Photometric report

Beam angle 51.9° - Max. zoom, CCT 3202K, CRI 92

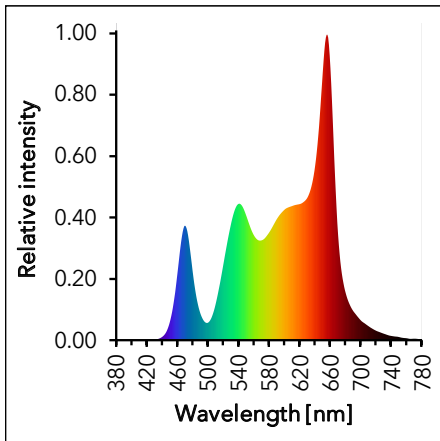
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 51.9°      | 7896 lm                                 | 6403 lm                              | 11400 cd     | 350 W |



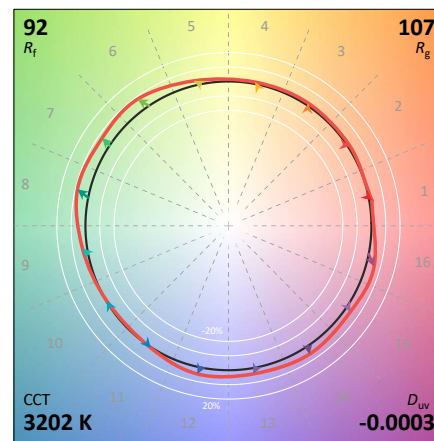
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m      | 10 m       | 15 m     | 20 m     | 30 m     | 40 m    | 50 m    | Total lumens |
|-------------------|----------|------------|----------|----------|----------|---------|---------|--------------|
| 3200 K            | 456/42.4 | 114/10.6   | 50.7/4.7 | 28.5/2.6 | 12.7/1.2 | 7.1/0.7 | 4.6/0.4 | 6403         |
| 3200 K Quiet mode | 388/36   | 97/9       | 43.1/4   | 24.3/2.3 | 10.8/1   | 6.1/0.6 | 3.9/0.4 | 5443         |
| 8000 K            | 467/43.4 | 116.8/10.8 | 51.9/4.8 | 29.2/2.7 | 13/1.2   | 7.3/0.7 | 4.7/0.4 | 6568         |
| 5600 K            | 462/42.9 | 115.5/10.7 | 51.3/4.8 | 28.9/2.7 | 12.8/1.2 | 7.2/0.7 | 4.6/0.4 | 6491         |
| 4200 K            | 470/43.7 | 117.5/10.9 | 52.2/4.9 | 29.4/2.7 | 13.1/1.2 | 7.3/0.7 | 4.7/0.4 | 6608         |
| 2700 K            | 411/38.2 | 102.8/9.5  | 45.7/4.2 | 25.7/2.4 | 11.4/1.1 | 6.4/0.6 | 4.1/0.4 | 5768         |

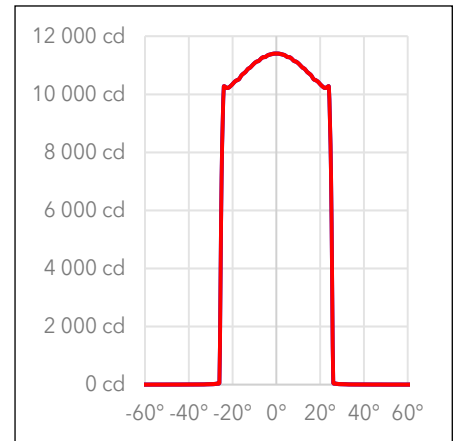
### Spectrum



### TM-30



### Light distribution



|                            |            |         |
|----------------------------|------------|---------|
| Color temperature          | <b>CCT</b> | 3202    |
| Color Deviation from Black | <b>Duv</b> | -0.0003 |
| Color Coordinate CIE 1931  | <b>x</b>   | 0.4229  |
|                            | <b>y</b>   | 0.3981  |
| Color Coordinate           | <b>u</b>   | 0.2440  |
|                            | <b>v</b>   | 0.3446  |

|                              |                |     |
|------------------------------|----------------|-----|
| Color rendering index        | <b>CRI</b>     | 92  |
| Red component                | <b>CRI R9</b>  | 84  |
| Color fidelity               | <b>TM30 Rf</b> | 92  |
| Color gamut                  | <b>TM30 Rg</b> | 107 |
| Television consistency Index | <b>TLCI</b>    | 79  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

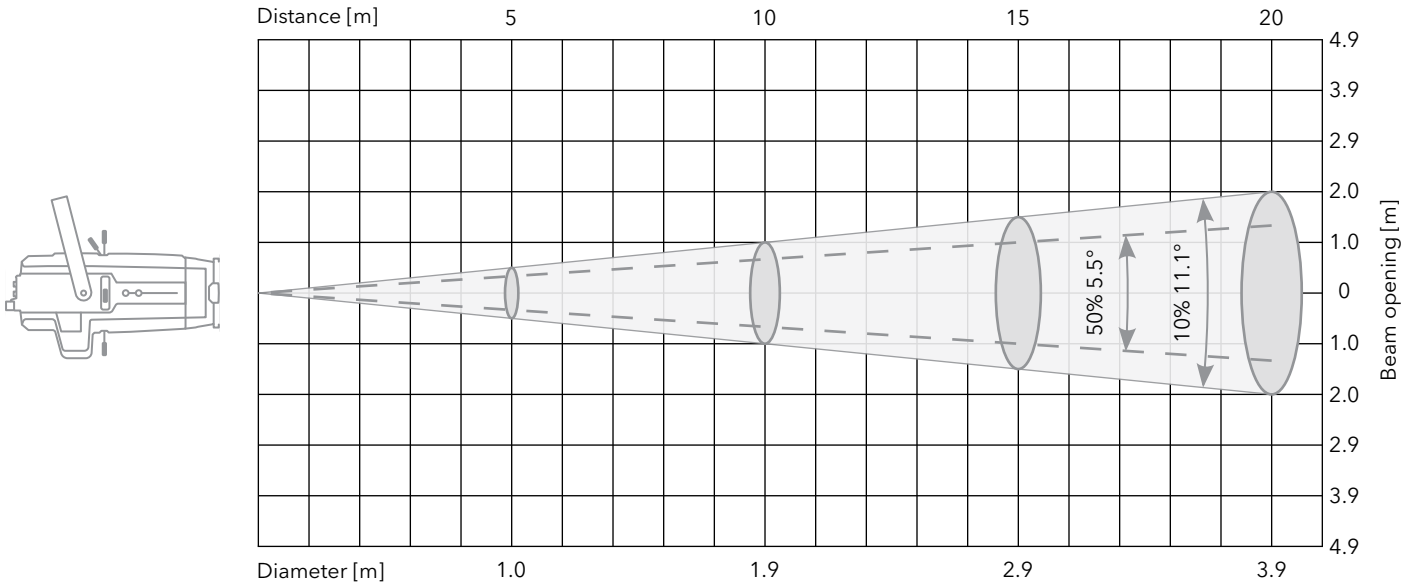
Measurement date: 28.03.2022

# T11 Fresnel

## Photometric report

**Beam angle 11.1° - Min. zoom, CCT 8060K, CRI 85**

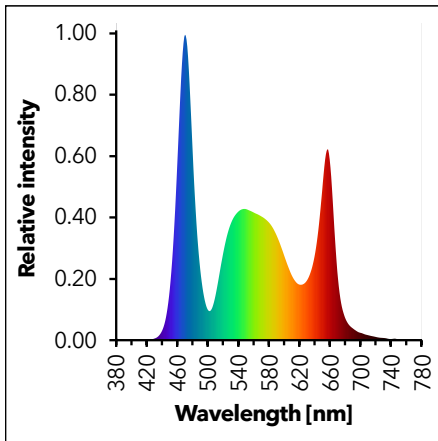
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 11.1°      | 3750 lm                                 | 3400 lm                              | 267500 cd    | 421 W |



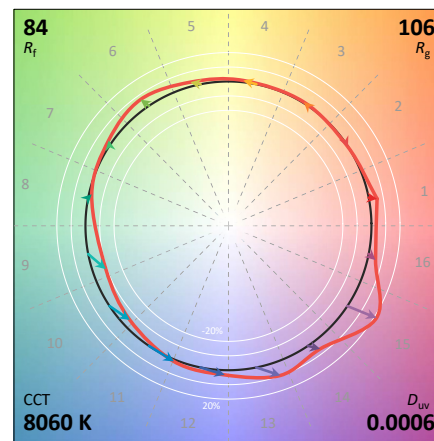
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m       | 10 m     | 15 m     | 20 m   | 30 m   | 40 m   | 50 m   | Total lumens |
|-------------------|-----------|----------|----------|--------|--------|--------|--------|--------------|
| 8000 K            | 10700/994 | 2675/249 | 1189/110 | 669/62 | 297/28 | 167/16 | 107/10 | 3400         |
| 8000 K Quiet mode | 9309/865  | 2327/216 | 1034/96  | 582/54 | 259/24 | 145/14 | 93/9   | 2958         |
| 5600 K            | 10500/975 | 2625/244 | 1167/108 | 656/61 | 292/27 | 164/15 | 105/10 | 3336         |
| 4200 K            | 10100/938 | 2525/235 | 1122/104 | 631/59 | 281/26 | 158/15 | 101/9  | 3209         |
| 3200 K            | 9320/866  | 2330/216 | 1036/96  | 583/54 | 259/24 | 146/14 | 93/9   | 2961         |
| 2700 K            | 8300/771  | 2075/193 | 922/86   | 519/48 | 231/21 | 130/12 | 83/8   | 2637         |

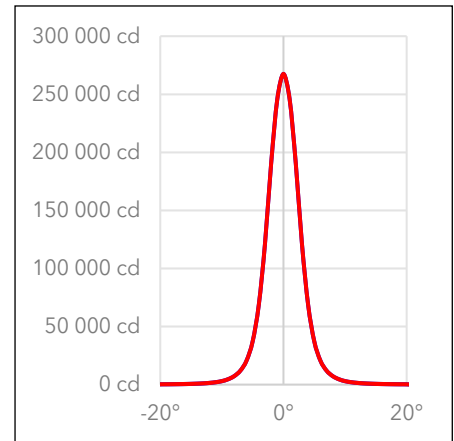
### Spectrum



### TM-30



### Light distribution



|                            |     |        |
|----------------------------|-----|--------|
| Color temperature          | CCT | 8060   |
| Color Deviation from Black | Duv | 0.0006 |
| Color Coordinate CIE 1931  | x   | 0.2943 |
|                            | y   | 0.3050 |
| Color Coordinate           | u   | 0.1939 |
|                            | v   | 0.3014 |

|                              |         |     |
|------------------------------|---------|-----|
| Color rendering index        | CRI     | 85  |
| Red component                | CRI R9  | 43  |
| Color fidelity               | TM30 Rf | 84  |
| Color gamut                  | TM30 Rg | 106 |
| Television consistency Index | TLCI    | 85  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

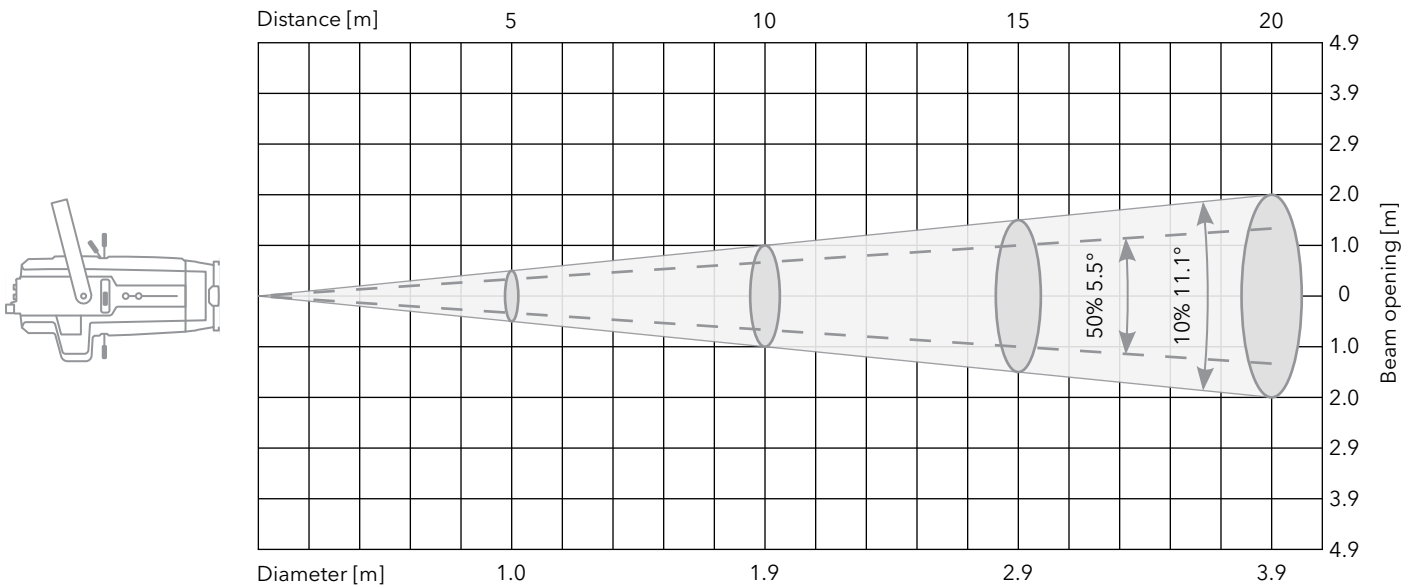
Measurement date: 01.09.2022

# T11 Fresnel

## Photometric report

**Beam angle 11.1° - Min. zoom, CCT 8006K, CRI 91**

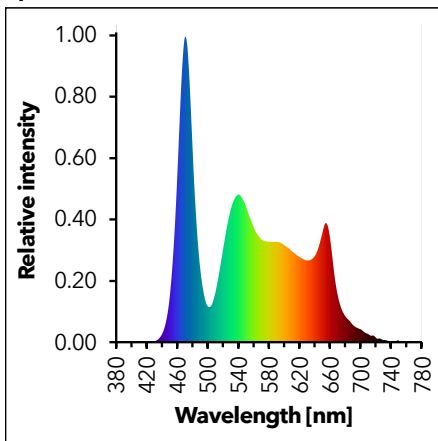
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 11.1°      | 2583 lm                                 | 2342 lm                              | 184250 cd    | 403 W |



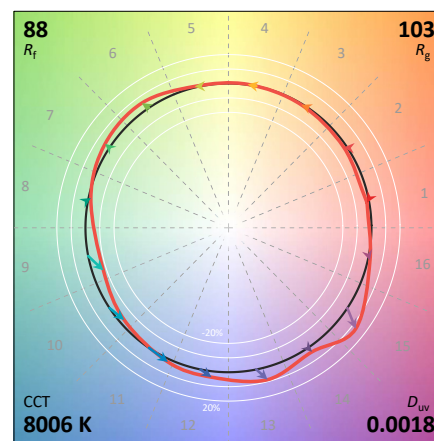
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m      | 10 m     | 15 m   | 20 m   | 30 m   | 40 m   | 50 m | Total lumens |
|-------------------|----------|----------|--------|--------|--------|--------|------|--------------|
| 8000 K            | 7370/685 | 1843/171 | 819/76 | 461/43 | 205/19 | 115/11 | 74/7 | 2342         |
| 8000 K Quiet mode | 6412/596 | 1603/149 | 712/66 | 401/37 | 178/17 | 100/9  | 64/6 | 2038         |
| 5600 K            | 6770/629 | 1693/157 | 752/70 | 423/39 | 188/17 | 106/10 | 68/6 | 2151         |
| 4200 K            | 6760/628 | 1690/157 | 751/70 | 423/39 | 188/17 | 106/10 | 68/6 | 2148         |
| 3200 K            | 5940/552 | 1485/138 | 660/61 | 371/34 | 165/15 | 93/9   | 59/6 | 1888         |
| 2700 K            | 5840/543 | 1460/136 | 649/60 | 365/34 | 162/15 | 91/8   | 58/5 | 1856         |

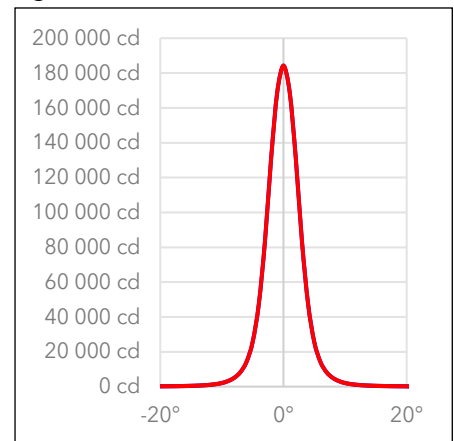
### Spectrum



### TM-30



### Light distribution



|                            |     |        |
|----------------------------|-----|--------|
| Color temperature          | CCT | 8006   |
| Color Deviation from Black | Duv | 0.0018 |
| Color Coordinate CIE 1931  | x   | 0.2943 |
|                            | y   | 0.3072 |
| Color Coordinate           | u   | 0.1931 |
|                            | v   | 0.3023 |

|                              |         |     |
|------------------------------|---------|-----|
| Color rendering index        | CRI     | 91  |
| Red component                | CRI R9  | 90  |
| Color fidelity               | TM30 Rf | 88  |
| Color gamut                  | TM30 Rg | 103 |
| Television consistency Index | TLCI    | 90  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

Measurement date: 01.09.2022

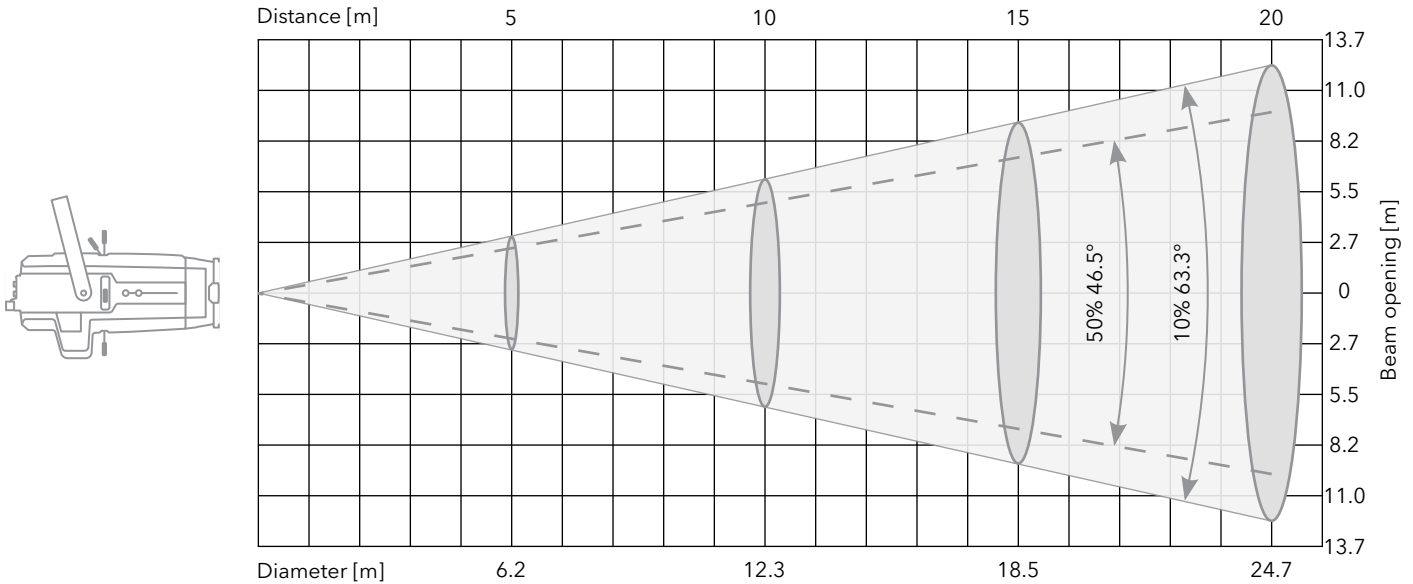


# T11 Fresnel

## Photometric report

**Beam angle 63.3° - Max. zoom, CCT 8041K, CRI 85**

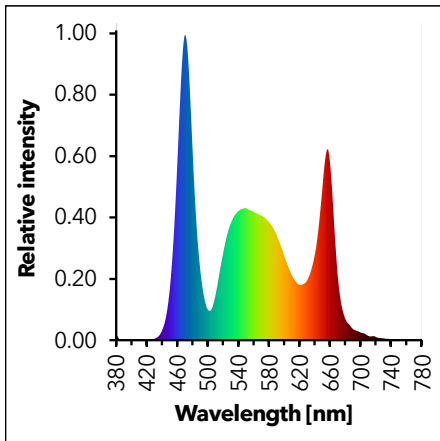
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 63.3°      | 10085 lm                                | 8032 lm                              | 13875 cd     | 421 W |



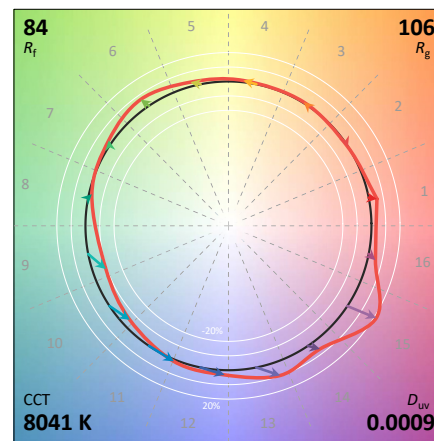
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m      | 10 m       | 15 m     | 20 m     | 30 m     | 40 m    | 50 m    | Total lumens |
|-------------------|----------|------------|----------|----------|----------|---------|---------|--------------|
| 8000 K            | 555/51.6 | 138.8/12.9 | 61.7/5.7 | 34.7/3.2 | 15.4/1.4 | 8.7/0.8 | 5.6/0.5 | 8032         |
| 8000 K Quiet mode | 483/44.9 | 120.8/11.2 | 53.7/5   | 30.2/2.8 | 13.4/1.2 | 7.5/0.7 | 4.8/0.4 | 6990         |
| 5600 K            | 546/50.7 | 136.5/12.7 | 60.7/5.6 | 34.1/3.2 | 15.2/1.4 | 8.5/0.8 | 5.5/0.5 | 7902         |
| 4200 K            | 529/49.1 | 132.3/12.3 | 58.8/5.5 | 33.1/3.1 | 14.7/1.4 | 8.3/0.8 | 5.3/0.5 | 7656         |
| 3200 K            | 487/45.2 | 121.8/11.3 | 54.1/5   | 30.4/2.8 | 13.5/1.3 | 7.6/0.7 | 4.9/0.5 | 7048         |
| 2700 K            | 439/40.8 | 109.8/10.2 | 48.8/4.5 | 27.4/2.5 | 12.2/1.1 | 6.9/0.6 | 4.4/0.4 | 6353         |

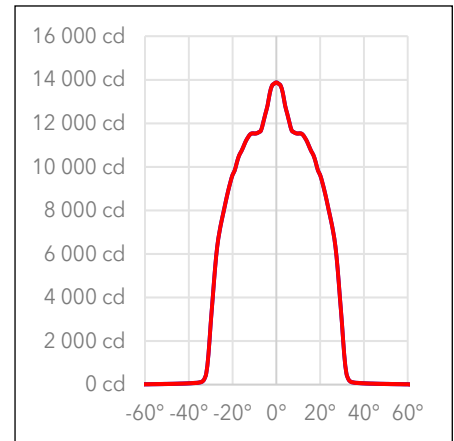
### Spectrum



### TM-30



### Light distribution



|                            |     |        |
|----------------------------|-----|--------|
| Color temperature          | CCT | 8041   |
| Color Deviation from Black | Duv | 0.0009 |
| Color Coordinate CIE 1931  | x   | 0.2944 |
|                            | y   | 0.3056 |
| Color Coordinate           | u   | 0.1937 |
|                            | v   | 0.3017 |

|                              |         |     |
|------------------------------|---------|-----|
| Color rendering index        | CRI     | 85  |
| Red component                | CRI R9  | 44  |
| Color fidelity               | TM30 Rf | 84  |
| Color gamut                  | TM30 Rg | 106 |
| Television consistency Index | TLCI    | 86  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

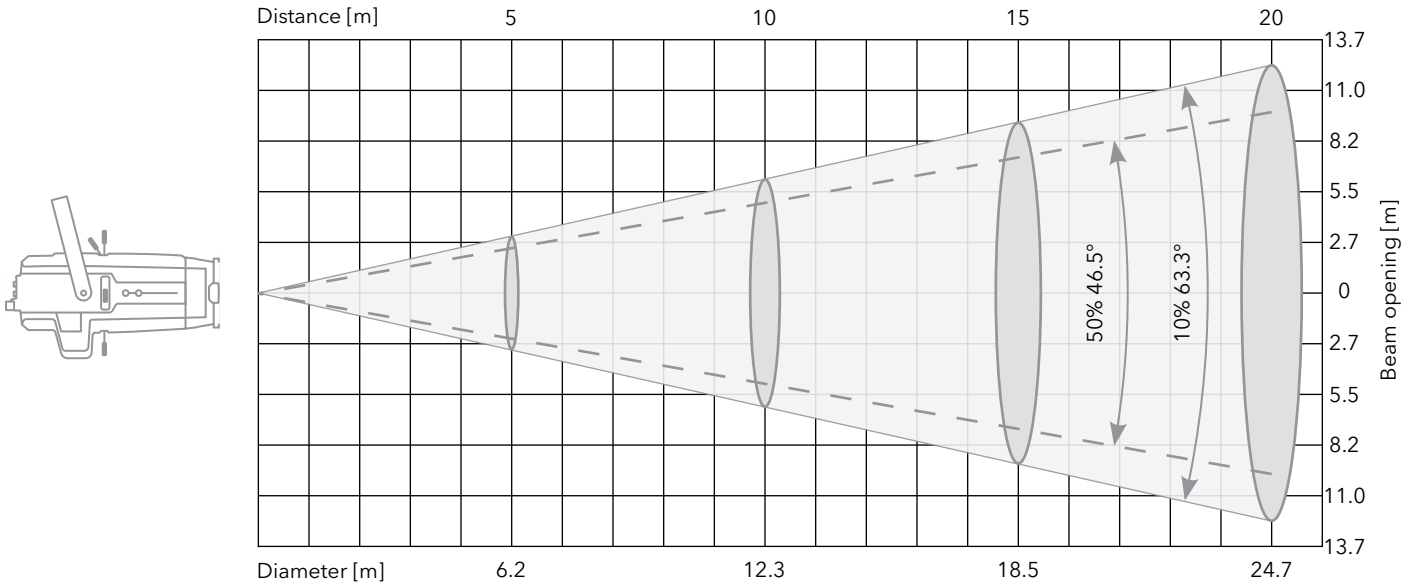
Measurement date: 01.09.2022

# T11 Fresnel

## Photometric report

**Beam angle 63.3° - Max. zoom, CCT 8075K, CRI 91**

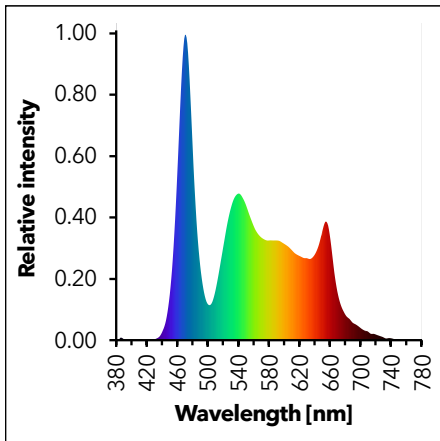
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 63.3°      | 7323 lm                                 | 5832 lm                              | 10075 cd     | 403 W |



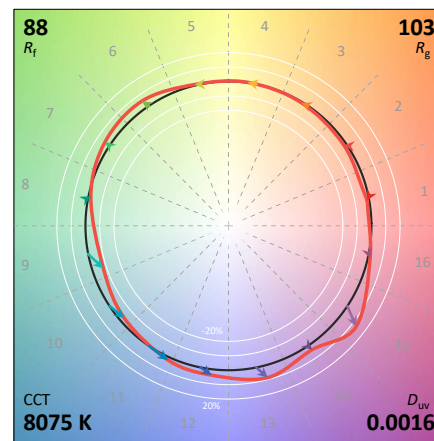
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m      | 10 m      | 15 m     | 20 m     | 30 m    | 40 m    | 50 m    | Total lumens |
|-------------------|----------|-----------|----------|----------|---------|---------|---------|--------------|
| 8000 K            | 403/37.4 | 100.8/9.4 | 44.8/4.2 | 25.2/2.3 | 11.2/1  | 6.3/0.6 | 4/0.4   | 5832         |
| 8000 K Quiet mode | 351/32.6 | 87.8/8.2  | 39/3.6   | 21.9/2   | 9.8/0.9 | 5.5/0.5 | 3.5/0.3 | 5079         |
| 5600 K            | 373/34.7 | 93.3/8.7  | 41.4/3.9 | 23.3/2.2 | 10.4/1  | 5.8/0.5 | 3.7/0.3 | 5398         |
| 4200 K            | 371/34.5 | 92.8/8.6  | 41.2/3.8 | 23.2/2.2 | 10.3/1  | 5.8/0.5 | 3.7/0.3 | 5369         |
| 3200 K            | 326/30.3 | 81.5/7.6  | 36.2/3.4 | 20.4/1.9 | 9.1/0.8 | 5.1/0.5 | 3.3/0.3 | 4718         |
| 2700 K            | 317/29.5 | 79.3/7.4  | 35.2/3.3 | 19.8/1.8 | 8.8/0.8 | 5/0.5   | 3.2/0.3 | 4587         |

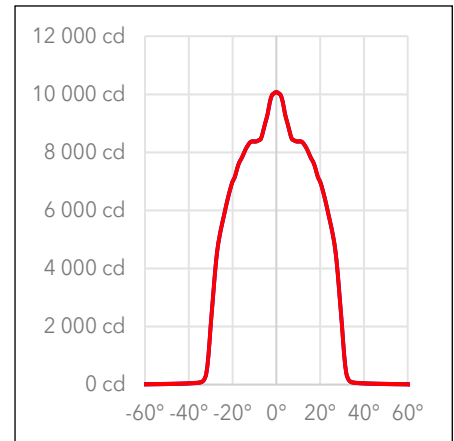
### Spectrum



### TM-30



### Light distribution



|                            |     |        |
|----------------------------|-----|--------|
| Color temperature          | CCT | 8075   |
| Color Deviation from Black | Duv | 0.0016 |
| Color Coordinate CIE 1931  | x   | 0.2937 |
|                            | y   | 0.3063 |
| Color Coordinate           | u   | 0.1930 |
|                            | v   | 0.3019 |

|                              |         |     |
|------------------------------|---------|-----|
| Color rendering index        | CRI     | 91  |
| Red component                | CRI R9  | 91  |
| Color fidelity               | TM30 Rf | 88  |
| Color gamut                  | TM30 Rg | 103 |
| Television consistency Index | TLCI    | 91  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

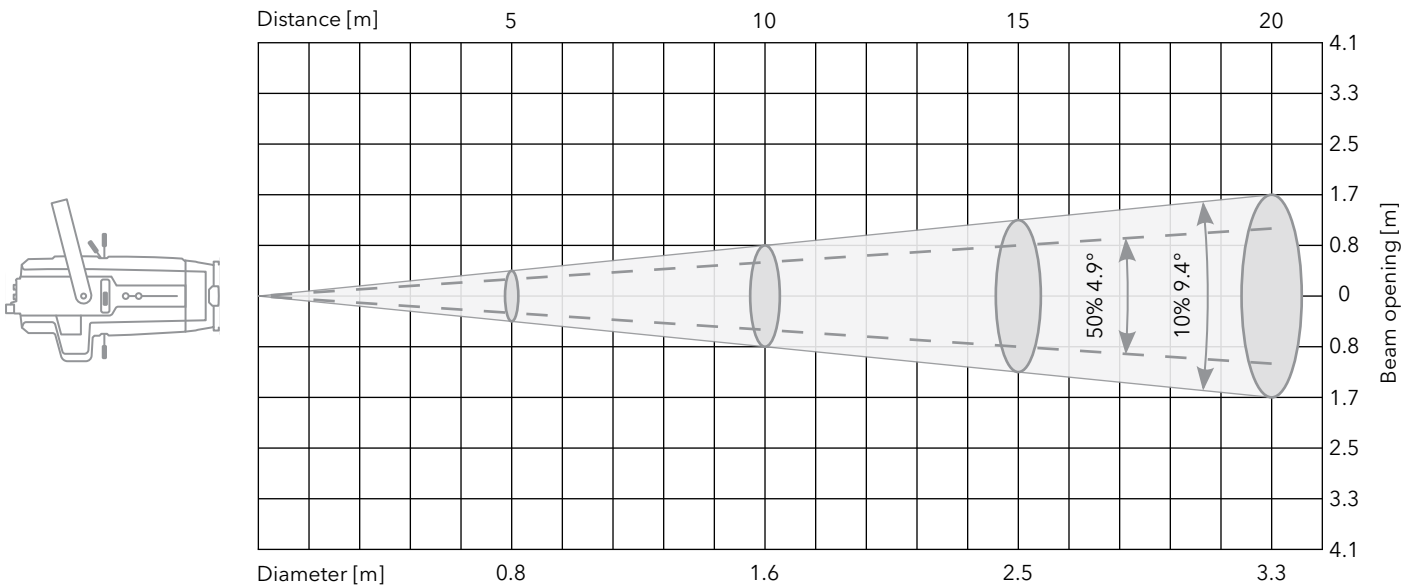
Measurement date: 01.09.2022

# T11 PC

## Photometric report

**Beam angle 9.4° - Min. zoom, CCT 8088K, CRI 85**

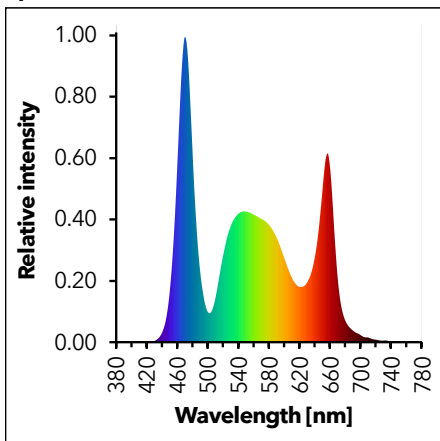
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 9.4°       | 4105 lm                                 | 3697 lm                              | 425000 cd    | 421 W |



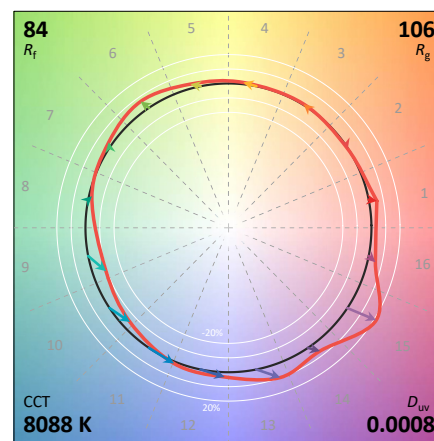
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m        | 10 m     | 15 m     | 20 m    | 30 m   | 40 m   | 50 m   | Total lumens |
|-------------------|------------|----------|----------|---------|--------|--------|--------|--------------|
| 8000 K            | 17000/1579 | 4250/395 | 1889/175 | 1063/99 | 472/44 | 266/25 | 170/16 | 3697         |
| 8000 K Quiet mode | 14790/1374 | 3698/344 | 1643/153 | 924/86  | 411/38 | 231/21 | 148/14 | 3216         |
| 5600 K            | 16400/1524 | 4100/381 | 1822/169 | 1025/95 | 456/42 | 256/24 | 164/15 | 3567         |
| 4200 K            | 15900/1477 | 3975/369 | 1767/164 | 994/92  | 442/41 | 248/23 | 159/15 | 3458         |
| 3200 K            | 14600/1356 | 3650/339 | 1622/151 | 913/85  | 406/38 | 228/21 | 146/14 | 3175         |
| 2700 K            | 13100/1217 | 3275/304 | 1456/135 | 819/76  | 364/34 | 205/19 | 131/12 | 2849         |

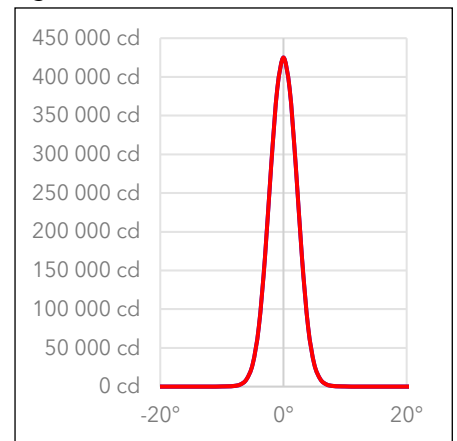
### Spectrum



### TM-30



### Light distribution



|                            |     |        |
|----------------------------|-----|--------|
| Color temperature          | CCT | 8088   |
| Color Deviation from Black | Duv | 0.0008 |
| Color Coordinate CIE 1931  | x   | 0.2940 |
|                            | y   | 0.3050 |
| Color Coordinate           | u   | 0.1937 |
|                            | v   | 0.3014 |

|                              |         |     |
|------------------------------|---------|-----|
| Color rendering index        | CRI     | 85  |
| Red component                | CRI R9  | 44  |
| Color fidelity               | TM30 Rf | 84  |
| Color gamut                  | TM30 Rg | 106 |
| Television consistency Index | TLCI    | 86  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

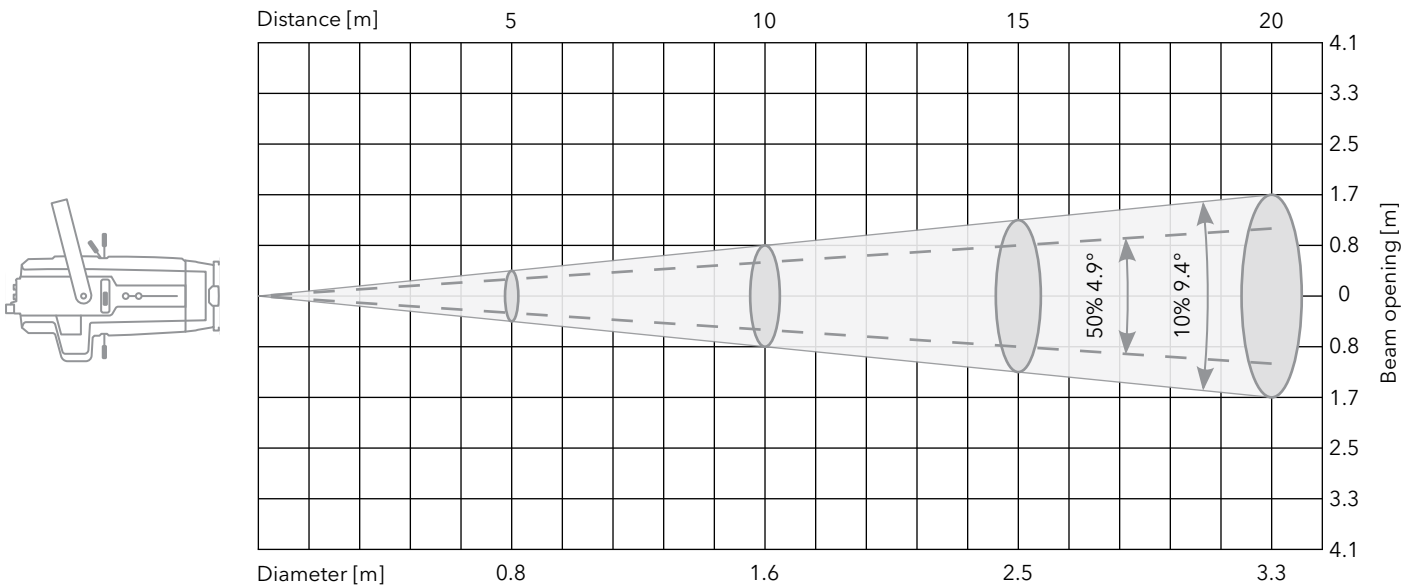
Measurement date: 01.09.2022

# T11 PC

## Photometric report

**Beam angle 9.4° - Min. zoom, CCT 8080K, CRI 91**

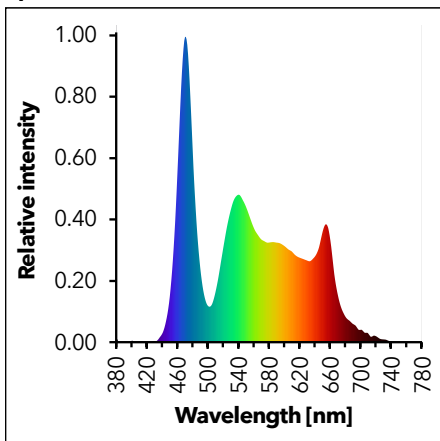
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 9.4°       | 2777 lm                                 | 2501 lm                              | 287500 cd    | 403 W |



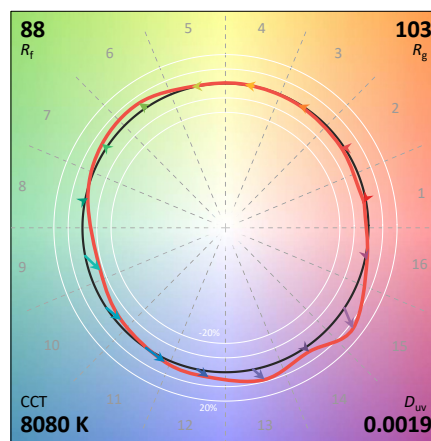
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m        | 10 m     | 15 m     | 20 m   | 30 m   | 40 m   | 50 m   | Total lumens |
|-------------------|------------|----------|----------|--------|--------|--------|--------|--------------|
| 8000 K            | 11500/1068 | 2875/267 | 1278/119 | 719/67 | 319/30 | 180/17 | 115/11 | 2501         |
| 8000 K Quiet mode | 10005/929  | 2501/232 | 1112/103 | 625/58 | 278/26 | 156/15 | 100/9  | 2176         |
| 5600 K            | 10700/994  | 2675/249 | 1189/110 | 669/62 | 297/28 | 167/16 | 107/10 | 2327         |
| 4200 K            | 10600/985  | 2650/246 | 1178/109 | 663/62 | 294/27 | 166/15 | 106/10 | 2305         |
| 3200 K            | 9230/857   | 2308/214 | 1026/95  | 577/54 | 256/24 | 144/13 | 92/9   | 2007         |
| 2700 K            | 9060/842   | 2265/210 | 1007/94  | 566/53 | 252/23 | 142/13 | 91/8   | 1970         |

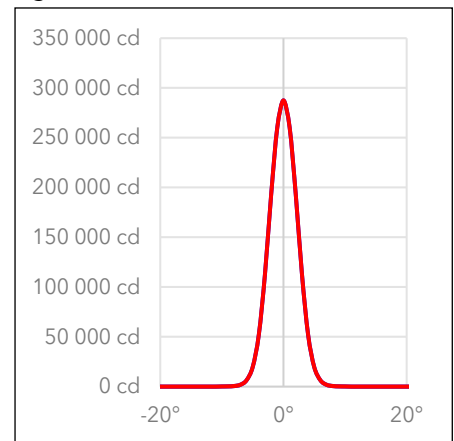
### Spectrum



### TM-30



### Light distribution



|                            |     |        |
|----------------------------|-----|--------|
| Color temperature          | CCT | 8080   |
| Color Deviation from Black | Duv | 0.0019 |
| Color Coordinate CIE 1931  | x   | 0.2936 |
|                            | y   | 0.3065 |
| Color Coordinate           | u   | 0.1928 |
|                            | v   | 0.3019 |

|                              |         |     |
|------------------------------|---------|-----|
| Color rendering index        | CRI     | 91  |
| Red component                | CRI R9  | 91  |
| Color fidelity               | TM30 Rf | 88  |
| Color gamut                  | TM30 Rg | 103 |
| Television consistency Index | TLCI    | 91  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

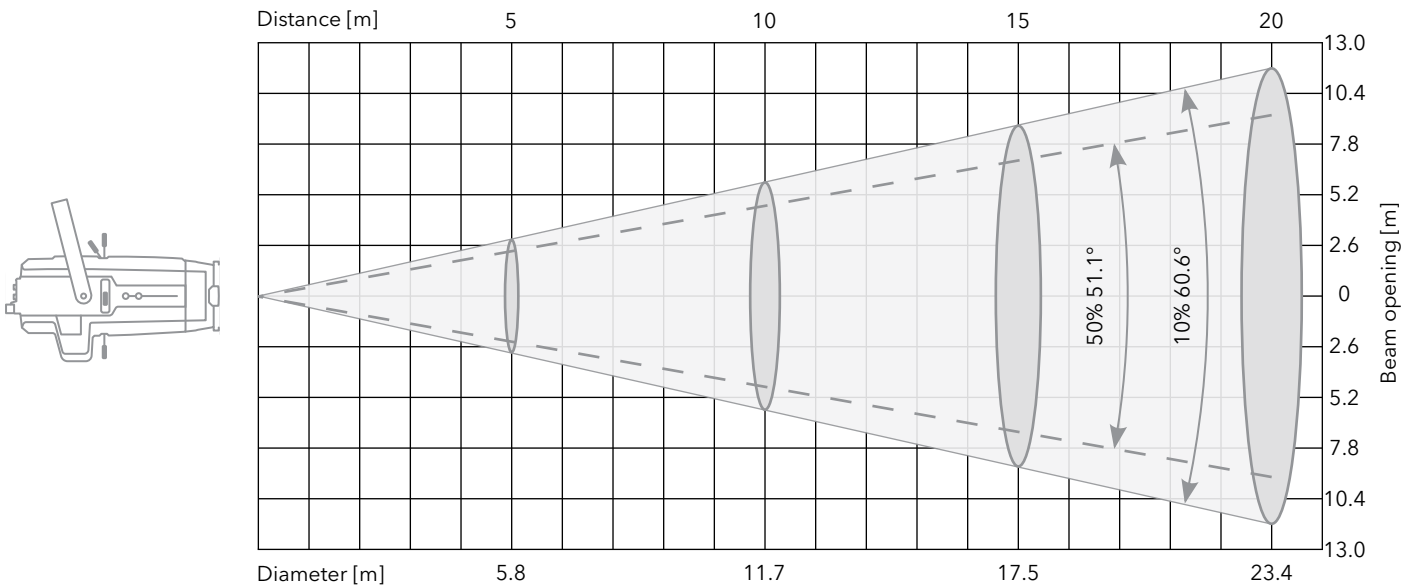
Measurement date: 01.09.2022

# T11 PC

## Photometric report

**Beam angle 60.6° - Max. zoom, CCT 8044K, CRI 85**

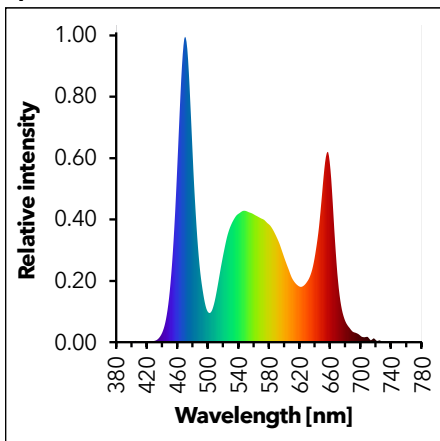
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 60.6°      | 10450 lm                                | 8353 lm                              | 13500 cd     | 421 W |



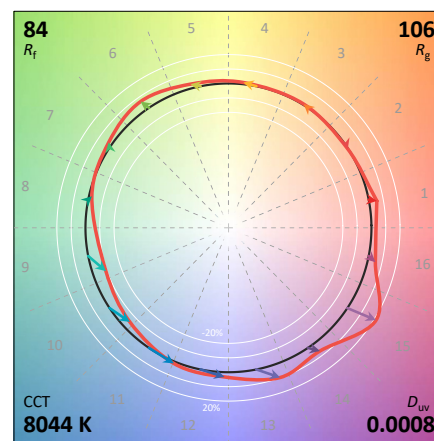
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m      | 10 m       | 15 m     | 20 m     | 30 m     | 40 m    | 50 m    | Total lumens |
|-------------------|----------|------------|----------|----------|----------|---------|---------|--------------|
| 8000 K            | 540/50.2 | 135/12.5   | 60/5.6   | 33.8/3.1 | 15/1.4   | 8.4/0.8 | 5.4/0.5 | 8353         |
| 8000 K Quiet mode | 470/43.7 | 117.5/10.9 | 52.2/4.9 | 29.4/2.7 | 13.1/1.2 | 7.3/0.7 | 4.7/0.4 | 7270         |
| 5600 K            | 526/48.9 | 131.5/12.2 | 58.4/5.4 | 32.9/3.1 | 14.6/1.4 | 8.2/0.8 | 5.3/0.5 | 8136         |
| 4200 K            | 511/47.5 | 127.8/11.9 | 56.8/5.3 | 31.9/3   | 14.2/1.3 | 8/0.7   | 5.1/0.5 | 7904         |
| 3200 K            | 470/43.7 | 117.5/10.9 | 52.2/4.9 | 29.4/2.7 | 13.1/1.2 | 7.3/0.7 | 4.7/0.4 | 7270         |
| 2700 K            | 425/39.5 | 106.3/9.9  | 47.2/4.4 | 26.6/2.5 | 11.8/1.1 | 6.6/0.6 | 4.3/0.4 | 6574         |

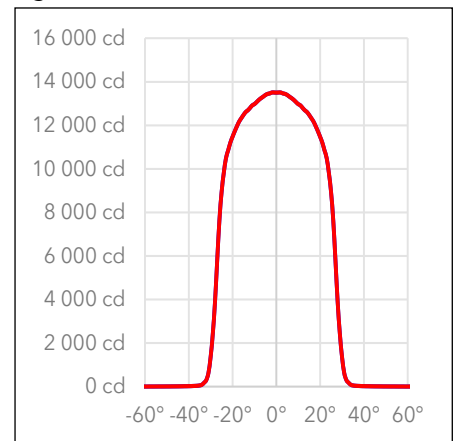
### Spectrum



### TM-30



### Light distribution



|                            |     |        |
|----------------------------|-----|--------|
| Color temperature          | CCT | 8044   |
| Color Deviation from Black | Duv | 0.0008 |
| Color Coordinate CIE 1931  | x   | 0.2944 |
|                            | y   | 0.3054 |
| Color Coordinate           | u   | 0.1938 |
|                            | v   | 0.3016 |

|                              |         |     |
|------------------------------|---------|-----|
| Color rendering index        | CRI     | 85  |
| Red component                | CRI R9  | 44  |
| Color fidelity               | TM30 Rf | 84  |
| Color gamut                  | TM30 Rg | 106 |
| Television consistency Index | TLCI    | 86  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

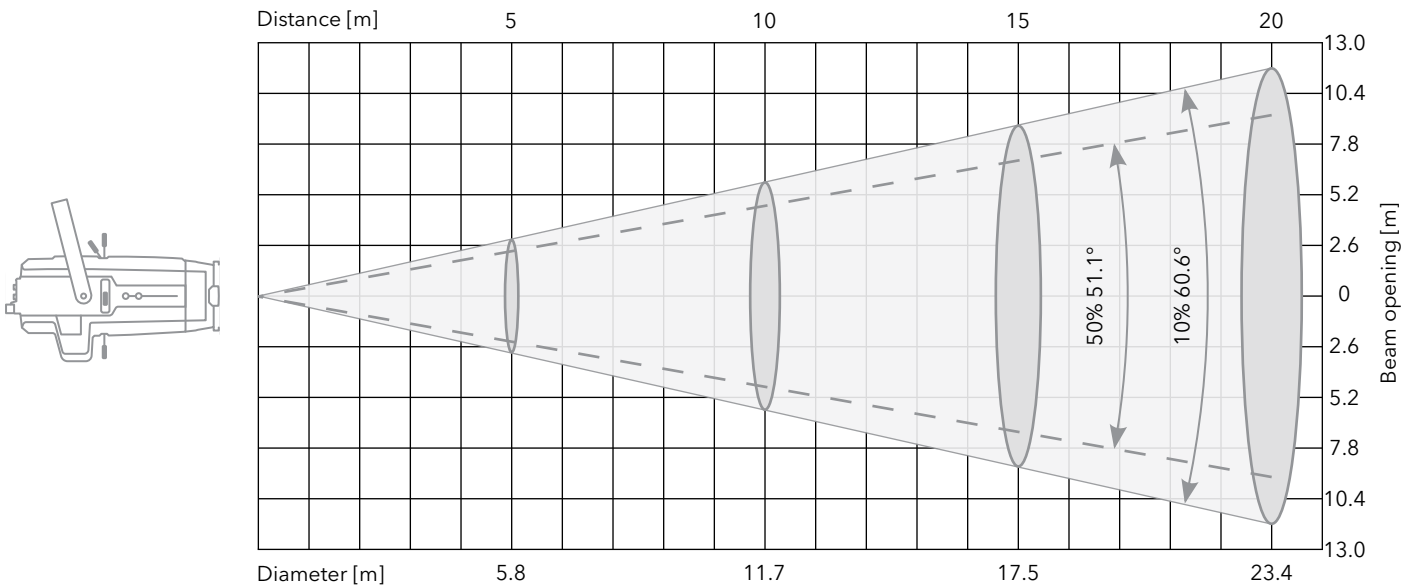
Measurement date: 01.09.2022

# T11 PC

## Photometric report

**Beam angle 60.6° - Max. zoom, CCT 8034K, CRI 91**

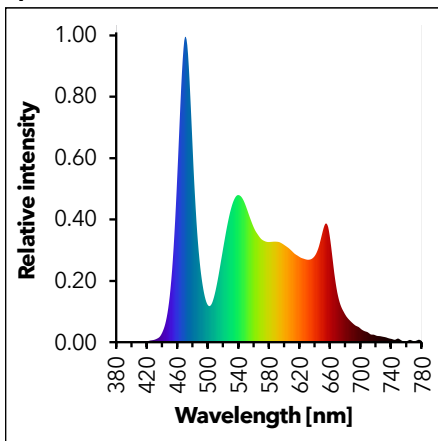
| Beam angle | Total lumen output (integrating sphere) | Total lumen output (goniophotometer) | Peak candela | Power |
|------------|---|--------------------------------------|--------------|-------|
| 60.6°      | 7528 lm                                 | 6017 lm                              | 9725 cd      | 403 W |



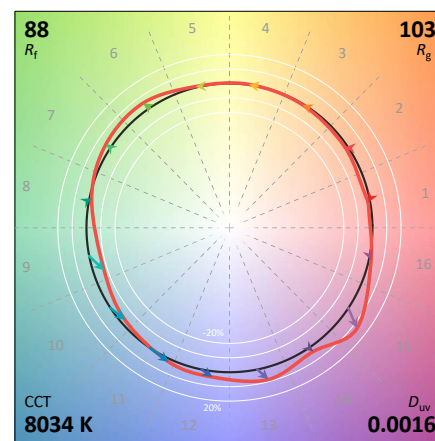
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

| Distance          | 5 m      | 10 m     | 15 m     | 20 m     | 30 m    | 40 m    | 50 m    | Total lumens |
|-------------------|----------|----------|----------|----------|---------|---------|---------|--------------|
| 8000 K            | 389/36.1 | 97.3/9   | 43.2/4   | 24.3/2.3 | 10.8/1  | 6.1/0.6 | 3.9/0.4 | 6017         |
| 8000 K Quiet mode | 338/31.4 | 84.5/7.9 | 37.6/3.5 | 21.1/2   | 9.4/0.9 | 5.3/0.5 | 3.4/0.3 | 5228         |
| 5600 K            | 361/33.5 | 90.3/8.4 | 40.1/3.7 | 22.6/2.1 | 10/0.9  | 5.6/0.5 | 3.6/0.3 | 5584         |
| 4200 K            | 360/33.4 | 90/8.4   | 40/3.7   | 22.5/2.1 | 10/0.9  | 5.6/0.5 | 3.6/0.3 | 5568         |
| 3200 K            | 316/29.4 | 79/7.3   | 35.1/3.3 | 19.8/1.8 | 8.8/0.8 | 4.9/0.5 | 3.2/0.3 | 4888         |
| 2700 K            | 307/28.5 | 76.8/7.1 | 34.1/3.2 | 19.2/1.8 | 8.5/0.8 | 4.8/0.4 | 3.1/0.3 | 4749         |

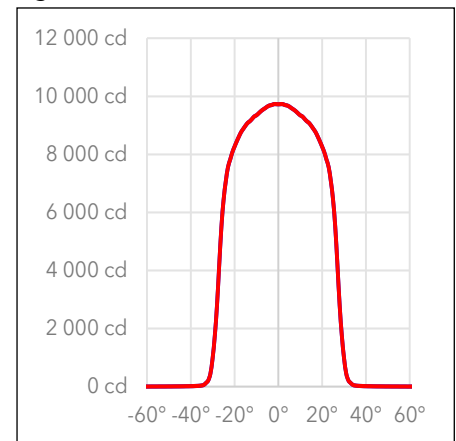
### Spectrum



### TM-30



### Light distribution



|                            |     |        |
|----------------------------|-----|--------|
| Color temperature          | CCT | 8034   |
| Color Deviation from Black | Duv | 0.0016 |
| Color Coordinate CIE 1931  | x   | 0.2941 |
|                            | y   | 0.3066 |
| Color Coordinate           | u   | 0.1932 |
|                            | v   | 0.3020 |

|                              |         |     |
|------------------------------|---------|-----|
| Color rendering index        | CRI     | 91  |
| Red component                | CRI R9  | 91  |
| Color fidelity               | TM30 Rf | 88  |
| Color gamut                  | TM30 Rg | 103 |
| Television consistency Index | TLCI    | 91  |

Fixture settings: DMX mode: 1; Fans: Auto; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam

Measurement date: 01.09.2022

## T11 Profile™



## T11 Fresnel™



## T11 PC™



## T11 MFS™





PROFILE™  
FRESNEL™  
PC™  
MFS™



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