The new Fresnel generation

The ideal tool for wash light, back and side lighting. Tibo LED Fresnel is an innovative, energy efficient lighting tool featuring an excellent optical system. All Tibo LED units have a flicker-free ballast which makes them suitable for film, television and studio environments as well as in conventional theatre.

**Features**

- **Continuous 360° rotation of the fixture**: adjustment of the projected image is always possible
- **Theatre front cassette**: no light spill to distract audiences or performers
- **Colour runners**: double runners to hold accessories and colour filters
- **Barn door**: unique barn door with 4 individually rotating blades – makes even the most difficult angle possible
- **DMX**: 8 or 16 bits dimming and strobe function
- **Parameters**: adjustable curves and response thru 4-button display with automatic light switch-off
- **Control**: local, DMX, wireless DMX (option)
- **Smooth focus adjustment**: from top and bottom with a user-friendly system
- **Tilt reference on hanging yoke**: index for rapid repositioning

**Optical**

- **Very long-life lamp source**: 50 000 hours - Lumen maintenance greater than 70% after 50 000 hours
- **Beam range**: Fresnel lens and light source are fixed. Beam angle made by moveable lens.
- **Wash effect**: soft edges, very even beam
- **No colour shift**: colour temperature remains the same when dimming

**Construction**

- **Made in France**: fully manufactured in Robert Juliat premises retaining complete control over all aspects of quality
- **Power connectors**: neutriK® powerCON TRUE1 IN and OUT connectors for daisy chaining
- **Separate electronic flicker-free PSU**: can be separate or on yoke
- **Silent-running cooling fans**: ideal for TV studios and opera houses
- **Electronic thermal management system**: ensures maximum performance of the system without any risk of overheating
- **Bodywork**: die cast aluminium housing
- **Captive knobs and handles**: additional security when working at height or in transit
- **Spare parts and accessories**: uniform across the tungsten, LED or HID TIBO range, reducing running costs
- **Safety first**: front accessories safety cable attachment point
- **Aesthetic impact**: no safety grid
**LED specifications**

<table>
<thead>
<tr>
<th></th>
<th>Power</th>
<th>Lumen output</th>
<th>Colour temperature</th>
<th>Life</th>
<th>CRI</th>
<th>(*) manufacturer's data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tibo 75W CW (Robert Juliat)</td>
<td>75 W</td>
<td>6 000 lm</td>
<td>6500K</td>
<td>50 000 h</td>
<td>82</td>
<td></td>
</tr>
</tbody>
</table>

**Optics**

- **Type**: Single lens
- **Beam range**: 54° to 85°
- **Lens**: 130 mm Fresnel lens

**Characteristics**

- **Shape**: Square
- **Standard size**: 138x138 mm (5.4x5.4 in)

**Photometrics**

- **Optics @ 54°**
  - Distance: 1 m, 2 m, 3 m, 4 m, 5 m, 6 m
  - Diameter: 1 m, 2.1 m, 3.1 m, 4.2 m, 5.2 m, 6.2 m
  - Illumination: 1 850 lux, 470 lux, 210 lux, 120 lux, 75 lux, 55 lux
  - Field angle: 35°, 55°
  - Beam angle: 50%
  - Beam intensity: 1 840 cd
  - CCT: 6 400 K
  - CRI: 86

- **Optics @ 85°**
  - Distance: 1 m, 2 m, 3 m, 4 m, 5 m, 6 m
  - Diameter: 1.9 m, 3.8 m, 5.7 m, 7.6 m, 9.5 m, 11.4 m
  - Illumination: 910 lux, 230 lux, 105 lux, 60 lux, 37 lux, 26 lux
  - Field angle: 31°, 87°
  - Beam angle: 50%
  - Beam intensity: 900 cd
  - CCT: 6 400 K
  - CRI: 86

**Remote control**

- **Data protocol**: USITT DMX512-A, RDM
- **Data IN connector**: 5 pins XLR male
- **Data OUT connector**: 5 pins XLR female

**DMX chart**

<table>
<thead>
<tr>
<th>Mode 1 (1 channels)</th>
<th>Mode 2 (4 channels)</th>
<th>Mode 3 (8 channels)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimmer</td>
<td>Dimmer fine</td>
<td>Dimmer</td>
</tr>
<tr>
<td>Strobe</td>
<td></td>
<td>Dimmer fine</td>
</tr>
<tr>
<td></td>
<td>Dimmer</td>
<td>Strobe</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dimmer master</td>
</tr>
</tbody>
</table>

- **Lamp type**: LED
- **Power**: 75 W

**Gel filter**

- **Standard size**: 138x138 mm (5.4x5.4 in)
- **Shape**: Square

**Source**

- Tibo 75W CW (Robert Juliat)
Power consumption

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Frequency</th>
<th>Current</th>
<th>Power</th>
<th>Power factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>230 V</td>
<td>50 Hz</td>
<td>0.42 A</td>
<td>95 W</td>
<td>&gt;0.98</td>
</tr>
<tr>
<td>120 V</td>
<td>60 Hz</td>
<td>0.8 A</td>
<td>95 W</td>
<td>&gt;0.98</td>
</tr>
<tr>
<td>100 V</td>
<td>60 Hz</td>
<td>0.95 A</td>
<td>95 W</td>
<td>&gt;0.94</td>
</tr>
</tbody>
</table>

Power Supply Unit

- PSU: On yoke - Electronic PSU - Flicker free with PFC
- Lighting unit / PSU cable: Cable attached to unit - length: 1.5 m (4.9 ft)
  Type: 3M ref. 3696 with 12 pins M16 locking connector
- Maximum distance between lighting unit and PSU: 5 m (16 ft)
- Control: Local / DMX
- Protection: Mains: 4A 1P1D breaker - UL /
- Power thru: Neutrik powerCON TRUE1 - Maximum of 35 units (230 V) / 20 units (120 V)
### Model

| 535CW | LED 75 W Single lens luminaire - 130mm Fresnel - 535CW Tibo - Cool White |

### Options

| PCP1716A | 16A blue 2P+E 6h IEC60309 power connector |
| T-RAL9010 | White housing (RAL 9010) |
| W-DMX/T | W-DMX wireless DMX |

### Accessories

| PF100M | 135x135mm metal filter holder |
| EXT/TiboFW | 12 pins Tibo LED white extension cable - length = 3.5m (138") |
| CF100 | 4 rotating leaves on a barndoor - 135x135mm (without safety cable) - Weight: .71 Kg |
| 872 | Doughty "Twenty clamp" with M10 screw/nut for Ø48 to 51mm pipes - SWL: 20Kg - TÜV approved - Weight: .25 Kg |
| 878 | Hook clamp 25x6mm with 23mm M10 screw for Ø35 to 50mm pipes - SWL: 11Kg - Weight: .46 Kg |
| OmegaT2 | Omega bracket with quarter turn bolt sets for PSU - Weight: .42 Kg |
| CS2 | Safety cable Ø3 mm L= 600mm - SWL: 75 Kg |