

# BIOHF

BIO - 1000/1200 W TUNGSTEN



- **Type:** Single lens luminaire
- **Source:** 1000/1200 W Tungsten
- **Optics:** 200 mm Fresnel lens

Single lens

## Reliable and easy to maintain

A large 200 mm lens gives unparalleled light output and quality of beam. The 310H is at home in every venue, large and small, and offers broad coverage with a smooth, even beam. Designed for easy maintenance, this unit has a well-earned reputation for reliability.

### Features

- **Theatre front cassette:** no light spill to distract audiences or performers
- **Colour runners:** double runners to hold accessories and colour filters
- **Barn door:** unique rotating barn door with 4 individually rotating blades – makes even the most difficult angle possible
- **Focus adjustment:** smooth focus adjustment from rear, even when lantern is hot, for a longer lamp life
- **Tilt reference on hanging yoke:** index for rapid re-positioning

### Optical

- **Multiposition socket:** accepts 1000 W and 1200 W lamps
- **Unique 200 mm (8 in) lens:** no equivalent on the market in terms of light output and beam quality

### Construction

- **Made in France :** fully manufactured in Robert Juliat premises retaining complete control over all aspects of quality
- **Air vents:** efficient cooling with no light spill
- **Bodywork:** strong sheet metal construction for durability
- **Moving parts:** smooth at all times, even when hot
- **Captive knobs and handles:** additional security when working at height or in transit
- **Access:** easy access to lamp house and lenses through front opening for fast and efficient maintenance
- **Easy access to all parts:** easy cleaning, re-lamping and maintenance
- **Safety grid:** earthed safety grid fitted as standard
- **Safety first:** front accessories safety cable attachment point

Picture:310H

DSEN005\_310HF - 23/03/2022

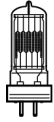
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ROBERT JULIAT

## Source



- **Lamp type:** Tungsten
- **Socket:** Gx9.5

| Admissible lamps               | Power * | Lumen output* | Colour temperature* | Life* |
|--------------------------------|---------|---------------|---------------------|-------|
| LIF: T19 (T11) - ANSI: FWP/FWR | 1 000 W | 21 000 lm     | 3050K               | 750 h |
| LIF: CP70 - ANSI: FVA/FVB      | 1 000 W | 26 000 lm     | 3200K               | 200 h |
| LIF: T29 - ANSI: FWS/FWT       | 1 200 W | 29 000 lm     | 3050K               | 400 h |
| LIF: CP90                      | 1 200 W | 30 000 lm     | 3200K               | 200 h |

(\*) manufacturer's data

## Optics

### Characteristics

- **Type:** Single lens
- **Beam range:** 6° to 46°
- **Lens:** 200 mm Fresnel lens

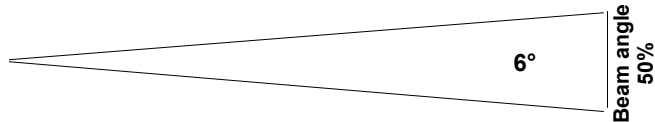
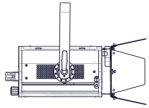
### Gel filter

- **Shape:** Square
- **Standard size:** 215x215 mm (8.5x8.5 in)

## Photometrics

with LIF: CP90 source

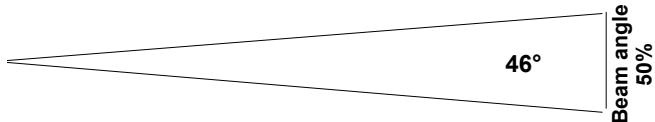
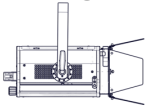
### • Optics @ 6°



**Beam intensity**  
220 000 cd

|                     |            |           |           |           |           |         |
|---------------------|------------|-----------|-----------|-----------|-----------|---------|
| <b>Distance</b>     | 3 m        | 5 m       | 7 m       | 10 m      | 12 m      | 15 m    |
| <b>Diameter</b>     | 0.3 m      | 0.5 m     | 0.7 m     | 1 m       | 1.3 m     | 1.6 m   |
| <b>Illumination</b> | 24 500 lux | 8 900 lux | 4 500 lux | 2 250 lux | 1 550 lux | 980 lux |
| <b>Distance</b>     | 10 ft      | 15 ft     | 25 ft     | 35 ft     | 40 ft     | 50 ft   |
| <b>Diameter</b>     | 1 ft       | 1.6 ft    | 2.6 ft    | 3.7 ft    | 4.2 ft    | 5.2 ft  |
| <b>Illumination</b> | 2 250 fc   | 980 fc    | 360 fc    | 180 fc    | 140 fc    | 90 fc   |

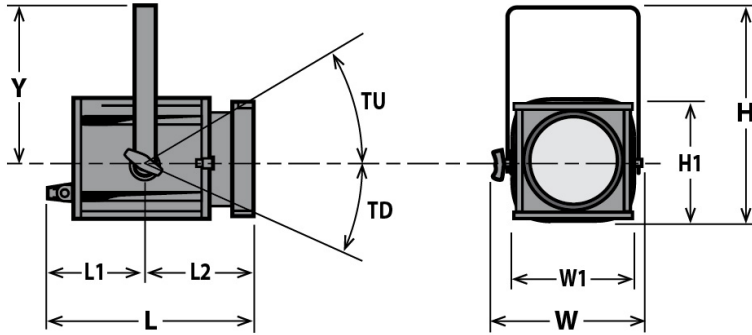
### • Optics @ 46°



**Beam intensity**  
25 000 cd

|                     |           |           |         |         |         |         |
|---------------------|-----------|-----------|---------|---------|---------|---------|
| <b>Distance</b>     | 3 m       | 5 m       | 7 m     | 10 m    | 12 m    | 15 m    |
| <b>Diameter</b>     | 2.5 m     | 4.2 m     | 5.9 m   | 8.5 m   | 10.2 m  | 12.7 m  |
| <b>Illumination</b> | 2 800 lux | 1 010 lux | 520 lux | 260 lux | 180 lux | 120 lux |
| <b>Distance</b>     | 10 ft     | 15 ft     | 25 ft   | 35 ft   | 40 ft   | 50 ft   |
| <b>Diameter</b>     | 8.5 ft    | 12.7 ft   | 21.2 ft | 29.7 ft | 34 ft   | 42.4 ft |
| <b>Illumination</b> | 260 fc    | 120 fc    | 41 fc   | 21 fc   | 16 fc   | 11 fc   |

## Dimensions and weight



**Weight:** 7.7 kg (16.9 lbs)

| Height                                     | Length   | Width                                      | Yoke                | Tilt                |
|--|--|--|---------------------|---------------------|
| H= 440 mm (17.3 in)<br>H1= 250 mm (9.8 in) | L= 465 mm (18.3 in)<br>L1= 260 mm (10.2 in)<br>L2= 205 mm (8.1 in) | W= 350 mm (13.8 in)<br>W1= 250 mm (9.8 in) | Y= 315 mm (12.4 in) | TU= TBD°<br>TD= 90° |

## Shipping

- **Weight :** 9.2 kg (20.2 lbs)
- **Volume :** .06 m<sup>3</sup> (2.26 ft<sup>3</sup>)

## Installation

- **Minimum distance to illuminated surface:** 1.1 m ( 3.6 ft )
- **Operating position:**



## Warranty

- **Fixture: 2 years**  
See General Sales Condition on website

## Approvals



## Construction

- **Housing:** Steel sheet - Aluminium
- **Colour:** Black
- **Cooling:** Convection cooling
- **Maximum ambient temperature (Ta):** 40°C (104°F)
- **Maximum case temperature (Tc):** 200°C (392°F)
- **Total heat dissipation:** 3 413 BTU/h
- **Ingress Protection (IP) rating:** IP20

## Electrical compatibility

- 230/240 V - 50 Hz
- ~~115/120 V - 60 Hz~~

## Power input



- **Type:** attached power cord
- **Cable:** H07RNF 3G1.5
- **Length:** 3 m (9.8 ft)
- **Power connector:** CEE 7/7 (2P+E NF/Schuko)


## Power consumption

| Voltage | Frequency | Current | Power  |
|---------|-----------|---------|--------|
| 230 V   | 50 Hz     | 5 A     | 1000 W |
| 230 V   | 50 Hz     | 6 A     | 1200 W |











## Model

|              |   |
|--------------|---|
| <b>310HF</b> | 1000/1200 W Tungsten Single lens luminaire - Gx9.5 socket - 200mm Fresnel - 310HF |
|--------------|---|

## Options

|                 |   |   |
|-----------------|---|---|
| <b>PCP1716A</b> | 16A blue 2P+E 6h IEC60309 power connector |  |
|-----------------|---|---|

## Accessories

|                  |   |   |
|------------------|---|---|
| <b>PF1000M2</b>  | 215x215mm metal filter holder<br><b>1 included</b>  |    |
| <b>G1000</b>     | 215x215mm safety grid<br><b>1 included</b>  |    |
| <b>CP70</b>      | CP70 - Gx9.5 1000W 230V 200h 3200K lamp   |    |
| <b>T19 (T11)</b> | T19 (T11) - Gx9.5 1000W 230V 750h 3050K lamp  |    |
| <b>CP90</b>      | CP90 - Gx9.5 1200W 230V 200h 3200K lamp   |   |
| <b>CF1000</b>    | 4 rotating leaves on a rotating barndoor - 215x215mm ( without safety cable) - Poids: 1.03 Kg |  |
| <b>876</b>       | Hook clamp 40x10mm with 28mm M10 screw for Ø35 to 50mm pipes - SWL: 50Kg - Poids: 1.25 Kg     |  |
| <b>880</b>       | Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Poids: 1.36 Kg     |  |
| <b>CS2</b>       | Safety cable Ø3 mm L= 600mm - SWL: 75 Kg  |  |
| <b>CS5</b>       | Safety cable Ø1,5 mm L=300mm for front accessory with karabiner and quick link - SWL: 25 Kg   |  |