EclFresnel JrTW

LED Fresnel FC and Tunable White with colour correction, to replace 650W lamp

EclFresnel JrTW is an advanced LED replacement of traditional 650W Fresnel lamps, featuring 6 colour mixing delivering high precision reproduction of the white spectrum from 2.800 K to 10.000 K with high CRI and an extensive colour reproduction.
The optical system harnesses the power of a 130 W custom LED with 6 colours to create an even projection, beautiful colours and precise white, with added ability to apply +/- green and magenta correction to match other sources of light. Featuring HD dimming and tuning from 2.800 K to 10.000 K version with external battery capabilities, the **EclFresnel** JrTW delivers the performance and quality of output demanded from this level of luminaire.

MAIN FEATURES

- Tunable white 2.800 K - 10.000 K with high CRI and extensive colour mixing
- +/- green and magenta white tuning
- Silent operation for studio and stage use
- Battery ready, compatible with industry standard external batteries (optional)

VERSIONS

Code	Housing
ECLFRESNELJTW	Black
ECLFRESNELJTWWH	White

TECHNICAL SPECIFICATION

LIGHT SOURCE
- Source: 130W 6 colour custom LEDs source (red, orange, cyan, royal blue, green, lime)
- CCT: 2.800 K - 10.000 K
- Luminous flux: (15,5°) 1’610 lm - (55°) 2’952 lm @full
- Lux: (15,5°) 709 lx - (55°) 145 lx @5 m full
- CRI: 91 @3.200 K; 92 @5.600 K
- R9: 95 @3.200 K; 93 @5.600 K
- TLCI: 86 @5.600 K
- TM30 Rf: 88 @3.200 K; 86 @5.600 K
- TM30 Rg: 106 @3.200 K; 104 @5.600 K
- Source life expectancy: > 50.000 h

OPTICS
- Zoom: 15,5° - 55° half peak angle
- Lens diameter: 6” - 150 mm
- Lens type: fresnel zoom lens

COLOUR SYSTEM
- Colour mixing: tunable white + colour
- CCT: CCT control, + / - green correction, tungsten emulation
- White presets: 2.800 K - 10.000 K
- Colour wheel: virtual colour wheel with macros
- Macros: several pre-build macros with adjustable speed

DYNAMIC EFFECTS
- Static colour mode: selection of static colour
- Manual colour mode: manual adjustment of intensity, CT, colour correction from knob
- Auto mode: built-in programs with execution speed adjustment
- Special features: linear crossfade channel from any white to any colour; virtual CTO on colours

BODY
- Hardware on-board: filter frame, 8 doors barndoor, spigot
- Body: sturdy die-cast aluminium body
- Body colour: black, white finishing available

CONTROL
- Protocols: DMX512, RDM, rotatory knob
- DMX channels: 1 / 2 / 5 - 1 / 5 - 2 / 7 / 9 / 12 / 13 / 16 / 19 / 21 channel
- RDM: RDM ready for remote monitoring and settings
- Display: Graphic User Interface
- Firmware upgrade: yes, via USB - DMX interface (UPBOX1) not included
- Other: 16bit control of dimmer and colour

ELECTRONICS
- Dimmer: linear 0 ~ 100% electronic dimmer
- Dimmer curves: 4 selectable dimming modes available
- Strobe / shutter: 1 - 30 Hz, electronic
- LED Control: flicker free frequency with adjustable PWM
- Selectable PWM: 600 ~ 25.000 Hz

ELECTRICAL
- Mains power supply: 100-240V - 50/60Hz
- Max power consumption: 100W
- Output (at 230V): 23 units on a single power line
- Power factor: >0,95

BATTERY
- Battery: 29,6V 4400 mAh external battery (optional ECLFRSJBP4)
- Re-charge connection: connection for external battery throught XLR 4p
- Other: Voltage range: 22,4V-33,6V

PHYSICAL
- Cooling: combination of heat pipe cooling system and low noise fan
- Suspension and fixing: bracket for hanging and positioning
- Signal connection: Amphenol XLR 5p IN/OUT connectors
- Power connection: Neutrik powerCON TRUE1 IN/OUT connectors
- IP rating: 20
- Dimensions (WxHxD): 235x360x260 mm
- Weight: 6 kg

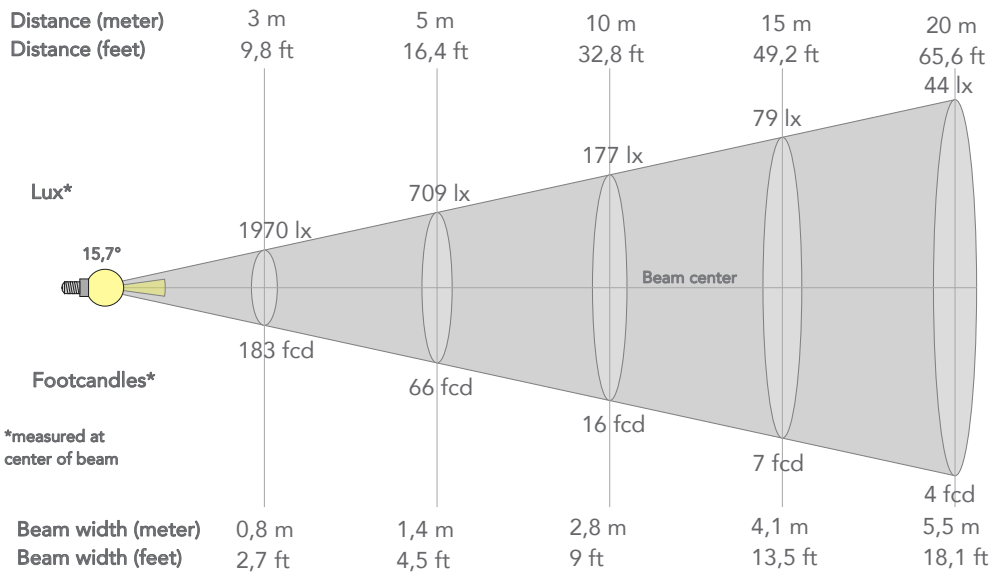
ACCESSORIES & RELATED PRODUCTS

ECLFRSJBP4	Battery pack kit for EclFresnelJ serie
ECLFRSPG	Spigot for PROLIGHTS Fresnel series (included)
ECLFRSJTPG	Filter frame for ECLFRESNELJ series
ECLFRSJBD	Black barn door 8 directional flaps to adjust the light beam (included)
C6040B	Heavy-load aluminum clamp, 500kg loa, 48-51mm tubes, M10 bolt inc., Black
UPBOX1U	Firmware uploader kit, USB IN, 3pin XLR DMX OUT, USB OUT

PRESET FULL ON

Beam angle 50%: 15,5°

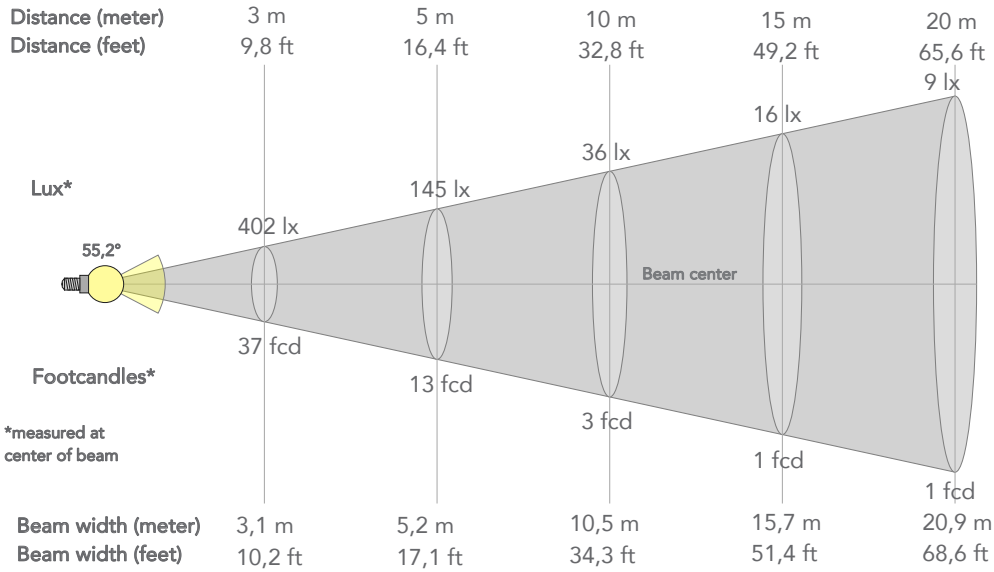
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,7°	27,4°	33,4°	97,7%	95,0%



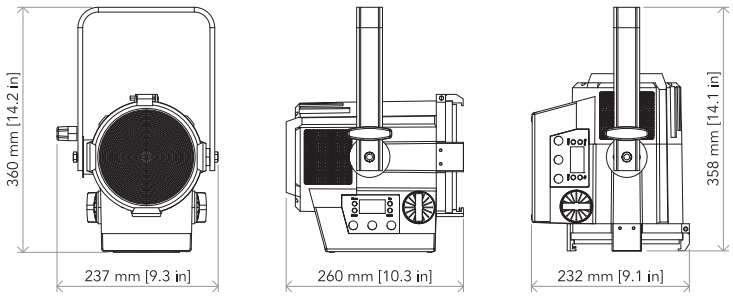
PRESET FULL ON

Beam angle 50%: 55°

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55,2°	80,3°	96,9°	97,8%	94,9%



TECHICAL DRAWINGS



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