EclFresnel JrTW

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

ORDER CODE: **EclFRESNELJTW**

EclFresnel JrTW is an advanced LED replacement of traditional 650 W 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)

TECHNICAL SPECIFICATION

LIGHT SOURCE
- Source: 130 W 6 colour custom LEDs source (red, orange, cyan, royal blue, green, lime)
- CCT: 2.800 K - 10.000 K
- CRI: up to 93 Ra
- R9: up to 96
- Luminous flux: (15°) 1'610 lm - (51°) 2'952lm
- Lux: (15°) 1'970 lx - (51°) 402 lx @3 m
- Lux: (15°) 709 lx - (51°) 145 lx @5 m full
- Source life expectancy: > 50.000 h

OPTICS
- Zoom: 15 ° - 51° manual
- Field angle: 26,7° - 75,6°
- Lens diameter: 6'' - 150 mm
- Lens type: fresnel zoom lens

COLOUR SYSTEM
- Colour mixing: tunable white + colour
- CTC: CTC control through independent DMX channel, + / - green and magenta correction and amber shift activation by DMX
- White presets: 2.800 K - 10.000 K
- Colour wheel: virtual colour wheel with presets
- 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 from a white to any color and CTO applied on colours

BODY
- Hardware on-board: included filter frame, 8 doors barndoor, omega bracket spigot
- Body: sturdy die-cast aluminium body conceived for long-time durability
- Body colour: black

CONTROL
- Protocols: DMX512, RDM, local knob
- DMX channels: 1 / 2 / 5 - 1 / 5 - 2 / 7 / 9 / 12 / 13 / 16 / 19 / 21 channel
- RDM: RDM ready for fixture remote monitor and settings
- Display: black OLED high resolution display
- 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 different dimming curves available
- Strobe / shutter: 1 - 30 Hz, electronic
- Flicker: flicker free frequency with adjustable PWM
- Selectable PWM: 600 ~ 25.000 Hz

ELECTRICAL
- Power supply: 100-240 V – 50/60 Hz
- Power consumption (at 230 V): 107 W
- Power consumption (at 120 V): 111 W
- Output (at 230 V): 23 units on a single power line
- Output (at 120 V): 12 units on a single power line
- Power factor: pF 0,99 @120 V - pF 0,95 @230 V

BATTERY
- Battery: 24 - 34 V 4400 mAh (optional) external battery
- Re-charge connection: XLR 4p

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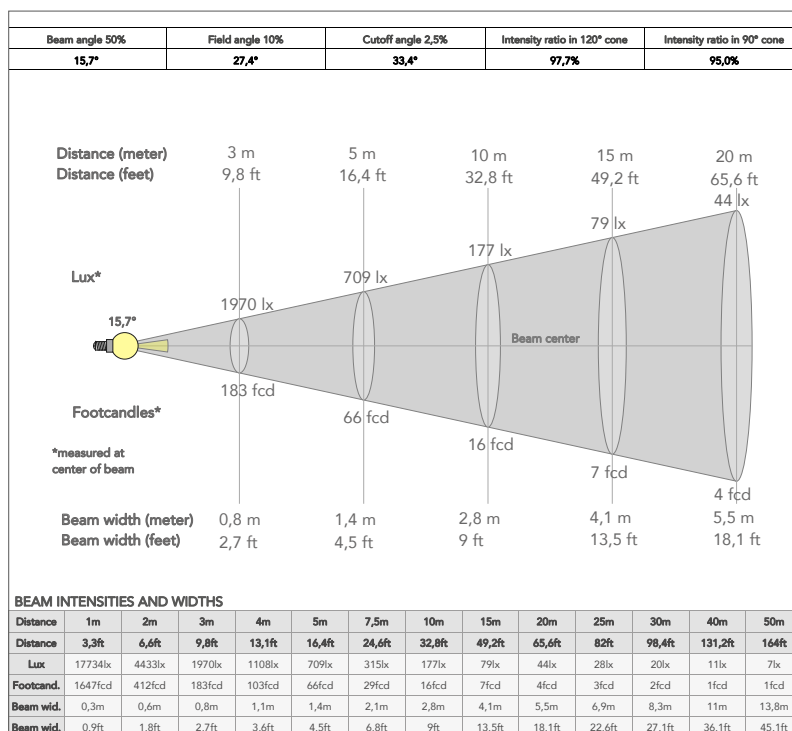- Dimensions (WxHxD): 235x360x260 mm
- Weight: 6 kg

ACCESSORIES & RELATED PRODUCTS

- ECLFRSPG: Spigot for PROLIGHTS Fresnel series (included)
- EclFRSBD: Barn door with directional flaps to adjust the light beam (included)
- ECLFRSJBP4: Battery pack kit for EclFresnelJ serie
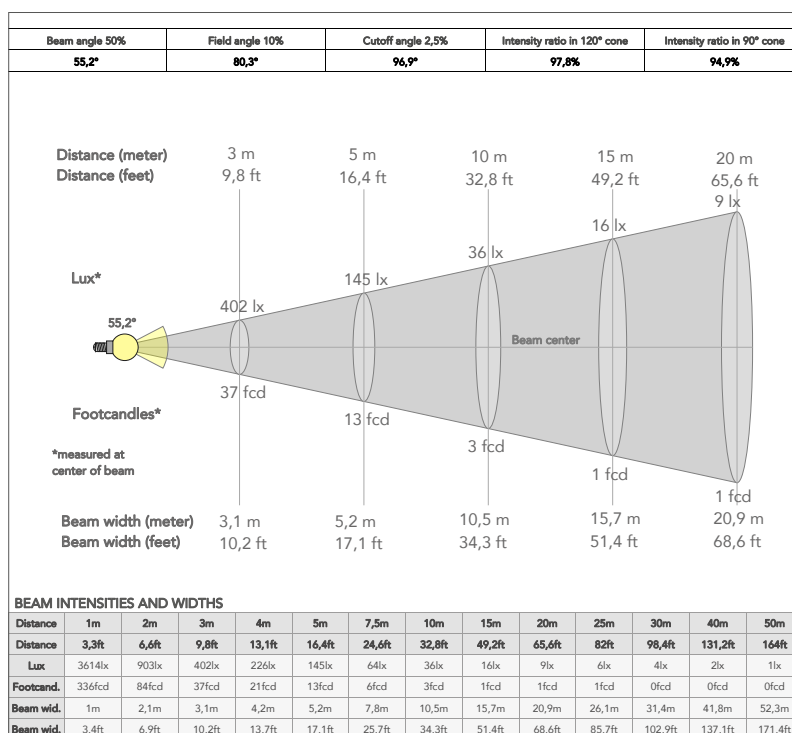- UPBOX1U: Firmware uploader kit, USB IN, 3-pin XLR DMX OUT, USB OUT
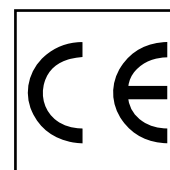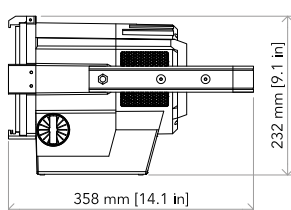
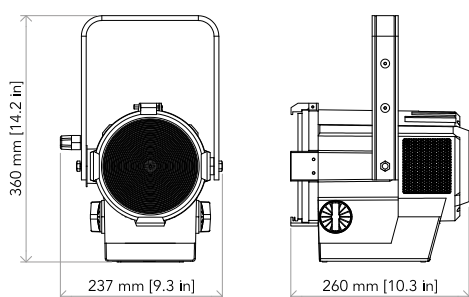## COLOUR PRESET FULL ON
Beam angle 15°

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%

Distance (meter) — 3 m / 5 m / 10 m / 15 m / 20 m
Distance (feet) — 9,8 ft / 16,4 ft / 32,8 ft / 49,2 ft / 65,6 ft

15,7°

Lux* — 1970 lx / 709 lx / 177 lx / 79 lx / 44 lx

Beam center

Footcandles* — 183 fcd / 66 fcd / 16 fcd / 7 fcd / 4 fcd

*measured at center of beam

Beam width (meter) — 0,8 m / 1,4 m / 2,8 m / 4,1 m / 5,5 m
Beam width (feet) — 2,7 ft / 4,5 ft / 9 ft / 13,5 ft / 18,1 ft

BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	17734lx	4433lx	1970lx	1108lx	709lx	315lx	177lx	79lx	44lx	28lx	20lx	11lx	7lx
Footcand.	1647fcd	412fcd	183fcd	103fcd	66fcd	29fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,1m	5,5m	6,9m	8,3m	11m	13,8m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,8ft	9ft	13,5ft	18,1ft	22,6ft	27,1ft	36,1ft	45,1ft

COLOUR PRESET FULL ON
Beam angle 51°

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%

Distance (meter) — 3 m / 5 m / 10 m / 15 m / 20 m
Distance (feet) — 9,8 ft / 16,4 ft / 32,8 ft / 49,2 ft / 65,6 ft

55,2°

Lux* — 402 lx / 145 lx / 36 lx / 16 lx / 9 lx

Beam center

Footcandles* — 37 fcd / 13 fcd / 3 fcd / 1 fcd / 1 fcd

*measured at center of beam

Beam width (meter) — 3,1 m / 5,2 m / 10,5 m / 15,7 m / 20,9 m
Beam width (feet) — 10,2 ft / 17,1 ft / 34,3 ft / 51,4 ft / 68,6 ft

BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3614lx	903lx	402lx	226lx	145lx	64lx	36lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	336fcd	84fcd	37fcd	21fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2,1m	3,1m	4,2m	5,2m	7,8m	10,5m	15,7m	20,9m	26,1m	31,4m	41,8m	52,3m
Beam wid.	3,4ft	6,9ft	10,2ft	13,7ft	17,1ft	25,7ft	34,3ft	51,4ft	68,6ft	85,7ft	102,9ft	137,1ft	171,4ft

TECHICAL DRAWINGS

360 mm [14.2 in]
237 mm [9.3 in]
260 mm [10.3 in]
358 mm [14.1 in]
232 mm [9.1 in]

CE