

HPLED AR-J T

“tunable 3000°K-5700°K ”

Retrofit for Fresnel ARRI Junior 2000



HPLED AR-J T Tunable is a retrofit module that allows a traditional Arri Junior 2000 Fresnel with a halogen lamp to be upgraded into an efficient LED Fresnel with tunable white light from 3000 K (warm white) to 5700 K (cool white), including all intermediate color temperatures. A key feature is the high color rendering performance, with CRI 96 at 3000 K and CRI 94 at 5700 K, making it particularly suitable for use in museums, theatres, and similar applications. Installation is simple. By installing the module, it is possible to eliminate traditional phase-control dimmers and obtain direct control of the fixture via DMX 512 signal. With the HPLED AR-J series, operating costs are reduced, including electricity consumption (180 W), air conditioning, maintenance, and lamp replacement—without the need to purchase new LED fixtures. Made in Italy.



General specifications:

- LED array
- CRI: 96 for 3000°K LED, CRI 94 for 5700°K LED
- LED lifetime (L80, hours at 80% output): 50,000 hours
- 10 presets selectable from the display for manual use without a DMX signal
- 2 programmable programs for operation without a DMX controller
- Dimmer: 8 or 16 bit, 4 selectable curves (Quad, Quad2, Scur, Line)
- Flicker-free control for cameras, frequency range from 1 kHz to 10 kHz
- Smooth dimming (Sfast, Fast, Med, Slow)
- Synchronized electronic strobe (0 to 28 Hz)
- Modes: 5 DMX modes DMX (2 ch, U2 ch, 3 ch, U9 ch,)
- RDM (Remote Device Management)
- Fan with four selectable speeds (LOW, MEDL, MEDH, AUTO), noise level from 12 dB to 32 dB
- Display with four buttons

HPLED AR-Junior can be installed in the following Fresnel :

- Arri Junior 2000 W tungsteno Fresnel

Electrical specifications:

- Power supply: 100–240 V ~ 50/60 Hz, auto-setting
- Power consumption: 180 W, $\cos\phi$ 0.98
- Signal connectors: Neutrik 5-pin XLR (IN and OUT)
- Firmware update: via DMX connectors

Compliance:

- Compliant with applicable standard

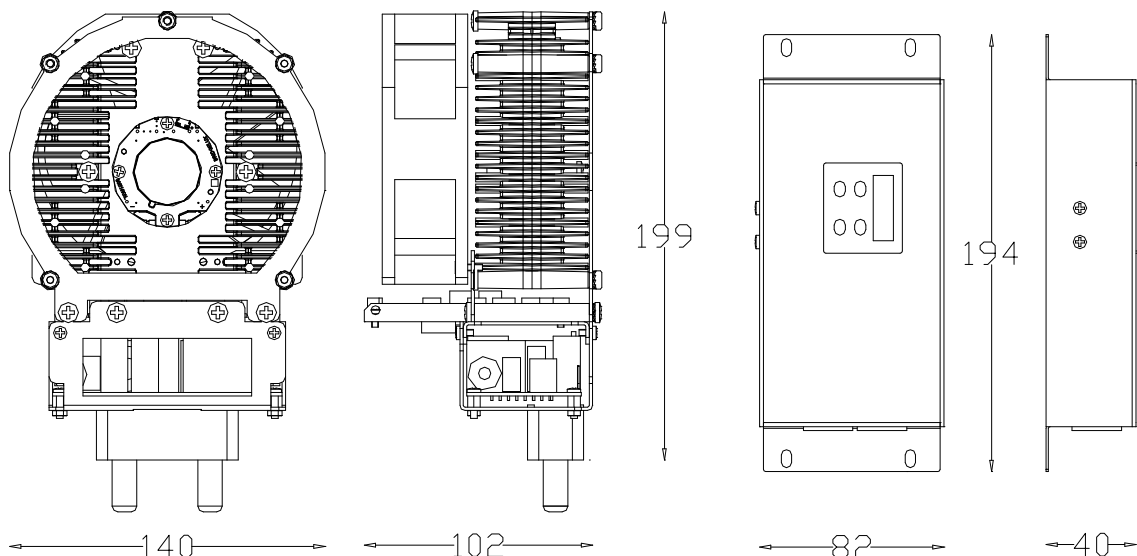


Thermal specifications:

- (Ta): -10 °C to +35 °C
- Temperature sensor on LED
- Temperature sensor on driver board

Dimensional specifications:

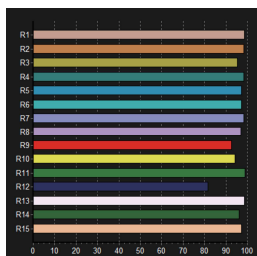
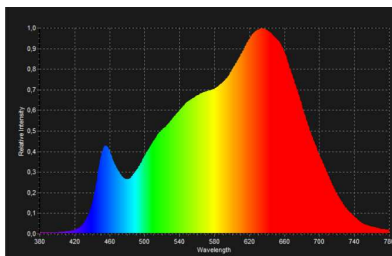
- See drawing:
- Net weight 1,7 Kg
- Packed weight 3.0 Kg
- Packaging volume: 0.015 m³



Photometric data LED 3000°K CRI 96

Indicative measurements taken at the center with the fixture powered on for 30 minutes at an ambient temperature of 25 °C.

	Distance m	4 m	6 m	8 m	10 m	12 m	14 m
Arri Junior 2000 zoom 16°	Lux	2.625	1.167	656	420	292	214
	Diameter ø m	1,01	1,51	2,02	2,52	3,03	3,53
Arri Junior 2000 zoom 66°	Lux	672	299	168	108	75	55
	Diameter ø m	4,56	6,84	9,12	11,4	13,68	15,97



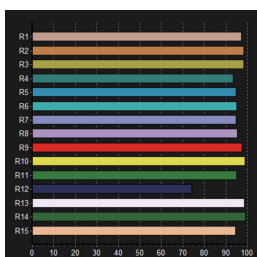
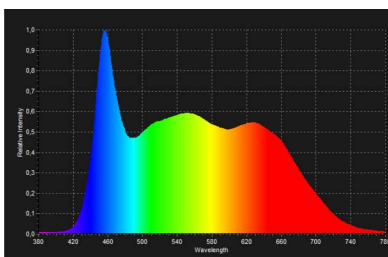
White 3000° CRI 96

White 3000° Curve

Photometric data LED 5700°K CRI 94

Indicative measurements taken at the center with the fixture powered on for 30 minutes at an ambient temperature of 25 °C.

	Distance m	4 m	6 m	8 m	10 m	12 m	14 m
Arri Junior 2000 zoom 16°	Lux	3.188	1.417	797	510	354	260
	Diameter ø m	1,01	1,51	2,02	2,52	3,03	3,53
Arri Junior 2000 zoom 66°	Lux	797	354	199	128	89	65
	Diameter ø m	4,56	6,84	9,12	11,4	13,68	15,97



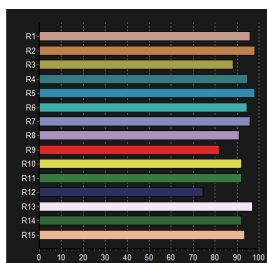
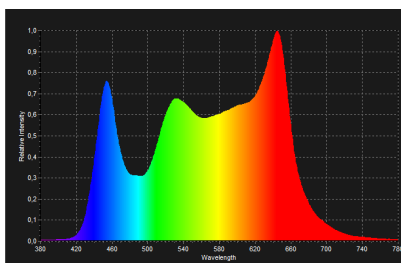
White 5700° CRI 94

White 5700° Curve

Photometric data LED 4000°K CRI 95

Indicative measurements taken at the center with the fixture powered on for 30 minutes at an ambient temperature of 25 °C.

	Distance m	4 m	6 m	8 m	10 m	12 m	14 m
Arri Junior 2000 zoom 16°	Lux	4.406	1.958	1.102	705	490	360
	Diameter ø m	1,01	1,51	2,02	2,52	3,03	3,53
Arri Junior 2000 zoom 66°	Lux	1.313	583	328	210	146	107
	Diameter ø m	1.094	486	273	175	122	89



White 4000° CRI 95

White 4000° Curve

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