# ReLite LED Series



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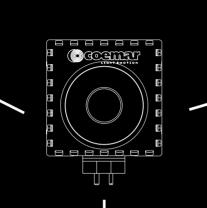
# What's a ReLite?

LED lighting has completely changed the lighting industry. However, replacing lighting installations based on halogen/ discharge lamps can be very expensive and it is hard to find a reliable solution to every luminaire on the market. For this reason, our R&D team designed the ReLite LED Series, the LED retrofit solution for any old fixtures fitted with traditional bulbs (e.g. Arri, DeSisti, ETC, Niethammer, Robert Juliat).



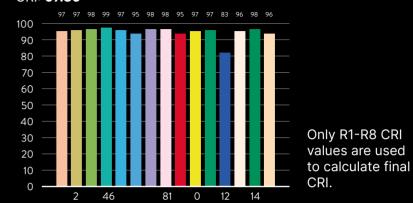
**Strong luminous flux** 

Thanks to the most advanced technologies, the light output of these retrofit LED is comparable to the performance of traditional lamps.

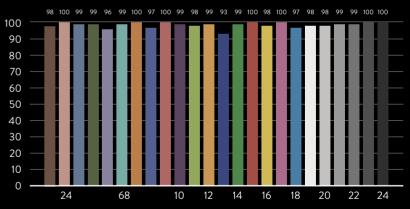


High quality light

The best light quality possible. High CRI is always recommended when the color rendering has priority versus the general light output (e.g. HD broadcast applications or museum installations). CRI: 97.39\*



TLCI: 98.02\*



#### CCT: 3144K\*

\*Measurements taken with **UPRtek MK350S** on 3200K CRI 97 COB LED



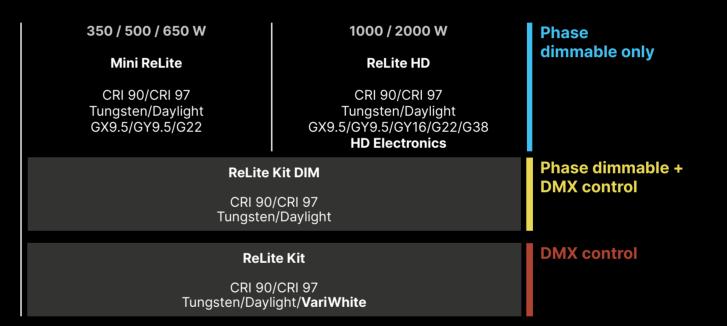
Versatility & Plug and Play

Different sockets to retrofit any fixture & tailor-made LED group.

Two CCT (3200K and 5600K) in two CRI versions available (90 and 97). VariWhite version only with ReLite Kit (CRI>95). Easy installation and no maintenance needed.

# Which ReLite is right for you?

Compare our models: making the right decision has never been easier.





### Does it fit my Iuminaire?

In the following page you will find the list of already tested fixtures with our ReLite products.

Brand ADB

ARRI

DESIST

ETC

LDR

NIETHA

Can't find your model?

Don't worry! We can develop a customized solution for you. Contact our team at: **sales@coemar.com** 

	Model	Туре	Mini ReLite	ReLite HD	ReLite Kit / DIM
	2000 PC C201	2000W/GY16	-	✓	✓
	ADB Dx 205	2000W	-	-	~
	650 PLUS	650W/GY9.5	✓	-	✓
	JUNIOR 650	650W/GY9.5	~	-	✓
	T1	1000W/G22	✓	-	✓
	ST1	1000W/G22	-	~	✓
	1000	1000W/G22	-	✓	✓
	1000 PLUS	1000W/G22	✓	-	✓
	1000 STUDIO	1000W/G22	-	✓	✓
	Т2	2000W/G38	-	✓	✓
	T2 TRUE BLUE STUDIO	2000W/G38	-	✓	✓
	2000	2000W/G38	-	✓	✓
	2000 STUDIO	2000W/G38	-	✓	✓
1	MAGIS 300	650W/GY9.5	✓	-	✓
	LEONARDO 1000	1000W/G22	-	✓	✓
	LEONARDO 2000	2000W/G38	-	<b>~</b>	✓
	SOURCE FOUR PAR	375, 550,575,750W	-	-	✓
	TONO F 2000	2000W/G22	-	-	✓
	NOTA F 1200	1000W/GX9.5	~	-	~
MMER	ENIZOOM 1000	1000W	-	-	✓
	ENIZOOM 2000	2000W	-	-	~



QUARTZCOLOR	POLARIS	1000W/G22	-	✓	✓
	POLARIS MOD. 261	1000W/G22	-	-	✓
	QUARTZCOLOR 1000	1000W/G22	-	-	✓
	STUDIO 1KW MK2	1000W/G22	-	~	✓
	STUDIO 2KW MK2	2000W/G38	-	✓	✓
RANK LIGHTING	CASTOR	2500W/GX38Q	-	✓	✓
ROBERT JULIAT	S 613/614	1000W/GX9.5	-	-	✓
	S 700		-	-	✓
	ALEX 2000/2500W FOLLOWSPOT	2000/2500W	-	-	✓
SELECON	ACCLAIM FRESNEL	650W	-	-	✓
	PACIFIC	1000W	-	-	✓
	Compact	1000/1200W	-	-	✓
	FRESNEL 1.2KW RAMA 150		-	-	✓
	FRESNEL, 1.2KW RAMA 175 HP		-	-	✓
	2KW SELECON ARENA	2000W	-	-	~
SPOTLIGHT	COM 12		✓	-	✓
	COM 25		-	~	~
STRAND	HARMONY PC	1000W/GX9.5	-	-	✓
TEATRO	ACUTO	2000W	-	✓	✓



# Save money and Be Green

### 

#### LED Lifetime

LED lights are the most long lasting lighting systems: with a lifetime exceeding 50.000 hours, LED have a far longer lifespan than halogen light bulbs.

#### No mantainance

ß

No bulbs needs to be replaced every month. This means less money for halogen lamps and labor.

#### Save money

\$

Savings in operational costs such as electricity, air conditioning, replacement bulbs or new LED fixtures are major benefits of ReLite Series.



#### Be green

LED lighting is the most energy saving system on the market. No heat generated means a limited amount of air conditioning necessary. No new fixtures: recycle your own with ReLite.



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# **ReLite Series** Discover our models



### Want the best in class performance?



### Mini ReLite

∲ 70 W

Tungsten 3200K
 DayLight 5600K
 CRI90/CRI97
 Flickerfree Operation

• GX9.5/GY9.5/G



### **ReLite HD**

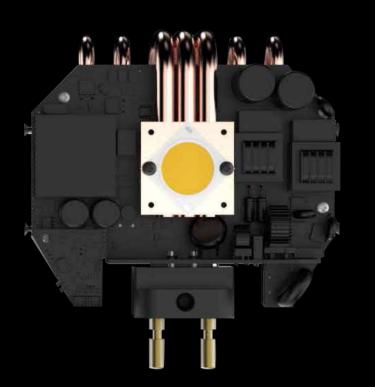
Tungsten 3200K
 DayLight 5600K
 CRI90/CRI97
 Flickerfree Operation

⊙ GX9.5/GY9.5/G

HD Electronics



# HD Electronics Top performance Compact size







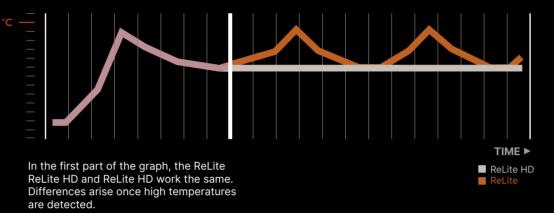
### 1. Stable Luminous Flux

Internal memory and temperature sensor

Thanks to the internal microprocessor and sophisticated HD electronics, consisting of a temperature sensor combined with the internal memory, the ReLite HD identifies the optimal equilibrium temperature and stores it as a reference even after the luminaire has been turned off

#### First power on

Next ignition cycle



#### **ReLite HD vs ReLite**

Thanks to HD electronics, if the temperature inside the fixture rises, the new ReLite HD will keep working at the optimal memorized temperature thus avoiding the instability of the luminous flux. This is fundamental where cameras and digital equipment are in use: the slight change in luminosity would be immediately visible through the camera.

On the contrary, the old ReLite can not guarantee the stability of the light output. This is not a problem in theatres and museums, since this change is not visible to the human eye but might be relevant in TV Studios, where the dimming

might be relevant in TV Studios, where the dimming often varies and the stability of the light output is fundamental.



#### **Dip Switch**

ReLite HD features also 2 DIP switches: the first one allows the adjustment of the fan speed (pag.22) and the other one the reset of the ReLite HD.

#### Why?

If a user needs to use the same ReLite HD in different fixtures, it will be necessary to reset the internal memory: in this way the ReLite HD will forget the optimal equilibrium temperature registered before and will be ready for a new installation.

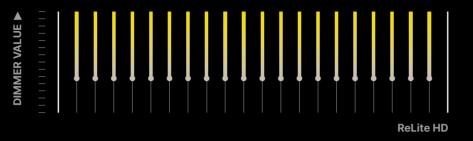


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### 2. Factory calibrated

Each ReLite HD that leaves our factory has been carefully calibrated. This process guarantees the simultaneous ignition of multiple ReLite HD\*.

\*The time-lag until ignition occurs depends on the type of dimmer you are using and its settings.



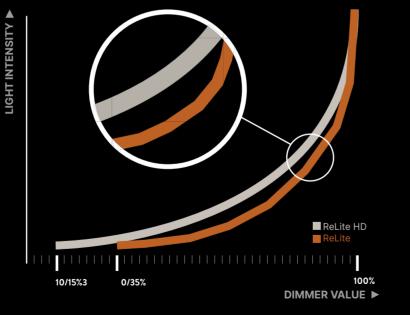


**Pre-Heat Support** 

The ReLite Series supports the Pre-Heat function of traditional dimmers.

This function reduces response time of the ReLite HD during ignition, helps to prolong the LED lifespan and prevents premature failure through the shock of sudden heat. For this reason, we advise you to activate the pre-heat function (if your dimmer supports it). 0-100% Smooth dimming

Thanks to HD electronics, the new ReLite HD has greater control over light dimming and provides a smoother and more precise dimming curve compared to the standard ReLite.





### 3. Double dissipation system



# Fan Speed ReLite HD

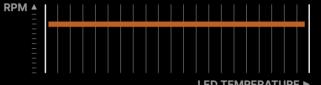


LED TEMPERATURE ►

#### Fan Speed ReLite

**Dynamic Fan** 

available.



The intelligence of ReLite HD enables dynamic control

over the fan, thereby ensuring precise control of the

temperature and the lowest operating noise possible.

Moreover, the fan speed can be set via a DIP switch

in two different operation modes: auto (100%) or low

On the contrary, the standard ReLite operates with a

constant fan speed, since there is no digital control

(75% of the max RPM for guiet environments).

LED TEMPERATURE ►

Pre-Heat Support

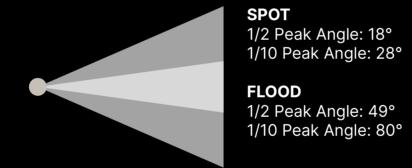
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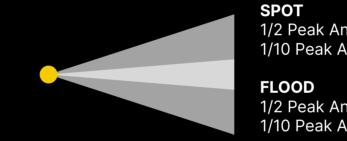


### **ReLite HD vs Halogen lamp** Let's make a comparison

#### DeSisti Leonardo 1000 with ReLite HD



#### DeSisti Leonardo 1000 with Philips 1000W lamp



#### 1/2 Peak Angle: 7.5° 1/10 Peak Angle: 16.5°

### 1/2 Peak Angle: 56° 1/10 Peak Angle: 66°

		1/2 PEAK ANGLE	1/10 PEAK ANGLE	LUX
MIN. ZOOM	ReLite HD	18°	28°	5.849
DISTANCE 3m	Philips 1000W lamp	7.5°	16.5°	12.444
MAX. ZOOM	ReLite HD	49°	80°	1.067
DISTANCE 3m	Philips 1000W lamp	56°	66°	1.222



In order to create a fair comparison, we compared the light output of the two different light sources using the same spot / flood beam angle. For example, since the spot beam angle of the DeSisti Leonardo 1 kW with Philips 1000W lamp is narrower than the one with ReLite HD, we set both products at the same spot beam angle (28° 1/10 P.A.). And as you can see in the chart, the result is a better light output of the DeSisti Leonardo 1 kW Leonardo with ReLite HD (+ 14%).

On the contrary the flood

beam angle of the Leonardo 1 kW with ReLite HD is wider than the one with the lamp: following the same procedure we set both fixtures at the same flood beam angle (66° 1/10 P.A.). In this case too, the ReLite HD performs better than the lamp (+ 24%).

		1/2 PEAK ANGLE	1/10 PEAK ANGLE	LUX	MARGIN
MIN. ZOOM	ReLite HD	18°	28°	5.849	+ 14%
DISTANCE 3m	Philips 1000W lamp	7.5°	16.5°	12.444	
MAX. ZOOM	ReLite HD	49°	80°	1.067	+ 24%
DISTANCE 3m	Philips 1000W lamp	56°	66°	1.222	



# **ReLite LED Kit** The new generation of LED Retrofit Kit

ReLite Kit includes all the advantages offered by our ReLite Series, such as the easy installation, the considerable energy/ cost saving and reduction in maintenance costs.

### But what makes it unique?

The improved light output and the total flexibility of use. Compared to the standard ReLite version, this customdesigned ReLite Led Kit features an external box that keeps the electronics outside the fixture, thus avoiding the overheating of the projector and consequently the instability of the luminous flux.

Last but not least, you will have the possibility to transform your fixed white fixture into a variable white LED luminaire.



# **ReLite Kit Series** Discover our models





### ReLite Kit +

- Max power depending on the LED module and the size/model of the fixture
- Tungsten 3200K
   Daylight 5600K
   VariWhite (2700-6500K)
   CRI90/CRI97
   Flickerfree Operation
- Oustom sockets
- DMX control



### **ReLite Kit DIM**

- <sup>4</sup> Max power depending on the LED module and the size/model of the fixture
- Tungsten 3200K
   Daylight 5600K
   CRI90/CRI97
   Flickerfree Operation
- Custom sockets
- Traditional Dimmer and DMX



### 1. Tailormade

Customizable sockets, LED units and wattage

Analyzing the dissipation system and the general fixture characteristics, our R&D team will design the best suitable retrofit kit for your luminaire. In this way you will have the best luminous flux possible in your lighting fixtures.

### 2. External Electronics

Our desire was to make a step forward in LED Technology. Our goal was to transform any old halogen/discharge lighting fixtures in **modern and DMX controllable work tools**.

To make this possible we designed powerful external electronics capable of managing our new LEDs at their full potential.

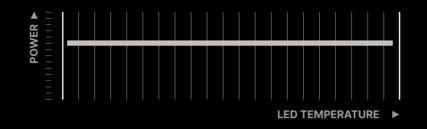
The result is a new retrofitting tool that enables the control of all your lighting equipment via DMX.

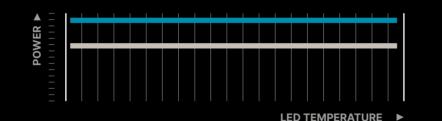


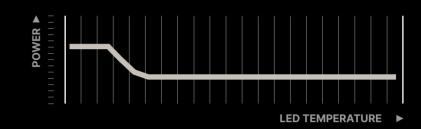
#### ReLite HD ReLite Kit

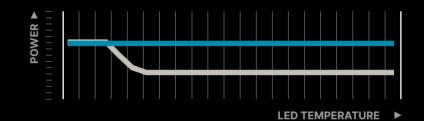
### 2a. The best Iuminous flux

To make you realize its great potential, we are presenting two different situations in which choosing the ReLite Kit would your best option.









#### >2000W

If we are talking about large lighting fixtures (>2.000 W) with an efficient air circulation system, the ReLite HD will work at its max wattage (160W) maintaining a stable luminous flux, without ever reaching the maximum operating temperature.

But if your desire is to increase the performance of the projector, you can think about switching to the ReLite Kit.

The external electronic of the ReLite Led Kit takes away a large amount of heat in the projector: in this way our technicians will be able to increase the LED power and therefore get an improved luminous flux compared to our ReLite HD.

#### <2000W

On the contrary, it is usually harder to have an efficient air circulation system in smaller lighting fixtures with more compact housings. In these cases, the ReLite HD will have to settle down at lower performances to avoid the risk of overheating. It will find its optimal equilibrium temperature and will adapt its power to it. The ReLite Kit instead will never reach the operation limit temperature since it has been engineered to operate in a specific lighting fixture and everything has been optimized to make it work at its best performance possible.



### 3. Key Advantages

- Immediate energy reduction: thanks to the ReLite kit the average energy reduction is approximately 85% compared to the traditional lamp. You should also consider and add the implied reduction from the lower consumption of air conditioning in your studio (e.g. on average replacing a 2kW traditional lamp translates into a overall total saving of circa 3.5kW)
- Status of the art electronics and control. No more need for dimmers
- Environmental friendly solution: this is our contribution to reduce waste and pollution in our world
- You keep your existing housing for your lights: sturdy, reliable and robust traditional housing
- You have a significant saving on your budget compared to buying new LED fixtures. ReLite Kit enables a faster transition to LED
- All parts are serviceable. A full real made in Italy product which guarantee a long term durability of your investment. Coemar will provide 10 years spare parts availability
- No downtime due to lamp failure and reduction of man power for relamping. Our LED will work for over 20.000 hours, compared to just 300 hours of average halogen lamp duration



In the following pages you can find some **ReLite LED Kit** already available. Customization will be possible on your products upon request, contact **info@coemar.com** for more information.



# ReLite LED Kit Series for Fresnel Discover our models





### ReLite LED Kit for Leonardo 2000

330 W

Tungsten 3200K
 Daylight 5600K
 VariWhite (2700-6500K)
 CRI90/CRI97
 Flickerfree Operation

DMX Control



### **ReLite LED kit for ArriStudio 2000**

- 220 W (Fixed White)330 W (VariWhite)
- Tungsten 3200K
   Daylight 5600K
   VariWhite (2700-6500K)
   CRI90/CRI97
   Flickerfree Operation

DMX Control





### ReLite LED Kit VW MK2 for Par ETC

∲ 185 W

- VariWhite (2700-6500K)
   CRI95/CRI97
   Flickerfree Operation
- DMX control



# ReLite LED Kit Series for PC Discover our models

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### ReLite LED Kit for Selecon Arena PC 2500

320 W

- VariWhite (2700-6500K)
   CRI> 95 (Up to 97)
   Flickerfree Operation
- DMX control



### ReLite LED Kit for Robert Juliat 329HPC

- 200 W (Fixed White) 230 W (VariWhite)
- Tungsten 3200K
   Daylight 5600K
   VariWhite (2700-6500K)
   CRI 90 (Fixed White)
   CRI> 95 (Up to 97) (VariWhite)
   Flickerfree Operation
- DMX control



# **ReLite LED Kit Series for Profiles**

Discover our models







### Romeo 600

170 W

Tungsten 3200K
 Daylight 5600K
 VariWhite (2700-6500K)
 RGBCLA (2700-10000K)
 CRI90/CRI97
 Flickerfree Operation

DMX control



### Romeo 700

200 W Maximum (Fixed White)
 230 W Maximum (VariWhite)

Tungsten 3200K
 Daylight 5600K
 VariWhite (2700-6500K)
 RGBCLA (2700-10000K)
 CRI90/CRI97
 Flickerfree Operation

DMX Control





# ReLite LED Kit for ADB DS205

- 220 W (Fixed White)
   290 W (FullSpectrum 6 HD Studio)
- Tungsten 3200K
   RGBCLA (2700-10000K)
   CRI> 95
   Flickerfree Operation
- DMX control



### ReLite LED Kit for EniZoom 2000

- Tungsten 3200K
   Daylight 5600K
   VariWhite (2700-6500K)
   RGBCLA (2700-10000K)
   CRI> 95
   Flickerfree Operation
- DMX control



# **Projects** Discover our references



# **Broadcast** BBC Studio Scotland, UK



#### **ReLite LED Kit DIM D**

CCT 5.600 K

CRI > 95



# **Broadcast** Dunya TV Pakistan





#### **ReLite LED HD T**

CCT 3.200 K

CRI > 97



# **Broadcast** MDR Landesfunkhaus Germany





#### ReLite Kit VariWhite for DeSisti Leonardo 2K

 CCT
 2.700 → 6.500 K

 CRI
 95 up to 97

 Control
 DMX

 Dealer
 Vision Two GmbH



# **Broadcast** SRF Swiss TV





ReLite Kit VariWhite for Strand CastorCCT2.700 → 6.500 KCRI> 95ControlDMXDealerMenzi EBZ



### **Broadcast** Sharjah TV & Radio UAE



#### ReLite Kit VariWhite for Arri ST2

- CCT 2.700 → 6.500 K
- CRI 95 up to 97
- Control DMX
- Dealer United Broadcast



## **Broadcast** Dubai TV

### 



ReLite Kit VariWhite for DeSisti 1K and 2K

- CCT 2.700 → 6.500 K
- CRI > 95
- Control Dimmer and DMX
- Dealer Various



### **Broadcast** YLE National TV Helsinki, Finland





 ReLite Kit VariWhite for DeSisti Leonardo 1K

 CCT
 2.700 → 6.500 K

 CRI
 95 up to 97

 Control
 DMX

 Dealer
 OY LAFOY LTD



### **Broadcast** Sverige TV Sweden



#### ReLite Kit VariWhite & Daylight for DeSisti Leonardo 1K and ARRI T1

- CCT 2.700 → 6.500 K (VW), 5.600 K (D)
- CRI 95 up to 97
- Control DMX
- Dealer Atendi



### **Broadcast** Antena Group Romania





 ReLite LED Kit T Studio for DeSisti Leonardo 1K, Arri ST1, Arri Studio 2K, Arri T2

 CCT
 3.200 K

 CRI
 > 95

 Control
 DMX

 Dealer
 Lights Up Professional



### **Broadcast** NDR Studio Hamburg, Germany



ReLite Kit VariWhite for DeSisti Leonardo 1K

CCT 2.700 → 6.500 K CRI 95 up to 97

Control DMX

Dealer Vision Two GmbH



### **Theatre** Hans Otto Theatre Germany





ReLite Kit VariWhite for Robert Juliat 329HPC CCT 2.700 → 6.500 K

CRI 95 up to 97 Control DMX

Dealer Vision Two GmbH



### **Theatre** Scene Nationale Le Volcan, Le Havre





Romeo 600 FullSpectrum for Robert Juliat 614ColorsRGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)CCT2.700 → 10.000 KCRI> 95ControlDMX



### **Theatre** Dresdner Philarmonie Germany





ReLite Kit VariWhite for EnizoomCCT2.700 → 6.500 KCRI95 up to 97ControlDMXDealerVision Two GmbH



### **Theatre** Le Zephyr Hem, France





Romeo 700 FullSpectrum for Robert Juliat 714ColorsRGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)CCT2.700 → 10.000 KCRI> 95ControlDMX



### **Theatre** Theatre Academy Helsinki, Finland



#### ReLite Kit VariWhite for ADB 1K and Selecon Rama

 CCT
 2.700 → 6.500 K

 CRI
 95 up to 97

 Control
 DMX

 Dealer
 OY LAFOY LTD



### **Theatre** Theatre National de l'Odeon Paris, France





 RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)

 CCT
 2.700 → 10.000 K

 CRI
 > 95

 Control
 DMX



### **Theatre** Carignano Theatre Turin, Italy





Romeo 700 Tungsten for Robert Juliat 714

CCT 3.2 CRI 90



### **Theatre** Théâtre De Louvrais France



Romeo 600 & 700 FullSpectrum for Robet Juliat 614 & 714, ReLite Kit VariWhite for ADB C201

- CCT 2.700 → 6.500 K
- CRI 95 up to 97
- Control DMX
- Dealer Alterlite



### **Theatre** Budapest National Theatre Hungary



#### **ReLite HD T**

CCT **3.200 K** CRI > 97

Dealer Pelyhe Kft.



### **Theatre** Theatre National De Chaillot Paris, France





 ROBECLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)

 CCT
 2.700 → 10.000 K

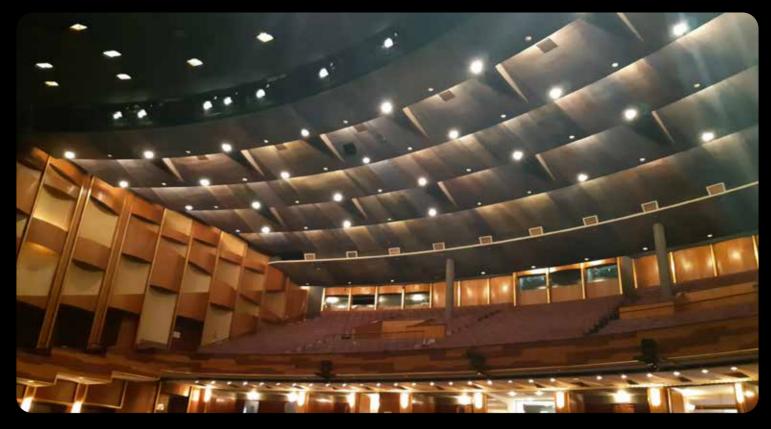
 CRI
 > 95

 Control
 DMX



### **Theatre** Salzburg Festspiele Austria





**ReLite Kit T for Enizoom** 

CCT 3.200 K

CRI 90

Control DMX

Dealer LB-electronics GmbH



### **Theatre** Anthea Theatre Antibes, France





**Romeo 700 FullSpectrum for Robert Juliat 714** 

Colors RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)

CCT 2.700 → 10.000 K

CRI > 95

Control DMX



### **Theatre** Carre Colonnes Saint Medard, France





 RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)

 CCT
 2.700 → 10.000 K

 CRI
 > 95

 Control
 DMX



### **Theatre** Teatro Comunale of Bologna, Italy





#### **ReLite LED HD T**

CCT 3.200 K

CRI > 97



### **Theatre** La Villette Paris, France



Romeo 600 & 700 FullSpectrum for Robert Juliat 614 & 714, ReLite Kit VW for ADB C201, ReLite HD GX9.5

- Colors RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)
- CCT 2.700 → 6.500 K (VW), 2.700 → 10.000 K (FS)
- CRI > 95
- Control DMX
- Dealer Alterlite



### **Theatre** Teatro Maggio Fiorentino Italy



#### ReLite HD T Studio G22

- CCT 3.200 K
- CRI 97



### **Theatre** Théâtre Municipal de Coutances France





#### Romeo 600 & 700 FullSpectrum for Robert Juliat 614 & 714, ReLite Kit VariWhite for ADB

Colors RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)

- CCT 2.700 → 6.500 K (VW), 2.700 → 10.000 K (FS)
- CRI > 95
- Control DMX
- Dealer Alterlite



## **Cultural Center** La Condition Publique A Roubaix France



**ReLite Kit FullSpectrum 6 for Robert Juliat 310 HPC** 

Colors RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)

- CCT 2.700 → 10.000 K
- CRI > 95
- Control DMX
- Dealer VS Scenes



# **Cultural Center** Agence Culturelle France





ReLite Kit T for ADB C101, ReLite Kit FullSpectrum 6 for ADB DW105

Colors RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)

CCT 3.200 K (T), 2.700 → 10.000 K (FS)

CRI > 95

Control DMX

Dealer TSE



## **University** Sibelius Academy Helsinki, Finland





ReLite Kit VariWhite for Selecon Arena and Selecon Arena PC 2500

CCT $2.700 \rightarrow 6.500 \text{ K}$ CRI95 up to 97ControlDMXDealerOY LAFOY LTD



**University** La Maison de l'Université Mont Saint Aignan, France



#### Romeo 700 FullSpectrum for Robert Juliat 714, ReLite LED HD T

 Colors
 RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)

 CCT
 3.200 K (T), 2.700 → 10.000 K (FS)

 CRI
 > 95

Control DMX

Dealer OY LAFOY LTD



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