ReLite LED Series



What's a ReLite?	03
Save Money & Be Green	08
Models	09
HD electronics	11
ReLite vs Lamps	15
ReLite Kit	17
Models	18
Feature	20
ReLite LED Kit Series for Fresnel	23
Models	24
ReLite LED Kit Series for PC	26
Models	27
ReLite LED Kit Series for Profiles	28
Models	29
Projects	31

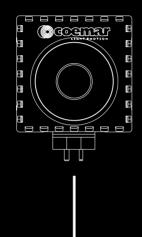
What's a ReLite?

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.



Versatility & Plug and Play

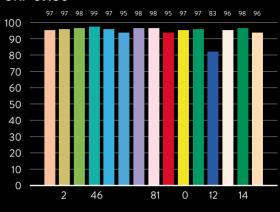
Different sockets to retrofit any fixture & tailor-made LED group.

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.

High quality light

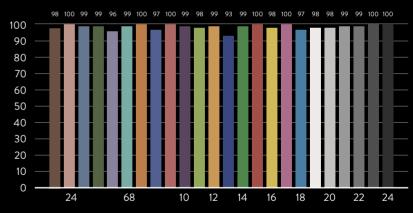
The best light quality possible. High CRI is always recommended when the color rendering has priority versus the general light output (e.g. HD broadcast applications or museum installations).

CRI: 97.39*



Only R1-R8 CRI values are used to calculate final CRI.

TLCI: 98.02*



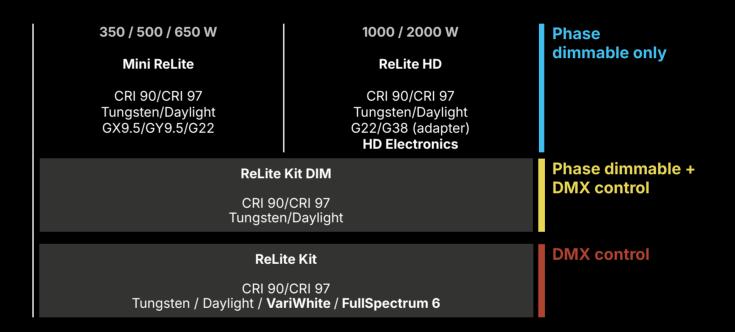
CCT: 3144K*

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



Which ReLite is right for you?

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





Does it fit my luminaire?

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

Can't find your model?

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

Brand	Model	Туре	Mini ReLite	ReLite HD	ReLite Kit / DIM
ADB	2000 PC C201	2000W/GY16	-	-	✓
	ADB DX 205/105	2000W	-	-	✓
	C201 / F201	2000W	-	-	✓
	C101 / F101	1000W	-	-	*
ARRI	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	-	✓	✓
	T2	2000W/G38	-	✓	✓
	T2 TRUE BLUE STUDIO	2000W/G38	-	✓	✓
	2000	2000W/G38	-	✓	✓
	2000 STUDIO	2000W/G38	-	✓	✓
	5000	5000W	-	~	~
DESISTI	MAGIS 300	650W/GY9.5	✓	-	✓
	LEONARDO 1000	1000W/G22	-	✓	✓
	LEONARDO 2000	2000W/G38	-	✓	✓
	LEONARDO 5000	5000W	-	*	✓
ETC	SOURCE FOUR PAR	375, 550,575,750W	-	-	✓
LDR	TONO F 2000	2000W/G22	-	-	✓
	NOTA F 1200	1000W/GX9.5	✓	-	~



Brand	Model	Туре	Mini ReLite	ReLite HD	ReLite Kit / DIM
NIETHAMMER	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	-	-	~
	HPC 310/329		-	-	~
	S 600 SX SX		-		~
	S 700 SX SX		-	-	*
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 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

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.



ReLite Series Discover our models



Want the best in class performance?



Mini ReLite

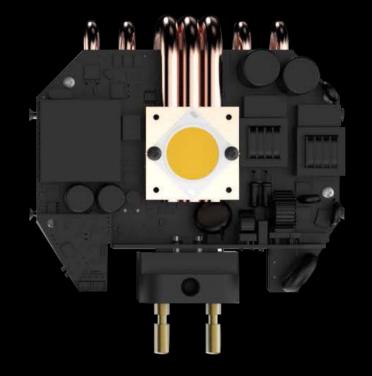
- ₱ 70 W
- Tungsten 3200K
 DayLight 5600K
 CRI90/CRI97
 Flickerfree Operation
- GX9.5/GY9.5/G22/ GY16

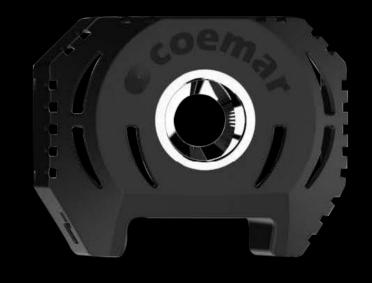


ReLite HD

- ∮ 160 W
- Tungsten 3200K DayLight 5600K CRI90/CRI97 Flickerfree Operation
- © G22/G38 (adapter)
- HD Electronics

HD Electronics Top performance Compact size





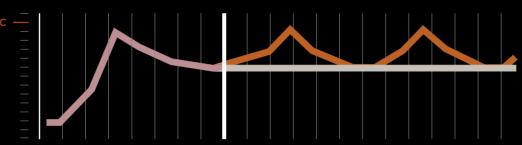


1. Stable Luminous Flux

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









Next ignition cycle

First power on





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 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?

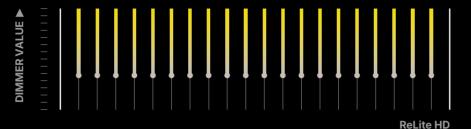
If a user needs to use the same ReLite HD in different fixtures, it will be necessary to reset the internal memory: in this way the ReLite HD will forget the optimal equilibrium temperature registered before and will be ready for a new installation.

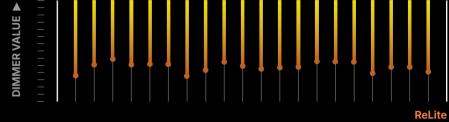


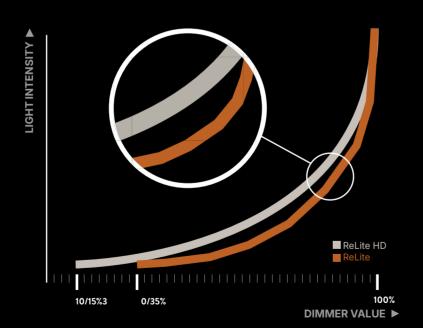
2. Factory calibrated

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

dimmer supports it).

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.

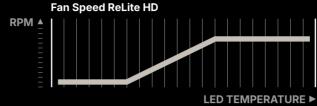
For this reason, we advise you to activate the pre-heat function (if your

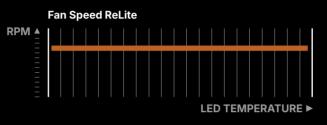
0-100% Smooth dimming

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









Dynamic Fan

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 (75% of the max RPM for quiet environments). On the contrary, the standard ReLite operates with a constant fan speed, since there is no digital control available.

Pre-Heat Support

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

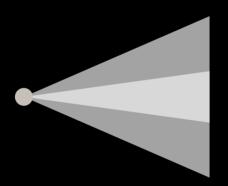
This function reduces response time of the ReLite HD during ignition, helps to prolong the LED lifespan and prevents premature failure through the shock of sudden heat.

For this reason, we advise you to activate the preheat function (if your dimmer supports it).

ReLite HD vs Halogen lamp

Let's make a comparison

DeSisti Leonardo 1000 with ReLite HD



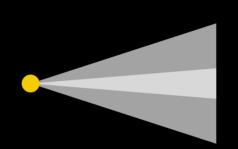
SPOT

1/2 Peak Angle: 18° 1/10 Peak Angle: 28°

FLOOD

1/2 Peak Angle: 49° 1/10 Peak Angle: 80°

DeSisti Leonardo 1000 with Philips 1000W lamp



SPOT

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

FLOOD

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 custom-designed 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) FullSpectrum 6 CRI90/CRI97 Flickerfree Operation
- Custom sockets
- DMX control



ReLite Kit DIM

- 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.

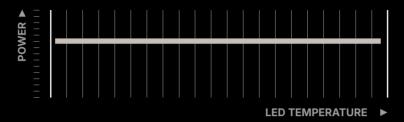
The result is a new retrofitting tool that enables the control of all your lighting equipment via DMX.

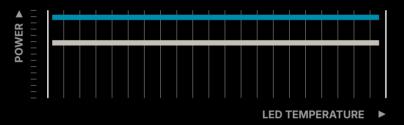
Available in two options: integrated and departed



2a. The best luminous flux

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



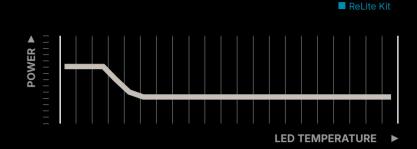


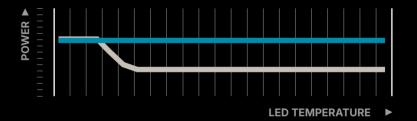
>2000W

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.



■ ReLite HD

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



ReLite LED Kit for Selecon Arena PC 2500

- ** 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





- 4 170 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

- 4 200 W
- Tungsten 3200K Daylight 5600K VariWhite (2700-6500K) RGBCLA (2700-10000K) CRI> 95 Flickerfree Operation
- DMX control

ProjectsDiscover 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

CRI > 97



BroadcastMDR 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



BroadcastSRF Swiss TV





ReLite Kit VariWhite for Strand Castor

CCT 2.700 → 6.500 K

CRI > 95

Control DMX

Dealer Menzi EBZ

BroadcastSharjah TV & Radio UAE



ReLite Kit VariWhite for Arri ST2

CCT 2.700 → 6.500 K

ORI 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 > 9

Control Dimmer and DMX

Dealer Various

BroadcastYLE 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



BroadcastSverige TV Sweden



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

CCT 2.700 → 6.500 K (VW), 5.600 K (D)

ORI 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

TheatreHans 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

TheatreScene Nationale Le Volcan, Le Havre





Romeo 600 FullSpectrum for Robert Juliat 614

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

CCT 2.700 → 10.000 K

CRI > 95

Control DMX



TheatreDresdner Philarmonie Germany





ReLite Kit VariWhite for Enizoom

CCT 2.700 → 6.500 K

CRI 95 up to 97

Control DMX

Dealer Vision Two GmbH

TheatreLe Zephyr Hem, 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

TheatreTheatre Academy Helsinki, Finland



ReLite Kit VariWhite for ADB 1K and Selecon Rama

2.700 → 6.500 K

CRI 95 up to 97

Control DMX

Dealer OY LAFOY LTD

Theatre Theatre National de l'Odeon Paris, 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

TheatreCarignano Theatre Turin, Italy





Romeo 700 Tungsten for Robert Juliat 714

CCT 3.200 K

CRI S

TheatreThéâtre De Louvrais France



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

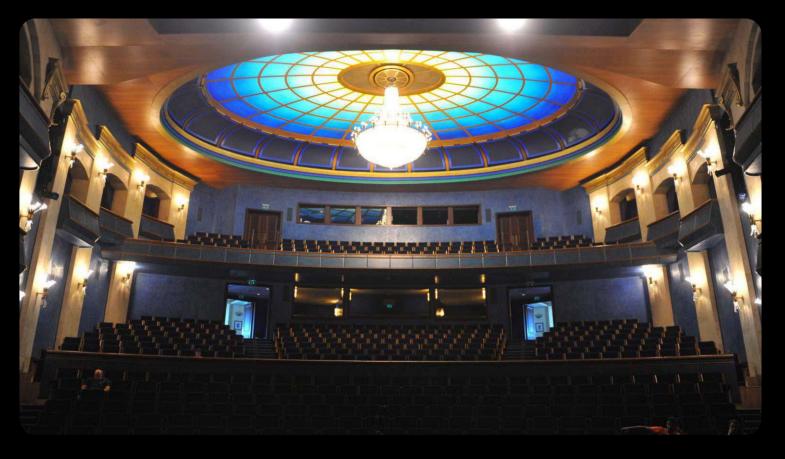
CCT 2.700 → 6.500 K

ORI 95 up to 97

Control DMX

Dealer Alterlite

Theatre Budapest National Theatre Hungary



ReLite HD T

CCT 3.200 K

:RI > 9

Dealer Pelyhe Kft.



Theatre Theatre National De Chaillot Paris, 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



TheatreSalzburg Festspiele Austria





ReLite Kit T for Enizoom

CCT 3.200

CRI S

Control DM

Dealer LB-electronics GmbH

TheatreAnthea 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 DM



TheatreCarre Colonnes Saint Medard, France





Romeo 600 FullSpectrum for Robert Juliat 614

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

CCT 2.700 → 10.000 K

CRI > 95

Control DMX



TheatreTeatro Comunale of Bologna, Italy





ReLIte LED HD T

CCT 3.200

CRI > 9

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

TheatreThéâtre 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 DM>

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)

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 → 6.500 K

CRI 95 up to 97

Control DMX

Dealer OY 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

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