Flex Floodlight R-Series 1 Module 96LED 300W

High-power modular lighting for professional sports facilities and large areas



Flex Floodlights are high performance luminaires with large luminous power, composed of independent modules, with the possibility of varying their format from 1 to 4 modules according to the lighting needs. They have the ability to direct the luminous flux at a specific angle with great precision, exposing only the area of interest to the illumination provided.
Flex floodlights are specially designed to illuminate large sports facilities, perfectly satisfying the lighting requirements needed for sports practice, even for top-level competitions. They are also perfect for special installations such as logistics ports, marinas or airports, where lighting requirements and reliability are critical to ensure visibility and safety for users.
Flex floodlights have different configurations of power and number of LEDs, adapting perfectly to different spaces. They provide high quality lighting and great energy efficiency covering the lighting demands of users, ensuring visibility and visual comfort.
Besides, the R series offers maximum flexibility by adding the remote management service and access to the Aurant platform to control the floodlights. It includes Full Service Remote Management for LED Lightning Module Annual fee (Ref.694801 – 1 Year / Ref.694821 – 10 Years) and NB-IoT Remote Control Node BOX type with connectivity (Ref.695110 – 1 Year / Ref.695120 – 10 Years). With this functionality, it is possible to obtain the maximum performance from an installation, as it allows the luminous intensity to be regulated in real time. It can adapt the same sports space to different applications: from Class III lighting (general training, school use, recreational activities...) to Class I lighting (high-level national and international competitions).
In addition, our commitment to the quality of the night sky and responsible lighting is clear. Thanks to a correct orientation of the light, we can reduce the light impact of Flex floodlights, directing light exclusively to the points of interest and avoiding unnecessary light emissions towards the upper hemisphere of the luminaire.

Ref.	67121100

Other features	
Number of LEDs	96
Connectivity	10 years
Lighting control	Remote control
Power	300.00 W

Physical data	
Net weight	13,213.00 g
Gross volume	40.67 dm^3
Gross weight	14,134.00 g
Width	616.00 mm
Height	238.00 mm
Depth	201.00 mm

Highlights

- **Low wind load:** modular and size-optimized reduces the action of the wind against the floodlight, minimizing the oscillations caused at high altitudes
- **Scalable configuration:** its modular structure allows the variation from 1 to 4 independent modules for floodlight, on a single support, adapting perfectly to the lighting requirements of each situation
- **Durability and resistance:** compact extruded and anodised aluminium structure, corrosion resistant even in the most aggressive environments, successfully passing resistance tests against severe conditions of use (EN 60598-1:2015)
- **Vibration resistance:** robust structure tested against vibrations (EN 60068-2-6:2008)
- **Ease of repair:** access to the inside of the floodlight without having to remove it from the support, allowing the power supply to be replaced on site in case of failure
- **Quick return on investment:** the high light efficiency provides substantial energy savings of up to 80%
- **Minimizes maintenance costs:** due to its long working life and easy component replacement
- **Perfect thermal management:** heat conduction and convection are favoured by the dissipation curves of the luminaire structure
- **High luminous efficiency**
- **Driver certificated ENEC**
- **100% made in Televes:** technology designed and manufactured in our cutting-edge facilities, guaranteeing total control, with demanding quality monitoring, over each of the production phases

Discover

Our ranges of luminaires encompass a wide range of powers and number of LEDs, in addition to being customizable in the types of lighting control, colour temperatures, optics and their light distribution, and finishes. **A product can be configured according to these parameters, and ordered by its numerical or logical reference**, as follows:

Selecting the luminaire by the numerical reference:

This is a numerical code made up of 14 digits:

- The first 6 digits represent a code that depends on the Series of the luminaire, the number of LEDs and the power
- The next 8 digits allow you to choose the configurable parameters of the luminaire: lighting control, colour temperature, type of optics and finish

Series		Dimming		Colour Temperature		Optics		Finish	
631703	*Urban Alameda E 24LED 53W*	00	*No Dimming*	18	*PC Amber*	02	*SP*	02	*Black*
631713	*Urban Alameda E 24LED 39W*	01	*Dimming*	22	*2200K*	11	*D90*	xx	*Custom*
				27	*2700K*	17	*T2-C90*		
				30	*3000K*	18	*T3-B90*		
				40	*4000K*				

Selecting the luminaire by logical reference:

This is an alphanumeric code composed of an unlimited number of characters, describing the luminaire's characteristics using logical abbreviations, to facilitate its interpretation. It is divided into 2 groups of characters, separated by a hyphen:

- The first group specifies: the luminaire series, the number of LEDs, the colour temperature, and the lighting control
- The second group specifies: the type of optics, the finish and the power

An example of a logical reference: UA2418D-D90BL53

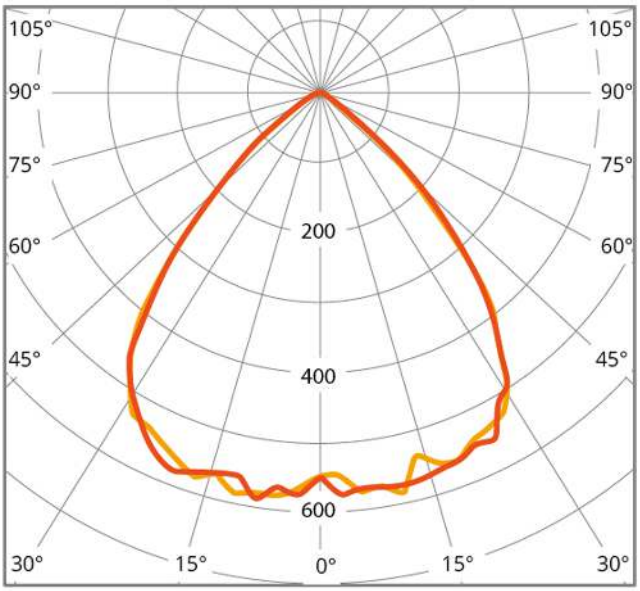
- UA – *Urban Alameda*
- 24 – *24 LEDs*
- 18 – *Colour Temperature: PC Amber*
- D – *Dimming included*

- D90 – *D90 Optics*
- BL – *Black colour*
- 53 – *53W Power*

Range & LED number		Colour Temperature		Dimming		Optics	Finish		Power	
UA24	*Urban Alameda E 24LED*	18	*PC Amber*	(ø)	*No Dimming*	SP	BL	*Negro*	53	*53W*
		22	*2200K*	D	*Dimming*	D90	xx	*Custom*	39	*39W*
		27	*2700K*			T2-C90				
		30	*3000K*			T3-B90				
		40	*4000K*							

Graphic documentation

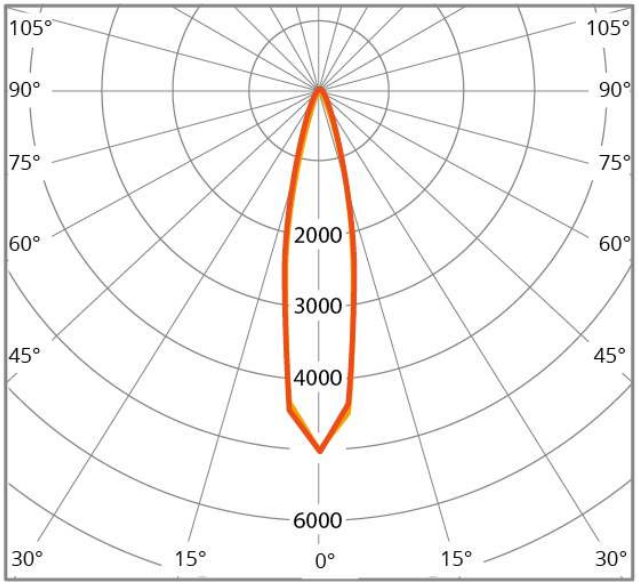
S90



cd/klm C0 - C180 C90 - C270 η = 100%

Light distribution curve

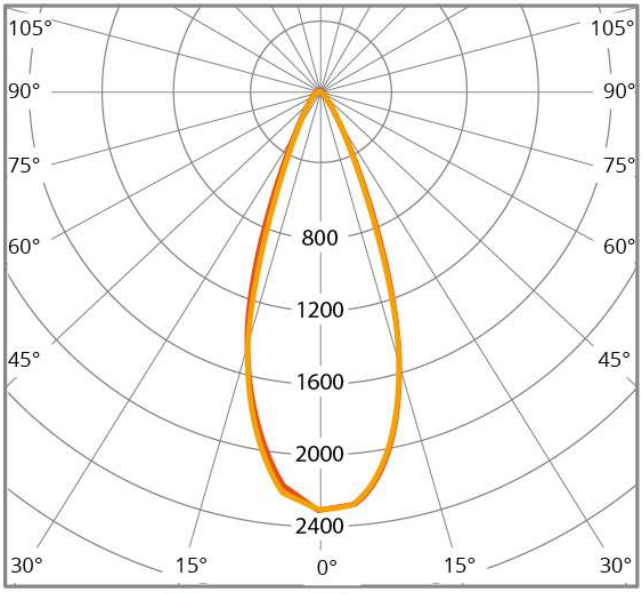
S20



cd/klm C0 - C180 C90 - C270 η = 96%

Light distribution curve

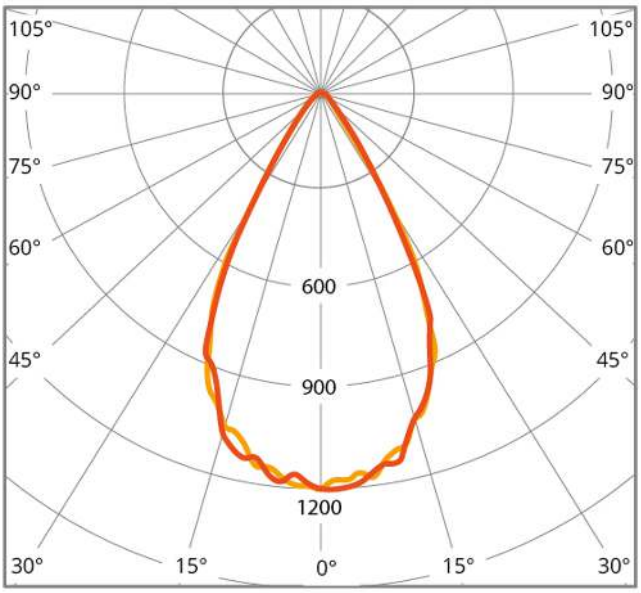
S40



cd/klm C0 - C180 C90 - C270 η = 96%

Light distribution curve

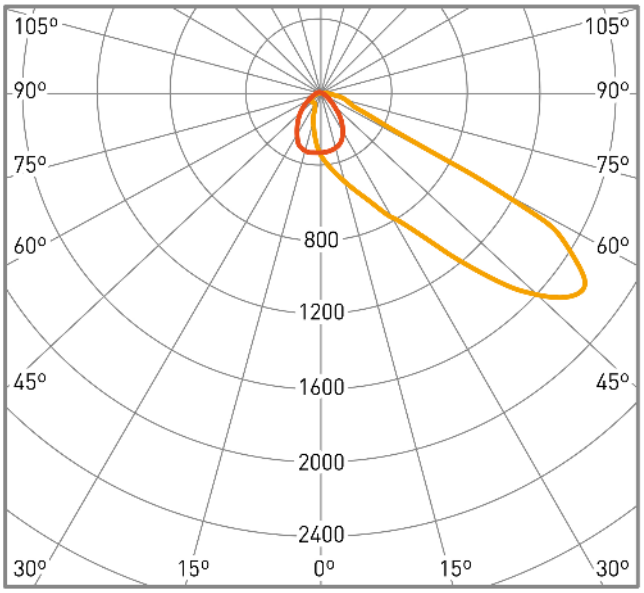
S60



cd/klm C0 - C180 C90 - C270 η = 99%

Light distribution curve

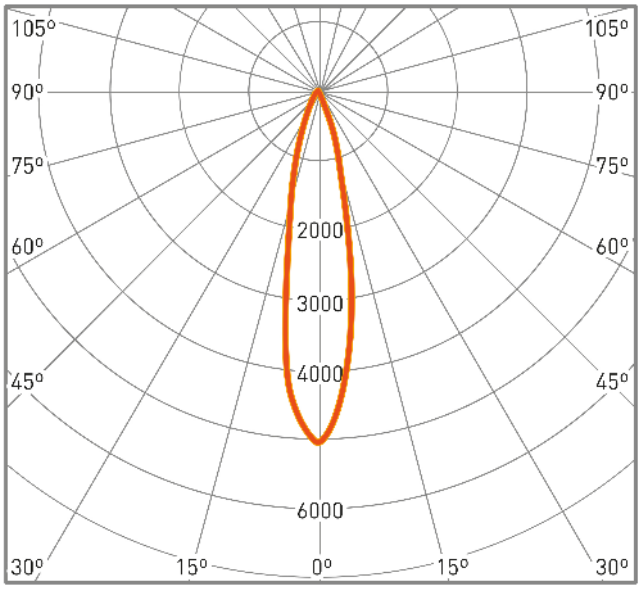
AF1



cd/klm C0 - C180 C90 - C270 $\eta = 100\%$

Light distribution curve

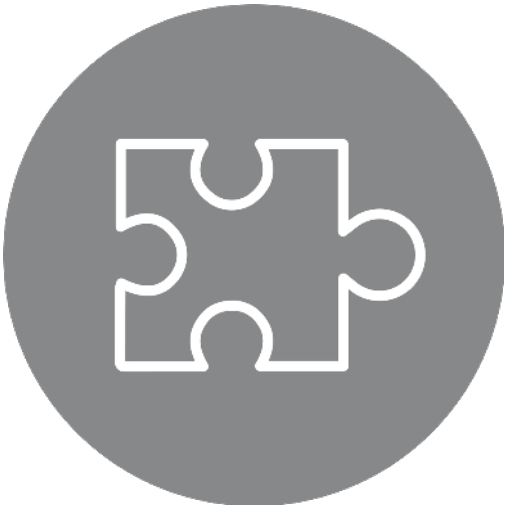
S15



cd/klm C0 - C180 C90 - C270 $\eta = 93\%$

Light distribution curve

Features



Modular structure on a single support

High-power floodlights are designed for installation on high-rise towers, the advantage of having a single anchor point for several modules means a reduction in the space required for installation. This translates into a maximum use of the available structures, without having to reduce light output or quality.



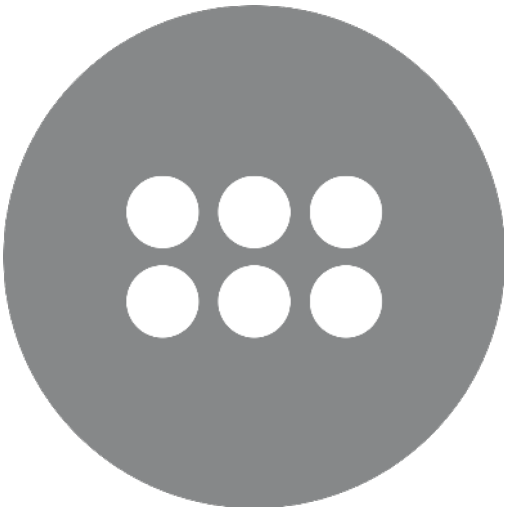
Independent modules that guarantee the operation

The reliability of floodlights is a critical factor in ensuring the safety of users while maintaining correct illumination. The Flex floodlight, with its modular configuration, has independent drivers for each module, ensuring the survival of the service, even in case of failure of any of the modules.
In addition, Flex floodlights have successfully passed resistance tests against severe conditions of use (EN 60598-1:2015) and against vibrations (EN 60068-2-6:2008). This, together with the quality of the materials and the meticulous traceability of the manufacturing process, guarantees optimum performance, minimizing the possibility of lighting interruption.



High-quality uniform illumination

Uniformity of light is an essential requirement in any application, being critical in sporting events and special facilities.
With Flex floodlights, high quality uniform illumination is achieved, without glare. The inclined structure of the Flex floodlight avoids shadows due to the overlapping of the modules. In addition, each block is vertically adjustable, ensuring a perfect orientation of the light according to the requirements, creating a pleasant and comfortable space for the users.
It is essential to have the right combination of the different optics to be projected, which are determined by the lighting studies previously carried out.



Control and connectivity

The R series includes remote management, each projector has an IoT communications node, connectivity and access to the Aurant platform for remote control. This allows easy and immediate adaptation of the same space to different uses, regulating the luminous intensity according to needs. The floodlights in this series incorporate drivers with 1-10V communication protocol to regulate the luminous flux between 1 and 100% by varying the voltage of the input signal from 1 to 10V, as well as facilitating the integration of multiple sensors (presence, twilight, noise, etc.).



Flawless thermal management

The structure of the Flex floodlight consists of an aluminium enclosure with dissipation curves that form part of the chassis itself and favour heat conduction and convection. In addition, the sealed driver and the LED modules are placed in two independent compartments, preventing heat transfer between them. In addition, each module is independent, avoiding heat transfer between them.
The thermal protection of the electronics maximises the useful life of the luminaire and improves its efficiency.



Design and manufacture 100% made in Televes

Our cutting-edge facilities include all the means for the creation of this luminaire, from start to finish. This involves everything from the electronic and mechanical design, using advanced simulation processes, to the manufacture of the circuits, boards and all the elements of the chassis, using meticulous construction processes and assembly on robotised lines. An in-house design and manufacturing process also offers other advantages, such as quality verification at every point of development.



A world of possibilities

Each situation requires specific lighting features, that's why our luminaires offer multiple alternatives to meet the needs of each context:

- A wide selection of highly homogeneous colour temperatures (SDCM<3): 2,200, 3,000, 4,000, 5,000 and 5,700ºK
- 5 different types of optics are available to achieve lighting adapted to any environment: S20, S40, S60, S90 and AF1
- Variety of finishes in any colour of the RAL range
- CRI>70 and available on request CRI>0 and CRI>90
- 1-10V regulation models are available, fully compatible with presence detection and lighting control solutions depending on the needs of the installation

And if you don't find what you are looking for, we have even more options available on request. We are pleased to study your project in a tailored, non-binding way. Contact us, and we will help you choose the perfect lighting.

Technical specifications

Ref. 67121100

Number of leds		96					
Power	W	300					
Pre-programmed dimming		No					
Control interface		1-10V					
Optic type options		S20	S40	S60	S90	AF1	
Lens type		PC lens	PC lens	PC lens	PC lens	PC lens	
Color temperature options		2200K	2700K	3000K	4000K	5000K	5700K
Luminous flux	lm	36644	39661	40955	43110	43110	43110
Lighting efficiency	lm/W	122.1	132.2	136.5	143.7	143.7	143.7
LED current	mA	400	400	400	400	400	400
Duration	h	100000					
Working life		L90B10					
Constant ligh output (CLO)		No					
Standard Deviation Colour Matching (SDCM)		< 3					
Color rendering index (CRI)		70					
CE Mark		Yes					
ENEC Certificate		No					
Protection Class IEC		Class I					
EU RoHS Compliant		Yes					
IK Rating (light module)		10					
IK Rating (whole luminaire)		10					
IP Rating (light module)		66					
IP Rating (whole luminaire)		66					
Color		Aluminum					
Material		Aluminium					
Material cover		Without cover					
Fixation Material		Aluminium					
Mounting method (Floodlights)		Wall / Traverse / Pedestal/Floor					
Surface protection		Anodized					
Surface facing the wind	m^2	0.126					
Number of LED modules		1					
Minimum power factor		0.9500					
Lighting source type		LED					
Replaceable light source		Yes					
Cable		Yes					
Power consumption tolerance	%	5					
Lighting flux tolerance	%	8					
Electric connection		3-pole waterproof connector					
Inrush current	A	0.77					
Input voltage	Vac	220 ... 240					
Mains frequency		50 Hz					
Total harmonic distortion (THD)		10					
Max. Operating temperature	°F	104					
Min. Operating temperature	°F	-31					