

# FIBER OPTIC ILLUMINATOR



LsBox : Range of illuminators for optical fiber, they are silent, compact and energy efficient.
Extremely silent thanks to a natural concept: no spinning part, no fan, no active cooling system.
Very high luminous display thanks to a high quality led and to an adapted optics.
High quality lighting: the leds that we are using have a minimum 90 CRI to a 98 CRI with a 98 R9.

They can receive color filters as well as special filters that control the luminous flux and color temperature.

## Our illuminators are entirely designed and produced in France.

Our experience for over 30 years in the optical fiber market and especially in that of illuminators, has led us to make a rigorous selection of the most appropriate leds for each model in our range, taking into account their technical characteristics as well as the intended field of application.





## Comparaison of color rendering and luminous flux at the output of the fiber optic

	50W halogen	100W halogen	150W metal halide	LsBox 4000K IRC90			LsBox 3500K IRC90		
Color temperature	3000K		4000K	4000K		3500K			
CRI	98	92	70	90			90		
R9	90	65	0	70		70			
Luminous flux	34 lm	69 lm	129 lm	LsBox 20 113 lm	LsBox 35 150 lm	LsBox 45 190 lm	LsBox 20 109 lm	LsBox 35 145 lm	LsBox 45 185 lm

	LsE	Box 3000K IRG	C90	LsBox 3000K IRC98			
Color temperature	3000K 3000K						
CRI		90		98			
R9		70		93			
Luminous flux	LsBox 20 105 lm	LsBox 35 140 lm	LsBox 45 165 lm	LsBox 20 102 lm	LsBox 35 136 lm	LsBox 45 159 lm	

Measured in the output of a 5mm fiber optic with 1m length

## Selection guide for replacing existing illuminators

	LsBox 20				LsBox 35			LsBox 45		
	3000K IRC90	3000K IRC98	4000K IRC90	3000K IRC90	3000K IRC98	4000K IRC90	3000K IRC90	3000K IRC98	4000K IRC90	
50W halogen	0	0	Р	Р	Р	Р	Р	Р	Р	
100W halogen	0	0	Р	0	0	Р	Р	Р	Р	
150W metal halide	X	X	X	Р	X	0	0	0	0	



## **O**: Optimal

#### **P** : Possible under certain conditions

## X : Impossible

This guide is given on an indicative basis

The illuminator must be chosen according to its function, the configuration of the place, the objects to be lit and to the expected result...



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	LsBox Pro2	)	LsBox Pro35	I	LsBox Pro45				
Fiber optic type	PMMA, Verre								
Fiber optic port	30mm								
		Spe	ecial size of fiber optic port, on re	quest.					
Color temperature	2700K	3000K	3000K	3500K	4000K				
CRI (led)	Ra 90 R9 85	Ra 90 R9 80	Ra 98 R9 98	Ra 90 R9 78	Ra 90 R9 75				
Led Life	L80 B10 50 000 H								
	Special color temperature, special CRI, on request.								
Binning	1 bin - 2 SDCM								
Dimming	Potentiometre 0-10V external signal DALI, DMX on request								
Cooling	Natural convection								
Power supply	180-277V AC 50/60HZ 120-277V AC 50/60HZ			12	120-277V AC 50/60HZ				
Power	20W 32W				45W				
Operating temperature			-20°C < Ta < +40°C						
Size	152 x 81 x 125 (mm) 191 x 96 x 150 (mm) 191 x 122 x 180 (r				1 x 122 x 180 (mm)				
Weight	1,25 Kg 1,6 Kg 2,5 Kg								



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Comparaison of light spectrums (Measured in the output of a 5mm fiber optic, 1m length)











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