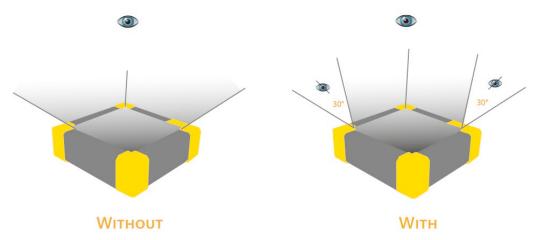
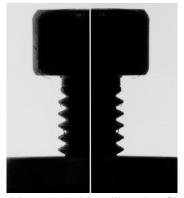
Collimation film

<u>Principle:</u> Collimation film can be used on **backlights** to reduce the angle of emission and get parallel light rays. This helps to provide high-contrast images needed for **precise edge detection** and **defect analysis**.



<u>Applications:</u> Collimated backlights allow to achieve a sharp and clear silhouette for **precise measurement inspection**, especially on rounded parts where regular backlights would blur the edges due to light rays from other directions.



Without VS With collimation film

A collimated light source can also be very effective for **detecting filling levels** or ensuring **correct positioning** through **glass or clear plastic parts**.

Product availability				
Product	EFFI-BL & EFFI-SBL		EFFI-BL-IP69K	
Dimensions	≤ 600x600	>600x600	All	
Availability	Standard	Not available	Not available	

For not available or custom options, please contact EFFILUX to get support.

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EFFI-BL

First solution: Built-in (corresponds to a specific product reference)

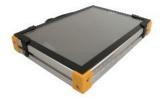


The collimation film(s) is directly integrated in the product, on top of the opaline window, during manufacturing. Collimated product's thickness (EFFI-BL + built-in collimation film): 43mm

The complete product must be ordered, the polarizer cannot be installed by the customer afterwards.

Orientation & References: Built-in films				
Collimated Version	2 Directions:	1 Direction: Only 1 collimation film		
	2 crossed collimation films	Standard orientation	Opposite orientation (90°)	
Orientation	The angle limitation will be on the two directions	The angle limitation will be on the optical length.	The angle limitation will be on the optical width.	
References	Add -2XLCF to the light part-number: EFFI-BL-XXX-YYY-ZZZ-2XLCF XXX ≤ YYY	Add -1XLCF to the light part-number: EFFI-BL-XXX-YYY-ZZZ-1XLCF XXX \le YYY	Add -1XLCF-90° to the light part-number: EFFI-BL-XXX-YYY-ZZZ-1XLCF-90° XXX ≤ YYY	

Second solution: Accessory kit



Collimation films must be added on top of the product with a transparent window and the whole setup is fastened with brackets.

The add-on kit includes:

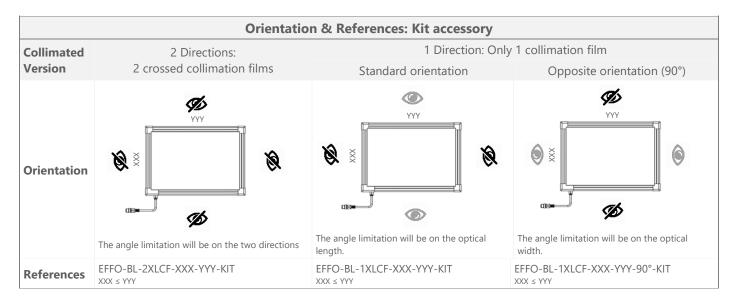
- 1x (or 2) collimation films
- 1x protective transparent window
- 2x brackets up to 300-300 size, 4x for larger products
- 4x T-NUT M6 and 4xM6X10 screws

Collimated product's thickness (EFFI-BL + collimation film kit): 45mm The accessory kit must be ordered separately from the light to be installed on top of it.

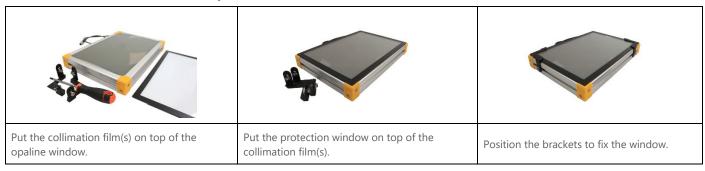


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How to install the collimation kit on your EFFI-BL:



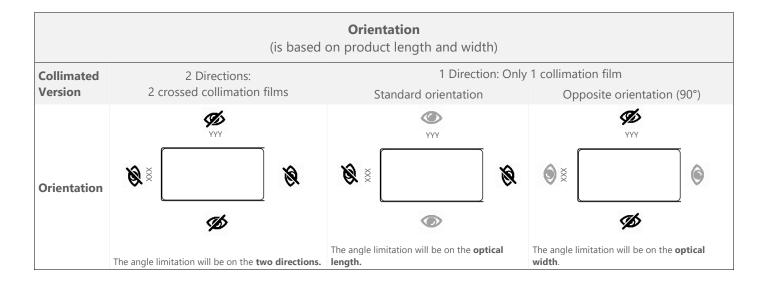




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EFFI-SBL



First solution: Built-in / Full-IP

The EFFI-SBL is manufactured with the collimation films directly inside the product. The accessory cannot be removed, and the light is fully IP67 protected.

Collimated product's thickness: 19mm

Part-number: EFFI-SBL-XXX-YYY-ZZZ-1XLCF or EFFI-SBL-XXX-YYY-ZZZ-2XLCF



Second solution: Accessory kit

The collimation films can be added on top of the product with a protective window and the whole setup fastened with screws. The collimation films can be removed. The light is IP67 protected, but not the space between the diffuser and the protective window.

Collimated product's thickness (EFFI-SBL + collimation films + window): 18,5mm.

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Part-number of the accessory to order additionally: EFFO-SBL-1XLCF-XXX-YYY-KIT or EFFO-SBL-2XLCF-XXX-YYY-KIT



