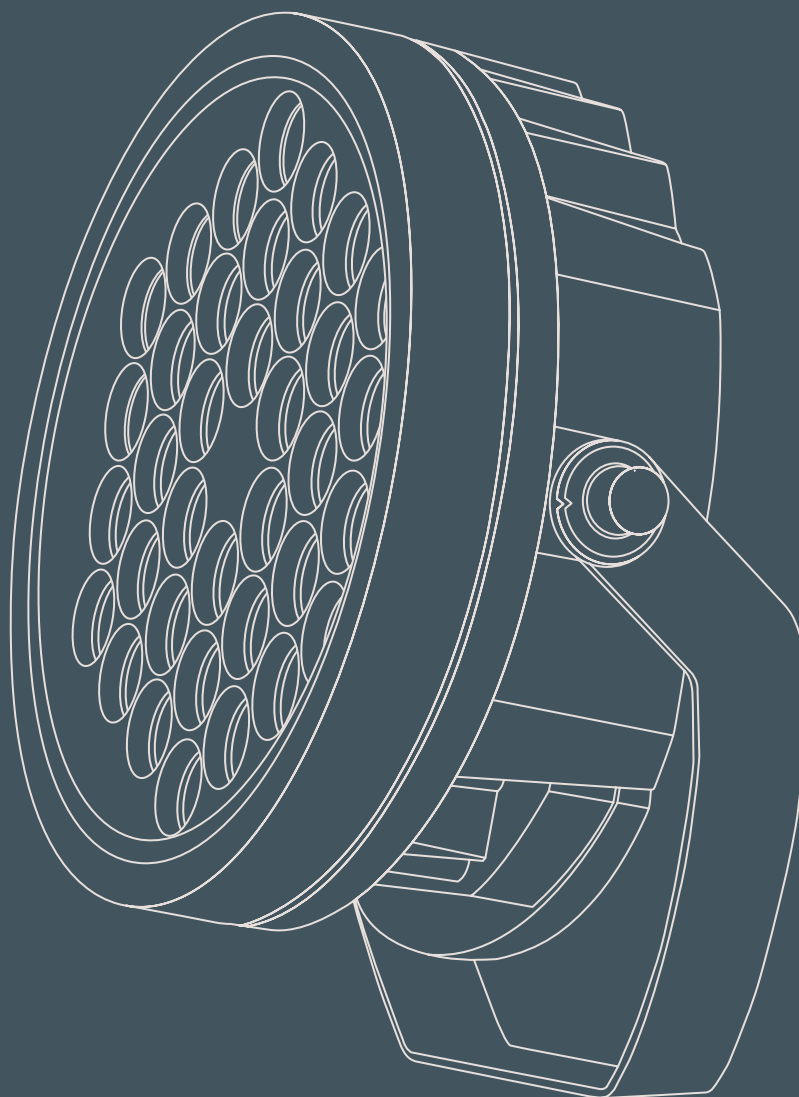


**Versatility and precision – projectors are the ideal means for the setting in scene of buildings, façades, monuments and sculptures with directional light.**

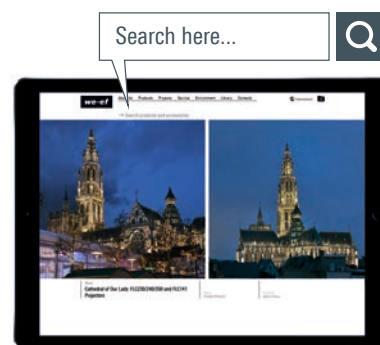
It is a boon to have such a comprehensive toolbox as the WE-EF projector range – ranging from compact spotlights for short distances to powerful projectors for monumental buildings and objects, and from extremely narrow beam to wide beam light distributions.

Luminaires for special effects, such as colour changers or profile projectors, complete the range. The functional design of WE-EF projectors is focused on easy and safe installation, durability and reliable operation.

# Projectors



FLD100	156
FLC100	158
FLC100 Wall bracket	160
FLC200	166
FLC200-TW	170
FLC200-CC	176
FLC200 PP	184
FLC200-TW PP	186
FLC200-CC PP	188
FLC300	198
FLC300 Wall bracket	200
ULC200	204



## Projectors

For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)



# ZOOM office and commercial building

A Brilliant Presence in Berlin's City West



### ZOOM office and commercial building

Berlin (DE)

Project owner: Hines Immobilien GmbH

Architect (design): Hascher Jehle Architecture

Architect (implementation): Aukett + Heese

Lighting design: Lichtvision Design



Staggered horizontal light bands accentuate the horizontal structures of this rounded building complex at the corner of West Berlin's Kantstrasse and Joachimsthaler Strasse. At the heart of the lighting concept is the building's bright crown, created by an ensemble of WE-EF FLC121 projectors strategically placed near the foot of the superstructure atop the Zoom building's flat roof. To achieve a homogeneous light distribution on the surface areas, the medium-emitting projectors are equipped with band-type diffusion lenses. The window reveals are illuminated by recessed ETC110 inground luminaires using symmetric, extreme narrow beam light distribution with 'sharp cut-off'.



- Luminaire housing: Marine-grade, die-cast aluminium alloy
- Corrosion protection: 5CE, including PCS hardware
- Driver: Integral EC electronic converter
- Main lens: Safety glass
- Gasketing: Silicone CCG® Controlled Compression Gasket
- Optics: CAD-optimised for superior illumination and glare control  
OLC® One LED Concept
- Installation: The luminaire is factory-sealed and does not need to be opened during installation
- Control: Optional DALI version available. To be specified at time of ordering

CLASS  
I

IP66

IK07

Town hall  
Dresden (DE)

Available distributions:  
[B] [M] [EE] [EES] [A20]

Standard colours:



RAL 9004 9006 9007 7016 9016

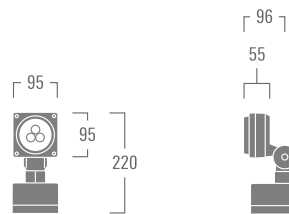


- [B] Symmetric, wide beam
- [M] Symmetric, medium beam
- [EE] Symmetric, very narrow beam
- [EES] Symmetric, very narrow beam, 'sharp cut-off'
- [A20] Asymmetric, wallwash

FLD111

[M] [EE] [EES] [A20]

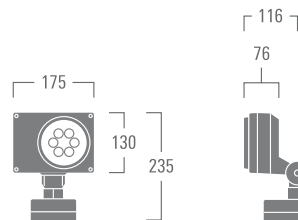
6 W  
390-590 lm  
Max. 1 internal accessory  
Max. 1 external accessory



FLD121

[B] [M] [EE] [EES] [A20]

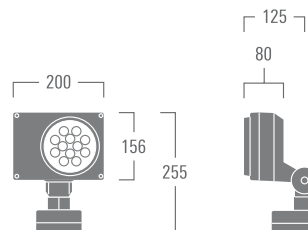
12 W  
970-1270 lm  
Max. 1 internal accessory  
Max. 1 external accessory



FLD131

[B] [M] [EE] [EES] [A20]

24 W  
1940-2530 lm  
Max. 1 internal accessory  
Max. 1 external accessory



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 162





Luminaire housing:	Marine-grade, die-cast aluminium alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter
Main lens:	Safety glass
Gasketing:	Silicone CCG® Controlled Compression Gasket
Optics:	CAD-optimised for superior illumination and glare control OLC® One LED Concept
Installation:	The luminaire is factory-sealed and does not need to be opened during installation

CLASS  
I

IP66

IK07

#### ZOOM Office Building, Berlin (DE)

Architect (design): Hascher Jehle Architecture  
Architect (implementation): Aukett + Heese  
Lighting design: Lichtvision Design

#### Available distributions:

[B] [M] [EE] [EES] [A20]

#### Standard colours:

  
 RAL 9004 9006 9007 7016 9016



- [B] Symmetric, wide beam
- [M] Symmetric, medium beam
- [EE] Symmetric, very narrow beam
- [EES] Symmetric, very narrow beam, 'sharp cut-off'
- [A20] Asymmetric, wallwash

FLC121

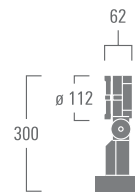
[B] [M] [EE] [EES] [A20]

12 W

1030-1370 lm

Max. 1 internal accessory

Max. 1 external accessory



FLC131

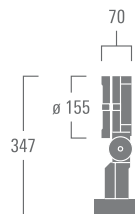
[B] [M] [EE] [EES] [A20]

24 W

2040-2610 lm

Max. 1 internal accessory

Max. 1 external accessory



FLC141

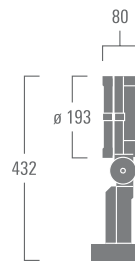
[B] [M] [EE] [EES] [A20]

48 W

4120-5460 lm

Max. 1 internal accessory

Max. 1 external accessory



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 163





- Luminaire housing: Marine-grade, die-cast aluminium alloy
- Corrosion protection: 5CE, including PCS hardware
- Driver: Integral EC electronic converter
- Main lens: Safety glass
- Gasketing: Silicone CCG® Controlled Compression Gasket
- Optics: CAD-optimised for superior illumination and glare control  
OLC® One LED Concept
- Installation: The luminaire is factory-sealed and does not need to be opened during installation

CLASS  
I

IP55

IK07

Concord City Place  
(US)

Available distributions:  
[B] [M] [EE] [EES] [A20]

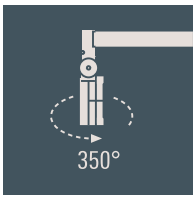
Standard colours:



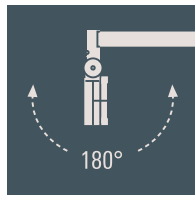
RAL 9004 9006 9007 7016 9016



- [B] Symmetric, wide beam
- [M] Symmetric, medium beam
- [EE] Symmetric, very narrow beam
- [EES] Symmetric, very narrow beam, 'sharp cut-off'
- [A20] Asymmetric, wallwash



Horizontal aiming



Vertical aiming

FLC121 Wall bracket

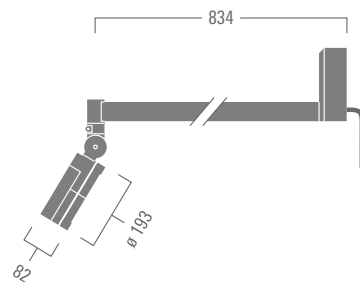
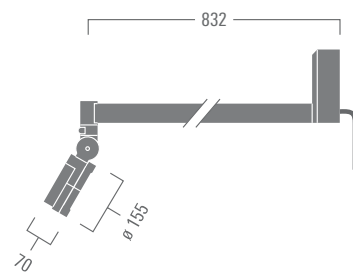
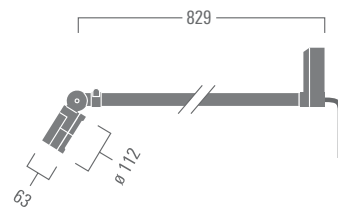
- [B] [M] [EE] [EES] [A20]
- 12 W
- 1030-1370 lm
- Max. 1 internal accessory
- Max. 1 external accessory

FLC131 Wall bracket

- [B] [M] [EE] [EES] [A20]
- 24 W
- 2040-2610 lm
- Max. 1 internal accessory
- Max. 1 external accessory

FLC141 Wall bracket

- [B] [M] [EE] [EES] [A20]
- 48 W
- 4120-5460 lm
- Max. 1 internal accessory
- Max. 1 external accessory



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 163

## FLD100

### Internal optical accessories

Max. 1 internal accessory



**Wallwash lens**  
for [M]



**Linear spread lens**  
for [M] [EE] [EES]



**Flood lens**  
for [M] [EE] [EES]

### External optical accessory

Max. 1 external accessory



**Glare shield**  
for [B] [M] [EE] [EES]



**Snoot**  
for [B] [M] [EE] [EES]

### Mounting Accessories



**Short post**  
Matching planted root to be ordered separately

**Planted root**  
Galvanised steel



**Ground spike**  
Stainless steel VA

## FLC100 / FLC100 Wall bracket

### Internal optical accessories

Max. 1 internal accessory

### External optical accessories

Max. 1 external accessory



**Wallwash lens**  
for [M]



**Linear spread lens**  
for [M] [EE] [EES]



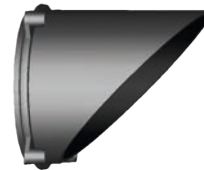
**Flood lens**  
for [M] [EE] [EES]



**Honeycomb louvre**  
for [EE]



**Wire guard**  
for [B] [M] [EE] [EES]



**Glare shield**  
for [B] [M] [EE] [EES]



**Snoot**  
for [B] [M] [EE] [EES]

### Mounting Accessories



**Short post**  
Matching planted root to be ordered separately

**Planted root**  
Galvanised steel



**Ground spike**  
Stainless steel VA







# Our Lady's Cathedral

## A Sculpturally Detailed Gem

How do you set the stage for a gem of Flemish-Brabantine architecture?

Antwerp's answer involves the skilful application of an ensemble of WE-EF FLC200 series projectors. Recessed into the ground, WE-EF ETC100-GB series luminaires illuminate the buttresses of the naves and apse as well as the portals – with finely aligned precision made possible through their gimbal-mounted luminaire modules. Integrated via appropriate driver interfaces, the WE-EF luminaires are controlled by a DMX light management system for different lighting scenarios.



### **Our Lady's Cathedral**

Antwerp (BE)

Project owner: City of Antwerp

Lighting design: Susanna Antico Lighting Design Studio, Milan, in collaboration with arch. Gad Giladi, Lighting Designer and with input from arch. Helena Gentili, Lighting Designer, arch. George Balan, Lighting Designer and Mathieu Cieters, Graphic Designer



Luminaire housing:	Marine-grade, die-cast aluminium alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	FLC201: Electronic converter required, to be ordered separately FLC210-FLC260: Integral EC electronic converter
Main lens:	Safety glass
Gasketing:	Silicone CCG® Controlled Compression Gasket
Optics:	CAD-optimised for superior illumination and glare control OLC® One LED Concept
Installation:	One cable gland. FLC220-FLC260: Second gland for through wiring on request
Control:	FLC220-FLC260: Optional DALI version available. To be specified at time of ordering

FLC201	CLASS III	IP66	IK05
FLC210	CLASS I	IP66	IK05
FLC220-FLC260	CLASS I	IP66	IK07



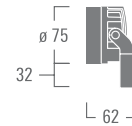


- [B] Symmetric, wide beam
- [M] Symmetric, medium beam
- [E] Symmetric, narrow beam
- [EE] Symmetric, very narrow beam
- [EES] Symmetric, very narrow beam, 'sharp cut-off'

FLC201

[B] [M] [E] [EE] [EES]

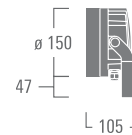
6 W  
530-630 lm  
Max. 1 external accessory



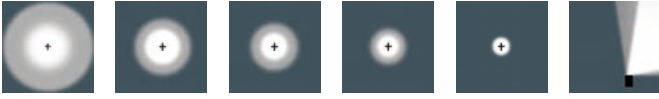
FLC210

[B] [M] [E] [EE] [EES]

6-12 W  
630-1410 lm  
Max. 1 external accessory



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 194



[B] Symmetric, wide beam

[M] Symmetric, medium beam

[E] Symmetric, narrow beam

[EE] Symmetric, very narrow beam

[EES] Symmetric, very narrow beam, 'sharp cut-off'

[A20] Asymmetric, wallwash

### FLC220

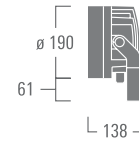
[B] [M] [E] [EE] [EES] [A20]

12-26 W

1200-2600 lm

Max. 1 internal accessory

Max. 1 external accessory



### FLC230

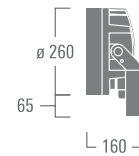
[B] [M] [E] [EE] [EES] [A20]

24-52 W

2450-5260 lm

Max. 1 internal accessory

Max. 1 external accessory



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 194

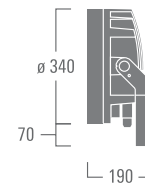


- [B] Symmetric, wide beam
- [M] Symmetric, medium beam
- [E] Symmetric, narrow beam
- [EE] Symmetric, very narrow beam
- [EES] Symmetric, very narrow beam, 'sharp cut-off'
- [A20] Asymmetric, wallwash

FLC240

[B] [M] [E] [EE] [EES] [A20]

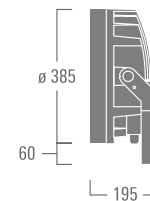
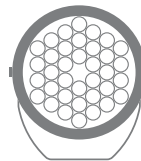
48-104 W  
4900-10520 lm  
Max. 1 internal accessory  
Max. 1 external accessory



FLC260

[B] [M] [E] [EE] [EES] [A20]

72-155 W  
7350-15780 lm  
Max. 1 internal accessory  
Max. 1 external accessory



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 194





Luminaire housing:	Marine-grade, die-cast aluminium alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	FLC201-FLC210: Electronic converter required, to be ordered separately FLC220-FLC260: Integral EC electronic converter
Main lens:	Safety glass
Gasketing:	Silicone CCG® Controlled Compression Gasket
Optics:	CAD-optimised for superior illumination and glare control OLC® One LED Concept
Installation:	One cable gland. FLC220-FLC260: Second gland for through wiring on request
Technology:	WE-EF Tunable White Technology – stabilises luminous flux throughout 2700 K - 6000 K; refer to page 372
Control:	DALI

FLC201	CLASS III	IP66	IK05
FLC210	CLASS I	IP66	IK05
FLC220-FLC260	CLASS I	IP66	IK07

Kimpton Langsuan Village  
Bangkok (TH)  
Architect: Plan Architects

Available distributions:  
[B] [M] [E] [EES] [A20]

Standard colours:



RAL 9004 9006 9007 7016 9016



[B] Symmetric, wide beam  
 [M] Symmetric, medium beam  
 [E] Symmetric, narrow beam

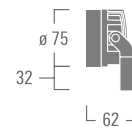
## FLC201-TW

[B] [M] [E]

4 W

340-360 lm

Max. 1 external accessory



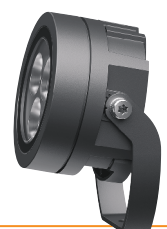
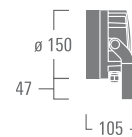
## FLC210-TW

[B] [M] [E]

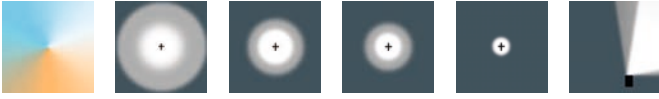
11 W

1040-1080 lm

Max. 1 external accessory



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 194



[B] Symmetric, wide beam

[M] Symmetric, medium beam

[E] Symmetric, narrow beam

[EES] Symmetric, very narrow beam, 'sharp cut-off'

[A20] Asymmetric, wallwash

### FLC220-TW

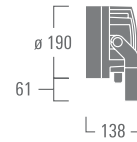
[B] [M] [E] [A20]

22 W

2220-2280 lm

Max. 1 internal accessory

Max. 1 external accessory



### FLC230-TW

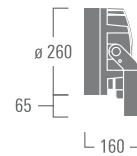
[B] [M] [E] [EES] [A20]

24-44 W

3660-4520 lm

Max. 1 internal accessory

Max. 1 external accessory



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 194

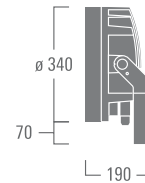


- [B] Symmetric, wide beam
- [M] Symmetric, medium beam
- [E] Symmetric, narrow beam
- [EES] Symmetric, very narrow beam, 'sharp cut-off'
- [A20] Asymmetric, wallwash

FLC240-TW

[B] [M] [E] [EES] [A20]

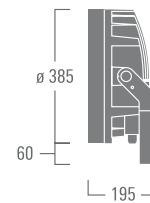
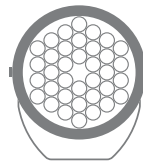
48-88 W  
7320-9040 lm  
Max. 1 internal accessory  
Max. 1 external accessory



FLC260-TW

[B] [M] [E] [EES] [A20]

72-132 W  
10990-13570 lm  
Max. 1 internal accessory  
Max. 1 external accessory



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 194

### How to light a bridge

Any imposing daytime landmark such as a cable-stayed bridge deserves to be given an equally imposing presence after sunset.

Having access to projectors with a choice of high-precision optics allows the lighting professional to minimise light spillage while aiming the light selectively and precisely to where it is intended.

Light surface finishes are actually helpful for the illumination of any type of structure, and they lend themselves particularly well to tunable white applications.







## WE-EF Tunable White Technology

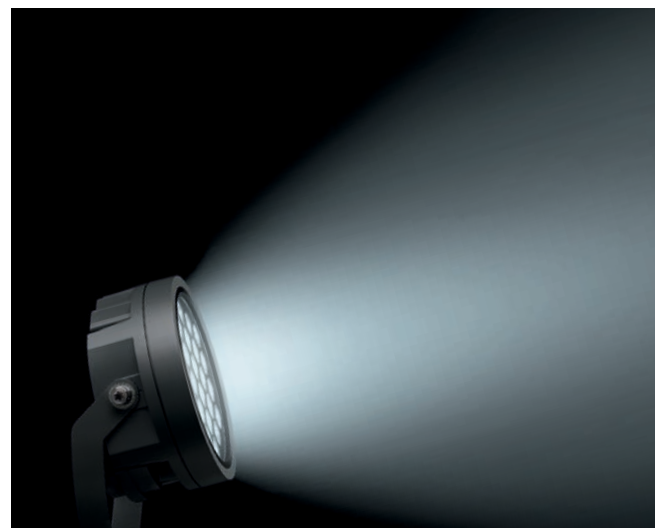
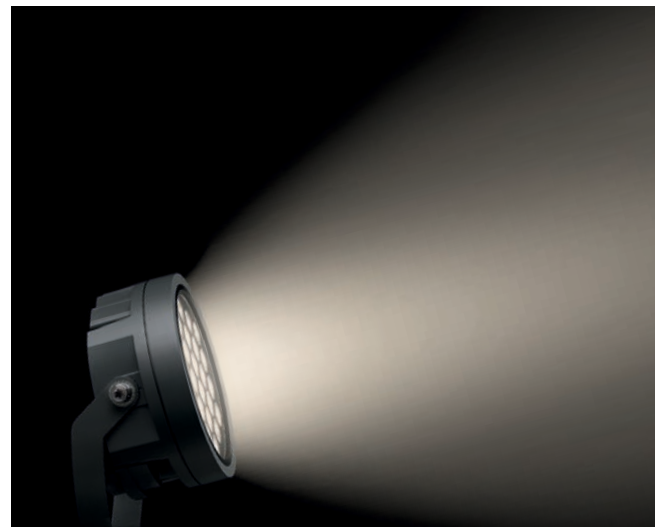
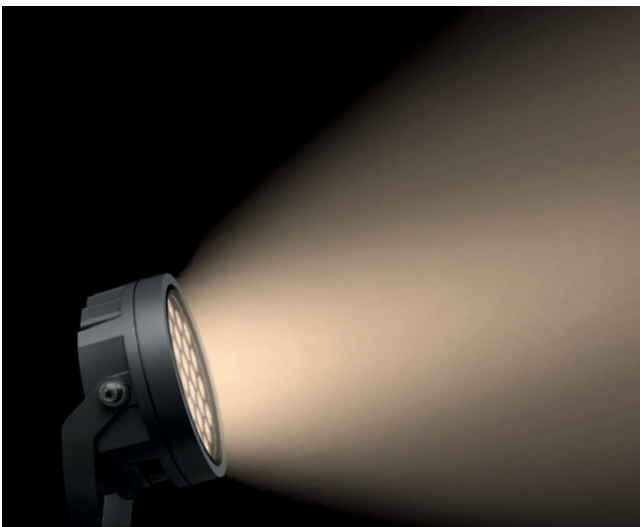
For optimum photometric performance, multiple arrays of white LEDs of different colour temperatures are joined into one optical system. Tuning these different types of LEDs through separate control channels allows infinite variation from warm to neutral to cool white light as well as smooth dimming at any chosen colour temperature.

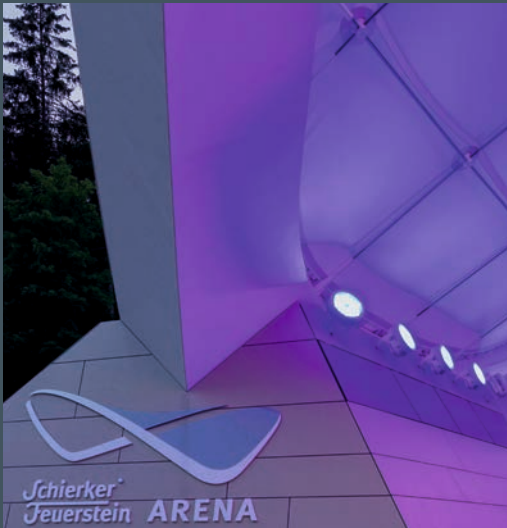
As a consequence of higher luminous efficacy (i.e., lumens per watt) of cool white LEDs over their warm white counterparts, conventional systems typically display a noticeable drop or increase in brightness when the colour temperature is being adjusted. WE-EF Tunable White Technology

masters this problem through smart control circuitry that stabilises the luminous flux throughout the entire 2700 K - 6000 K tuning range.

Illuminated with different colour temperatures, the colours and textures of surfaces, vegetation and other media are perceived differently.

Tunable white luminaires can be used to showcase private and public spaces, architecture and landscapes, in ever-changing ways – be it for special events, during the course of a night or with the change of seasons.





- Luminaire housing: Marine-grade, die-cast aluminium alloy
- Corrosion protection: 5CE, including PCS hardware
- Driver: FLC210: Electronic converter required, to be ordered separately  
FLC220-FLC260: Integral EC electronic converter
- Main lens: Safety glass
- Gasketing: Silicone CCG® Controlled Compression Gasket
- Optics: CAD-optimised for superior illumination and glare control  
OLC® One LED Concept
- Installation: One cable gland.  
FLC220-FLC260: Second gland for through wiring on request
- Technology: WE-EF Colour Boost Technology – increases overall luminous flux by up to 40%;  
refer to page 373
- Control: DMX, DMX wireless; refer to page 196

FLC210	CLASS III	IP66	IK05
FLC220-FLC260	CLASS I	IP66	IK07

**Feuerstein Arena**  
Schierke (DE)  
Architect: Graft Gesellschaft von Architekten  
Lighting design: Jackbenimble

**Available distributions:**  
[B] [M] [E] [EES] [A20]

**Standard colours:**



RAL 9004 9006 9007 7016 9016



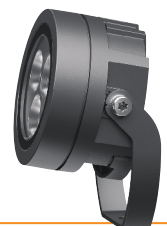
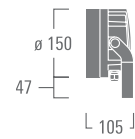
[B] Symmetric, wide beam

[M] Symmetric, medium beam

FLC210-CC

RGBW	RGBA
[B] [M]	[B] [M]
12 W	12 W
750-780 lm	610-640 lm

Max. 1 external accessory



RGBW / RGBA

- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 4000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 194



[B] Symmetric, wide beam

[M] Symmetric, medium beam

[E] Symmetric, narrow beam

[EES] Symmetric, very narrow beam, 'sharp cut-off'

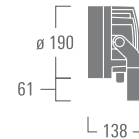
[A20] Asymmetric, wallwash

### FLC220-CC

RGBW				RGBA			
[B]	[M]	[E]	[A20]	[B]	[M]	[E]	[A20]
24 W				24 W			
1330-1650 lm				1070-1330 lm			

Max. 1 internal accessory

Max. 1 external accessory

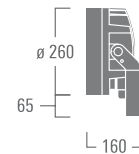


### FLC230-CC

RGBW				RGBA			
[B]	[M]	[E]	[EES] [A20]	[B]	[M]	[E]	[EES] [A20]
48 W				48 W			
2600-3200 lm				2100-2590 lm			

Max. 1 internal accessory

Max. 1 external accessory



RGBW / RGBA

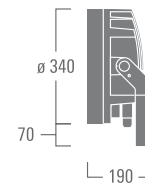
- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 4000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 194



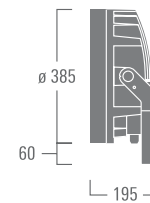
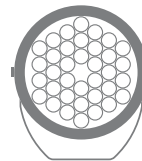


- [B] Symmetric, wide beam
- [M] Symmetric, medium beam
- [E] Symmetric, narrow beam
- [EES] Symmetric, very narrow beam, 'sharp cut-off'
- [A20] Asymmetric, wallwash

<b>FLC240-CC</b>	RGBW					RGBA				
	[B]	[M]	[E]	[EES]	[A20]	[B]	[M]	[E]	[EES]	[A20]
	96 W					96 W				
	5200-6410 lm					4200-5180 lm				
	Max. 1 internal accessory Max. 1 external accessory									



<b>FLC260-CC</b>	RGBW					RGBA				
	[B]	[M]	[E]	[EES]	[A20]	[B]	[M]	[E]	[EES]	[A20]
	144 W					144 W				
	5877-9610 lm					6310-7780 lm				
	Max. 1 internal accessory Max. 1 external accessory									

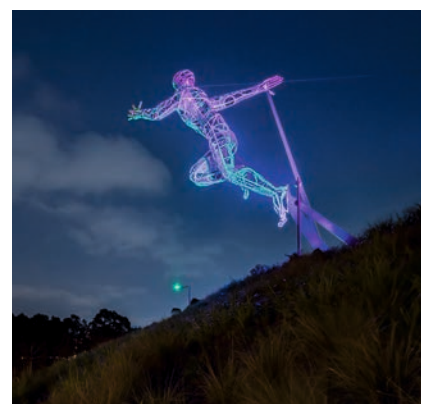
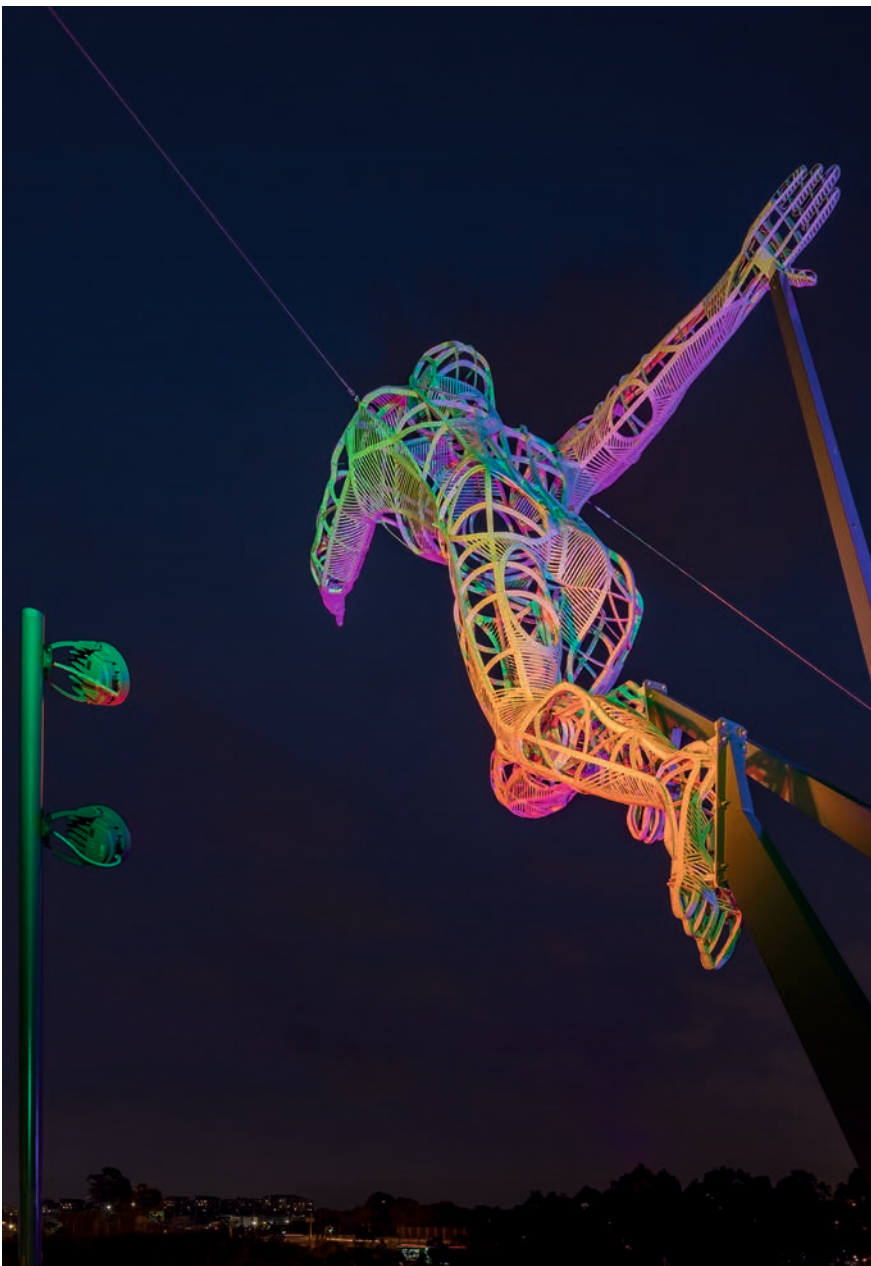


- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 4000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 194

### Olympic Spirit

Designed by artist Dominique Sutton, a 16-metre high sculpture was airlifted and installed atop Sydney's Centrepoint Tower prior to the 2000 Olympic Games. Fast forward to 2020 – The Gymnast and The Paralympic Basketballer have found a new home in Canberra, whereas The Sprinter made his/her way to the M4 East Legacy Project near Sydney Olympic Park.

Installing the eight-tonne sculpture on a steep hill posed challenges not only to the structural engineers, but also to the lighting consultants. The complexity of both, the sculpture and the terrain, called for high-performance projectors that had to meet a host of stringent criteria. With their sophisticated optics that deliver outstanding colour mixing as well as tight and precise beam control, WE-EF FLC200-CC RGBW colour changers were the obvious choice for this demanding installation.



**The Sprinter Sculpture**  
Sydney (AU)  
Lighting design: ADP  
Artist: Dominique Sutton

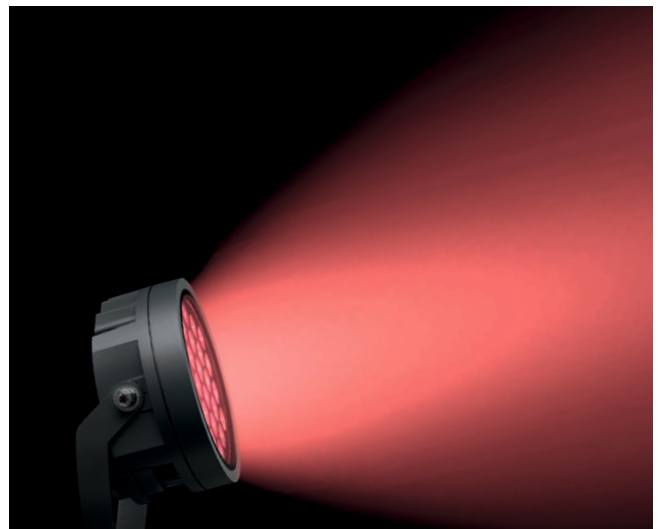
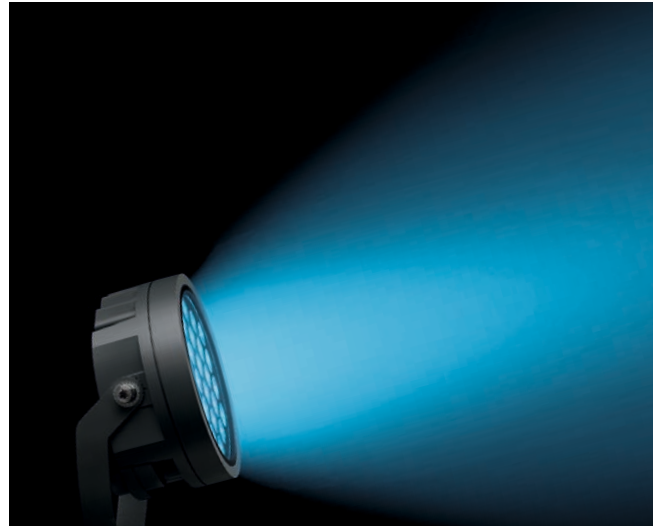
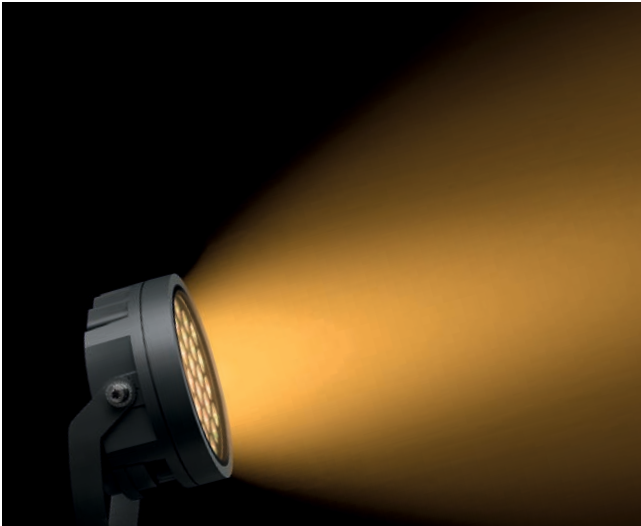


### WE-EF Colour Boost Technology

The FLC200-CC colour changer is just one out of numerous luminaires that employ WE-EF's proprietary Colour Boost Technology for significantly enhanced, dynamic lighting effects. By selectively controlling each individual colour channel, overall luminous flux is increased by up to 40%.

Conventional RGBW and RGBA systems typically distribute the maximum permissible electrical load evenly over the four available channels, with

each receiving no more than 25% ( $4 \times 25\% = 100\%$ ). Generally, however, in most colour mixing scenarios just three of the four channels get actively used. Consequently, one quarter of the available electrical power would go unused – this is where the WE-EF Colour Boost Technology comes in: Maximum power given to each of the active channels increases from 25% to 33% ( $3 \times 33\% \sim 100\%$ ). While the luminaire's electronics safeguard the LEDs against overload, the overall luminous flux – depending on the colours used – is boosted by up to 40%.





#### Main lens

- Safety glass
- 'Flush sealing' helps prevent accumulation of water, dust and debris when aimed vertically upwards

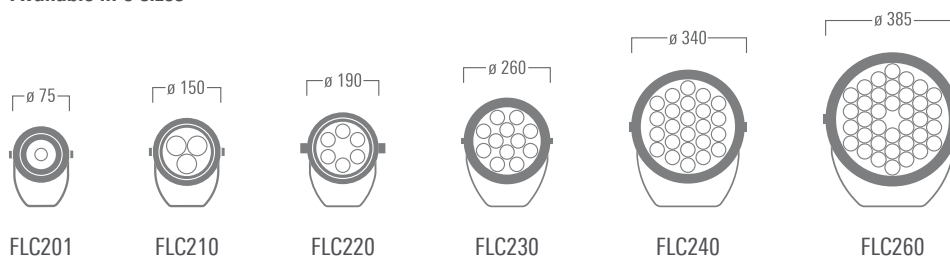
#### IOS® Innovative Optical System

- Precision manufactured optical system
- High photometric performance, beam efficiency and control
- Superior glare control and visual comfort through appropriate shielding angles
- High efficiency within the 50% 'half beam' angle
- Minimum light spillage beyond the 10% 'field' angle

#### CCG® Controlled Compression Gasket

- Weatherproof, non-ageing, high temperature rated silicone rubber
- Provides long-term, maintained, high IP ratings

#### Available in 6 sizes







**IOS® Innovative Optical System**

All WE-EF lens systems are developed in-house.



**OLC® One LED Concept**

WE-EF's OLC® prevents shadowing from any obstruction on the main lens.





Luminaire housing:	Marine-grade, die-cast aluminium alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	FLC210: Electronic converter required, to be ordered separately FLC220-FLC230: Integral EC electronic converter
Main lens:	Safety glass
Gasketing:	Silicone CCG® Controlled Compression Gasket
Optics:	Spherical flat convex lens system
Mains connection:	One cable gland. FLC220-FLC230: Second gland for through wiring on request
Control:	Optional DALI version available. To be specified at time of ordering

FLC210	CLASS III	IP66	IK05
FLC220 - FLC230	CLASS I	IP66	IK07

Tramway T4  
Lyon (FR)  
Lighting design: Ilex

Available distributions:  
[GP] [ZP] [FP]

Standard colours:



RAL 9004 9006 9007 7016 9016



gobo

[GP] for gobo projections

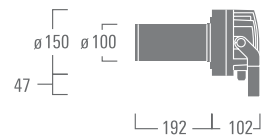
[ZP] for zoom-spot applications

[FP] for polygon framing applications

FLC210 PP

[GP] [ZP] [FP]

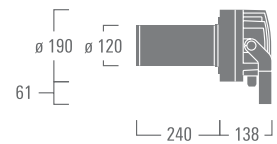
18-26 W  
660-1835 lm



FLC220 PP

[GP] [ZP] [FP]

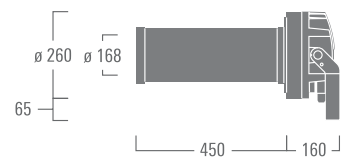
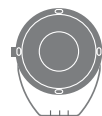
24-37 W  
959-2592 lm



FLC230 PP

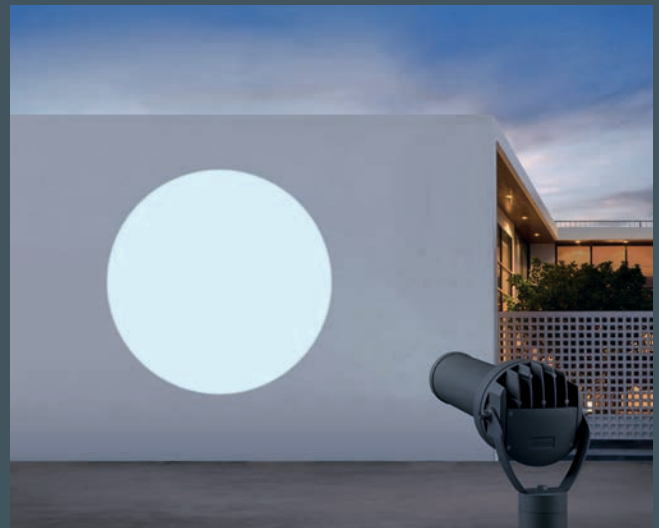
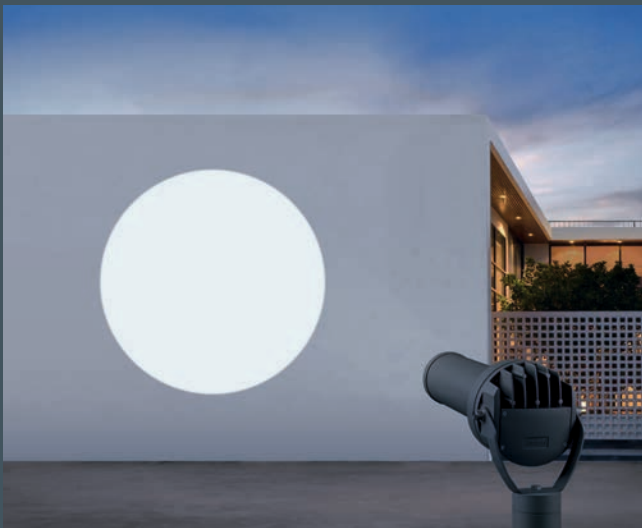
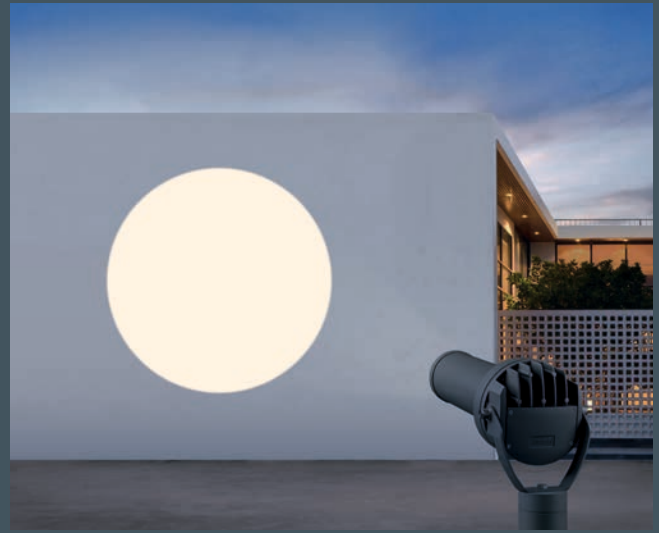
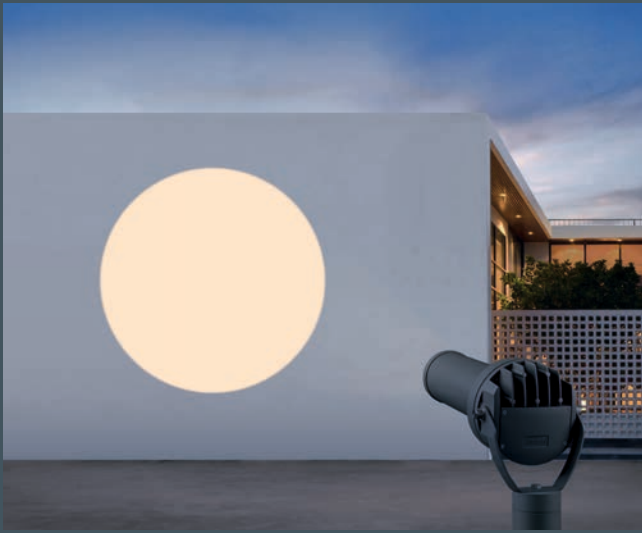
[GP] [ZP] [FP]

36-52 W  
1264-3253 lm



2700 K 3000 K 4000 K

- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 195



Luminaire housing: Marine-grade, die-cast aluminium alloy

Corrosion protection: 5CE, including PCS hardware

Driver: FLC210: Electronic converter required, to be ordered separately  
 FLC220-FLC230: Integral EC electronic converter

Main lens: Safety glass

Gasketing: Silicone CCG® Controlled Compression Gasket

Optics: Spherical flat convex lens system

Mains connection: One cable gland.

FLC220-FLC230: Second gland for through wiring on request

Technology: WE-EF Tunable White Technology – stabilises luminous flux throughout 2700 K - 6000 K;  
 refer to page 372

Control: DALI

FLC210	CLASS III	IP66	IK05
FLC220 - FLC230	CLASS I	IP66	IK07

Available distributions:  
 [GP] [ZP] [FP]

Standard colours:



RAL 9004 9006 9007 7016 9016





gobo

[GP] for gobo projections

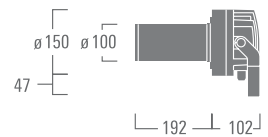
[ZP] for zoom-spot applications

[FP] for polygon framing applications

FLC210-TW PP

[GP] [ZP] [FP]

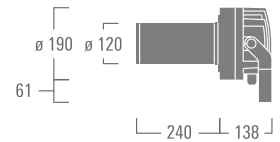
10 W  
190-550 lm



FLC220-TW PP

[GP] [ZP] [FP]

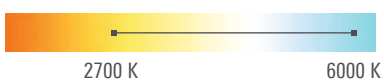
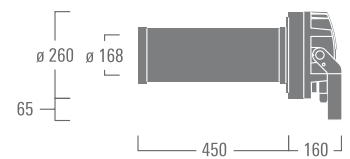
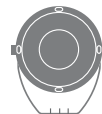
18 W  
290-750 lm



FLC230-TW PP

[GP] [ZP] [FP]

44 W  
1004-2169 lm



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 195



Luminaire housing:	Marine-grade, die-cast aluminium alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	FLC210: Electronic converter required, to be ordered separately FLC220-FLC230: Integral EC electronic converter
Main lens:	Safety glass
Gasketing:	Silicone CCG® Controlled Compression Gasket
Optics:	Spherical flat convex lens system
Mains connection:	One cable gland. FLC220-FLC230: Second gland for through wiring on request
Technology:	WE-EF Colour Boost Technology – increases overall luminous flux by up to 40%; refer to page 373
Control:	DMX, DMX wireless; refer to page 196

FLC210	CLASS III	IP66	IK05
FLC220 - FLC230	CLASS I	IP66	IK07

Molitor Hotel  
Paris (FR)

Available distributions:  
[GP] [ZP] [FP]

Standard colours:

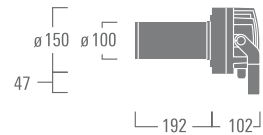


RAL 9004 9006 9007 7016 9016

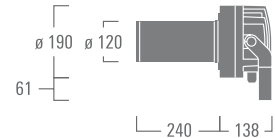


[GP] for gobo projections  
 [ZP] for zoom-spot applications  
 [FP] for polygon framing applications

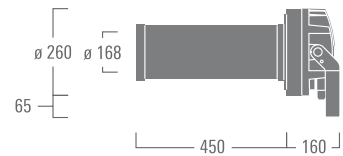
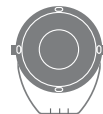
FLC210-CC PP	RGBW		RGBA	
	[GP]	[ZP] [FP]	[GP]	[ZP] [FP]
	15 W		15 W	
	170-490 lm		140-420 lm	



FLC220-CC PP	RGBW		RGBA	
	[GP]	[ZP] [FP]	[GP]	[ZP] [FP]
	24 W		24 W	
	260-670 lm		220-570 lm	



FLC230-CC PP	RGBW		RGBA	
	[GP]	[ZP] [FP]	[GP]	[ZP] [FP]
	48 W		48 W	
	742-1603 lm		600-1297 lm	



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 4000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 195

### High-precision, spherical flat convex lens system, for versatile field adjustment

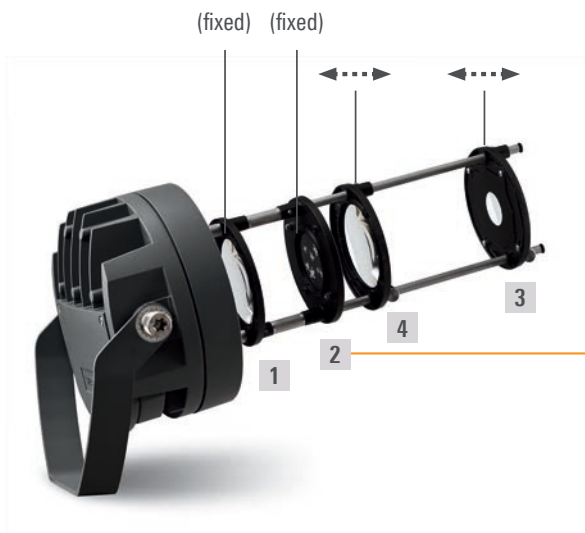
- The unique projector lens [1] delivers uniform illuminance across the projected image
- The projected image can be enlarged or reduced in size as well as focused on-site
- The dimensions of the projected image are dependent on the distance between the projector and target surface, the image or aperture size on the dedicated projection tool [2] as well as the setting of the zoom lens [3]

[1] Projector lens; fixed, factory-set position

[2] Dedicated projection tool; fixed, factory-set position

[3] Zoom lens; position on alignment rods can be field-adjusted, for reduced or enlarged image size

[4] Focusing lens; position on alignment rods can be field-adjusted for sharpening of the projected image



For each type of profile projector, one dedicated projection tool [2]

#### FLC230 PP [GP] Gobo Projector

- Gobo motif available on request (laser-cut steel or printed glass)  
Outside diameter 86 mm  
Image diameter max. 60 mm
- Factory-preset for a target surface distance of 10 m

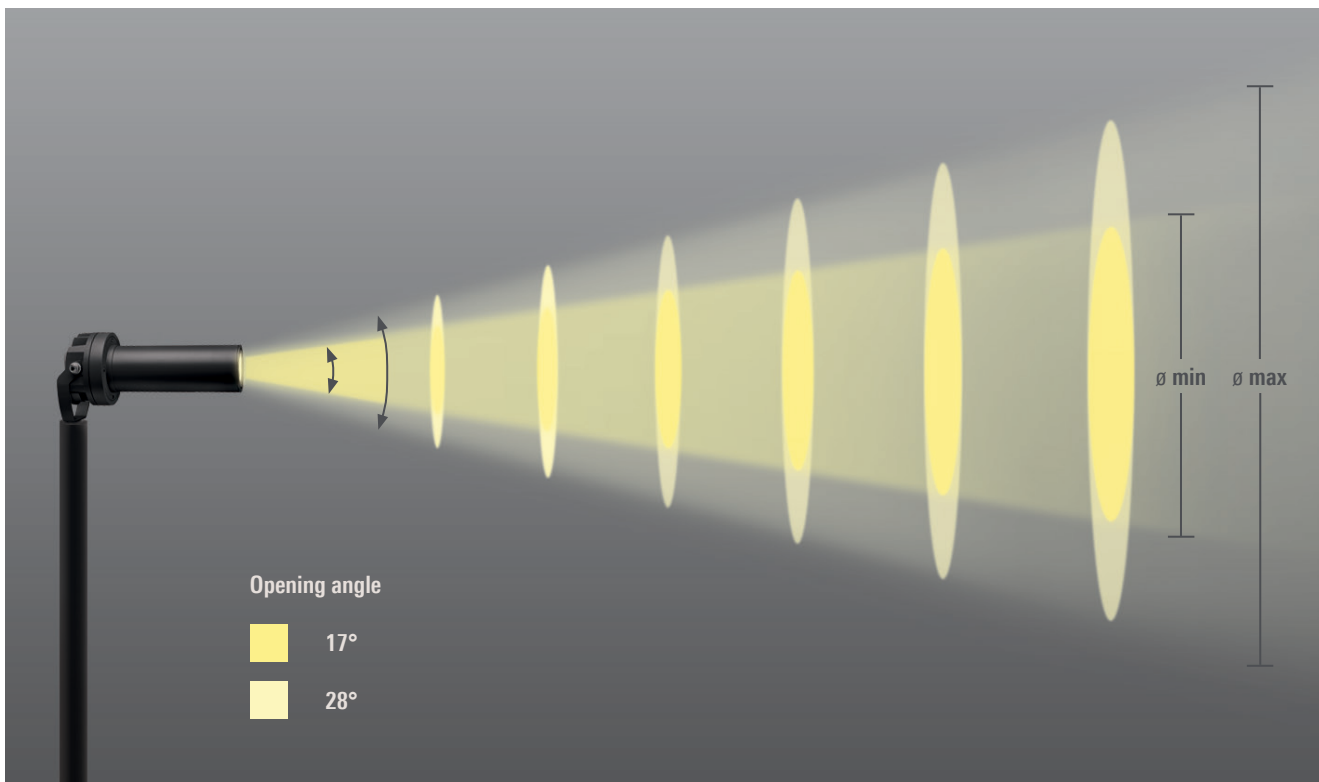
#### FLC230 PP [ZP] Zoom-Spot Projector

- Factory-preset at an opening angle of 28°, for a target surface distance of 10 m

#### FLC230 PP [FP] Framing Projector

- Factory-preset for a target surface distance of 10 m





**FLC230 PP [ZP] Projector**

Diameter of projected spot in relation to distance between projector and target surface as well as opening angle (adjustable from 17 to 28 degrees by means of zoom lens [3])

<b>Distance (m)</b>		5	10	15	20	25	30
Projector – spot							
<b>min. - max. diameter (m)</b>							
Projected spot		1.5-2.5	3.0-5.0	4.5-7.5	6.0-10.0	7.5-12.5	9.0-15.0

**FLC200 PP [GP]**

Gobo Projectors

Gobo motifs available on request

**FLC200 PP [ZP]**

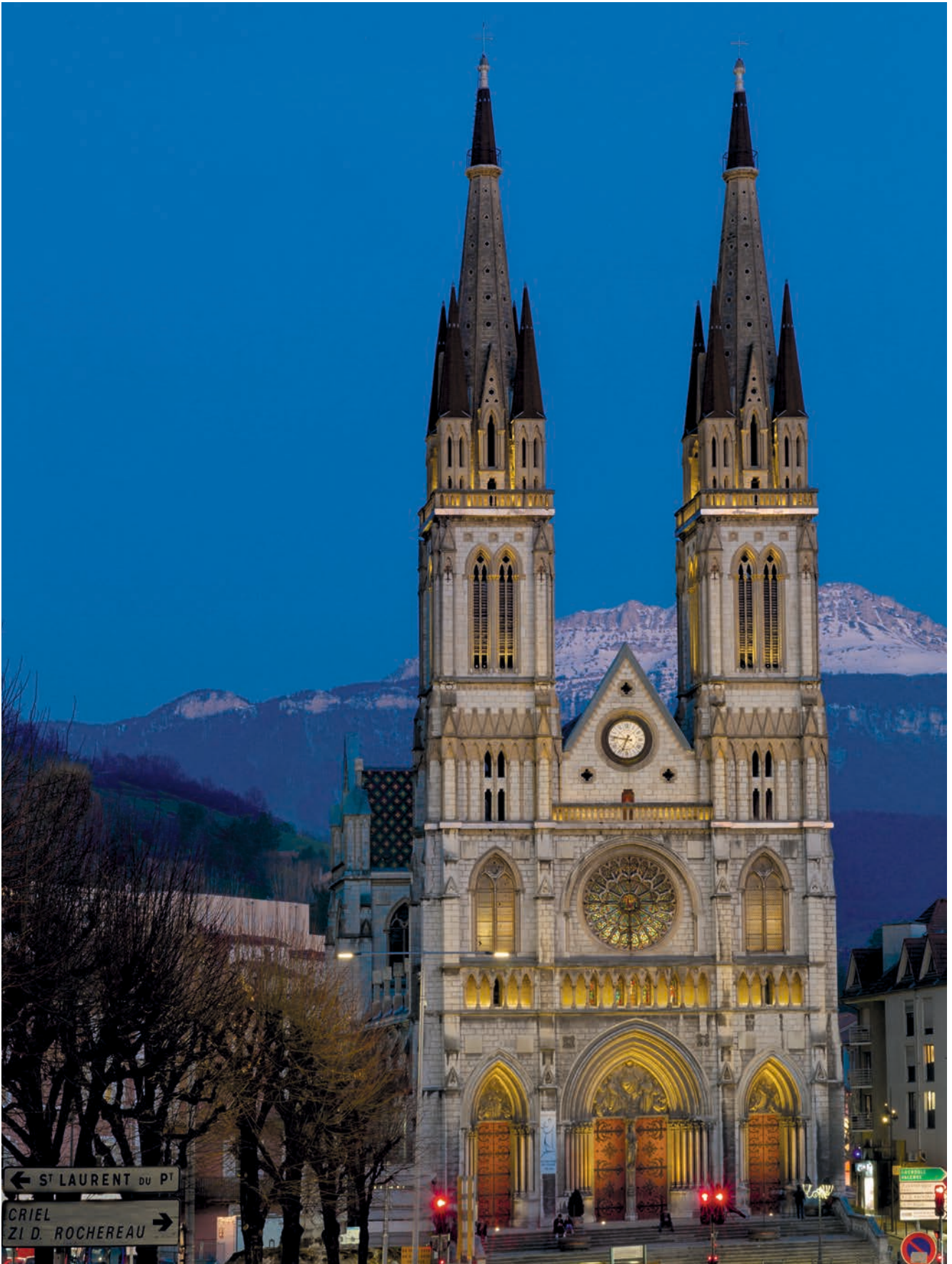
Zoom-Spot Projectors

17° - 28° adjustable opening angle

**FLC200 PP [FP]**

Framing Projectors

Adjustable polygon framing shutter



Saint Bruno Church of Voiron  
Voiron (FR)  
Project Manager: INGELUX



FLC200  
FLC200-TW  
FLC200-CC

**Internal optical accessories**

Max. 1 internal accessory



**Wallwash lens**  
for [M]

**Linear spread lens**  
for [M] [E] [EE] [EES]

**Flood lens**  
for [M] [E] [EE] [EES]

**Honeycomb louvre**  
for [E] [EE] [EES]

**External optical accessories**

Max. 1 external accessory



**Glare shield**  
for [B] [M] [E] [EE] [EES]

**Snoot**  
for [B] [M] [E] [EE] [EES]



**FLC200**

Fitted with optional glare shield; provides cut-off glare control in one plane only; alignable in 90° steps



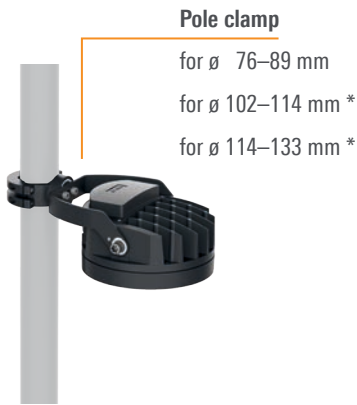
**FLC200**

Fitted with optional snoot; provides cut-off glare control in all planes; recommended for downward aiming only

FLC200  
FLC200-TW  
FLC200-CC

FLC200 PP  
FLC200-TW PP  
FLC200-CC PP

### Mounting Accessories



\* Not available for FLC201



### FLC200

Mounted on optional pole clamp; suits diameters of 76 mm to 133 mm

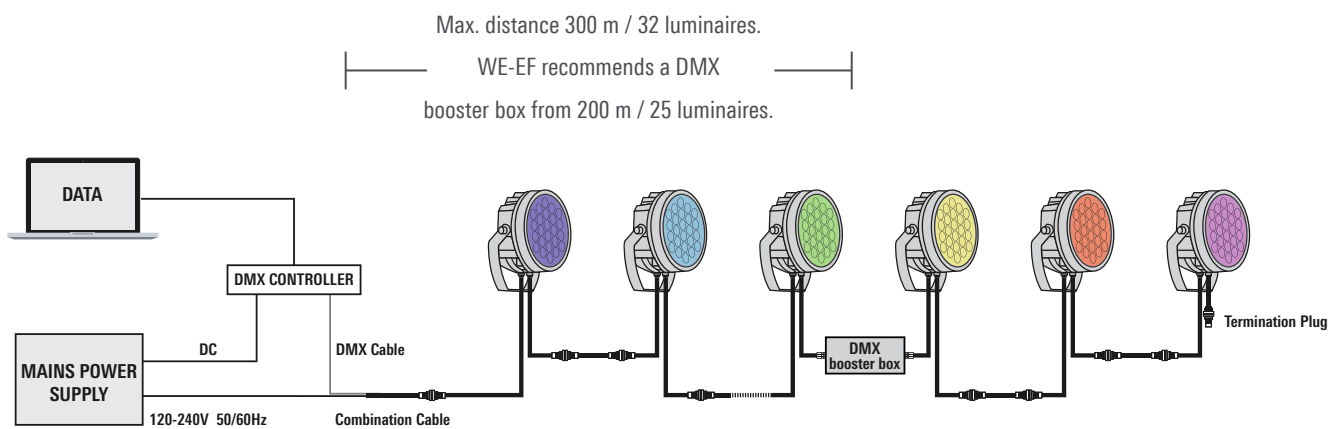


### Hardwired DMX

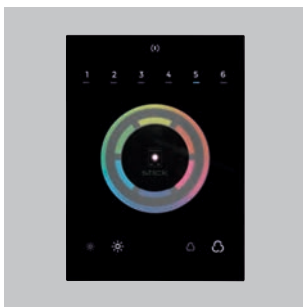
Each FLC200-CC colour changer features a DMX control interface. As standard the FLC200-CC can be supplied with DMX and power cables in varying lengths, please specify when ordering.

### Wiring schematic – single layout

The projectors do not need to be opened for installation. Power and data connections are simply made via the junction boxes.



WE-EF can assist with the selection of support equipment for your project.



**DMX Controller**

The Touch Panel is an intuitive and easy-to-use keypad for one DMX universe.



**DMX booster box**

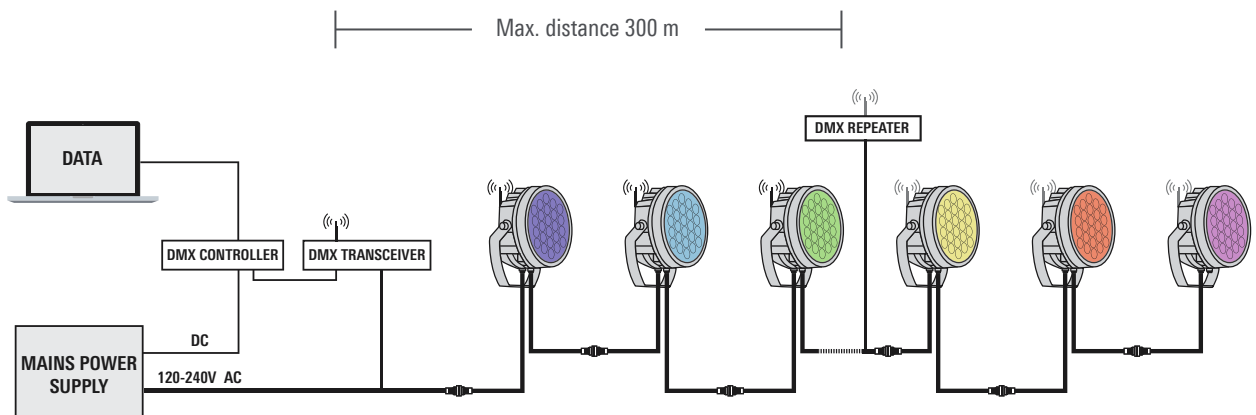
Designed to increase the DMX signal.  
(Illustration shows booster without box)

## Wireless DMX

Each FLC200-CC colour changer features a DMX control interface. Dedicated FLC200-CC versions for wireless data transmission are available on request. Such a requirement must be specified at the time of ordering.

## Wiring schematic

All projectors are equipped with an antenna. Depending on the number, the distance and the local topography, repeaters may have to be used for radio transmission.



WE-EF can assist with the selection of support equipment for your project.



**DMX Wireless Antenna**



**DMX Controller Smart**

The (RDM ready) Touch Panel allows for bi-directional data flow for optimal wireless installations.



**DMX Transceiver**

Wireless transmission of signal up to 300 m



- Luminaire housing: Marine-grade, die-cast aluminium alloy
- Corrosion protection: 5CE, including PCS hardware
- Driver: Integral EC electronic converter
- Main lens: Safety glass
- Gasketing: Silicone CCG® Controlled Compression Gasket
- Optics: CAD-optimised for superior illumination and glare control  
OLC® One LED Concept
- Installation: The luminaire is factory-sealed and does not need to be opened during installation

CLASS  
I

IP66

IK08

Available distributions:  
[B] [M] [EE] [EES]

Standard colours:



RAL 9004 9006 9007 7016 9016



[B] Symmetric, wide beam

[M] Symmetric, medium beam

[EE] Symmetric, very narrow beam

[EES] Symmetric, very narrow beam, 'sharp cut-off'

FLC301

[B] [M] [EE] [EES]

4 W

530 lm

Max. 1 internal accessory

Max. 1 external accessory



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 203



- Luminaire housing: Marine-grade, die-cast aluminium alloy
- Corrosion protection: 5CE, including PCS hardware
- Driver: Integral EC electronic converter
- Main lens: Safety glass
- Gasketing: Silicone CCG® Controlled Compression Gasket
- Optics: CAD-optimised for superior illumination and glare control  
OLC® One LED Concept
- Installation: The luminaire is factory-sealed and does not need to be opened during installation

CLASS  
I

IP66

IK08

Available distributions:  
[B] [M] [EE] [EES]

Standard colours:



RAL 9004 9006 9007 7016 9016





[B] Symmetric, wide beam

[M] Symmetric, medium beam

[EE] Symmetric, very narrow beam

[EES] Symmetric, very narrow beam, 'sharp cut-off'



FLC301 Wall bracket

[B] [M] [EE] [EES]

4 W

530 lm

Max. 1 internal accessory

Max. 1 external accessory



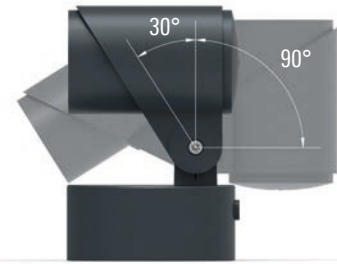
- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 203

**CCG® Controlled Compression Gasket**

- Weatherproof, non-ageing, high temperature rated silicone rubber
- Provides long-term, maintained, high IP ratings

**IOS® Innovative Optical System**

- In-house CAD design
- Precision manufactured optical system
- High photometric performance, beam efficiency and control
- Superior glare control and visual comfort through appropriate shielding angles
- High efficiency within the 50% 'half beam' angle
- Minimum light spillage beyond the 10% 'field' angle

**Vertical aiming****Main lens**

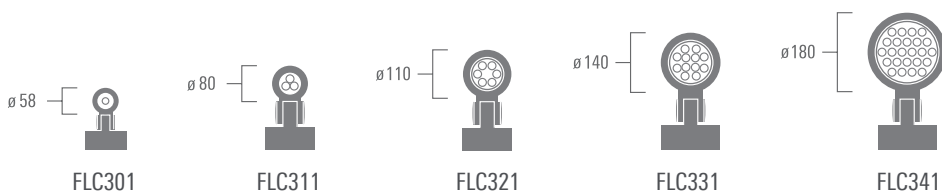
- Safety glass
- 'Flush sealing' helps prevent accumulation of water, dust and debris when aimed vertically upwardst

**Driver**

- Choice for AC mains or 24 VDC power supply
- Integral EC electronic converter

**LED circuit board**

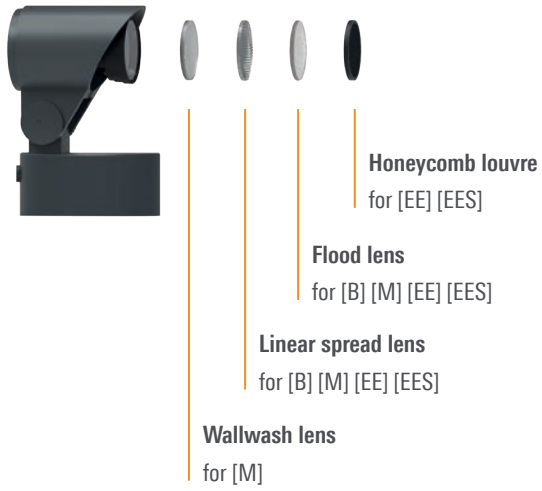
- High thermal conductivity material

**Available in 5 sizes**

## FLC300

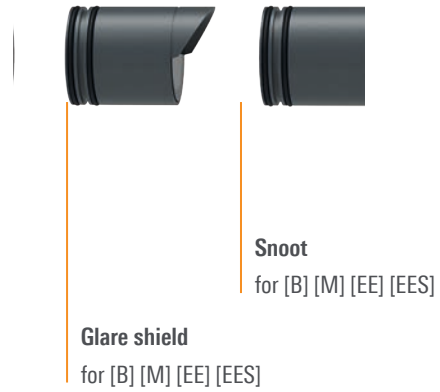
### Internal optical accessories

Max. 1 internal accessory

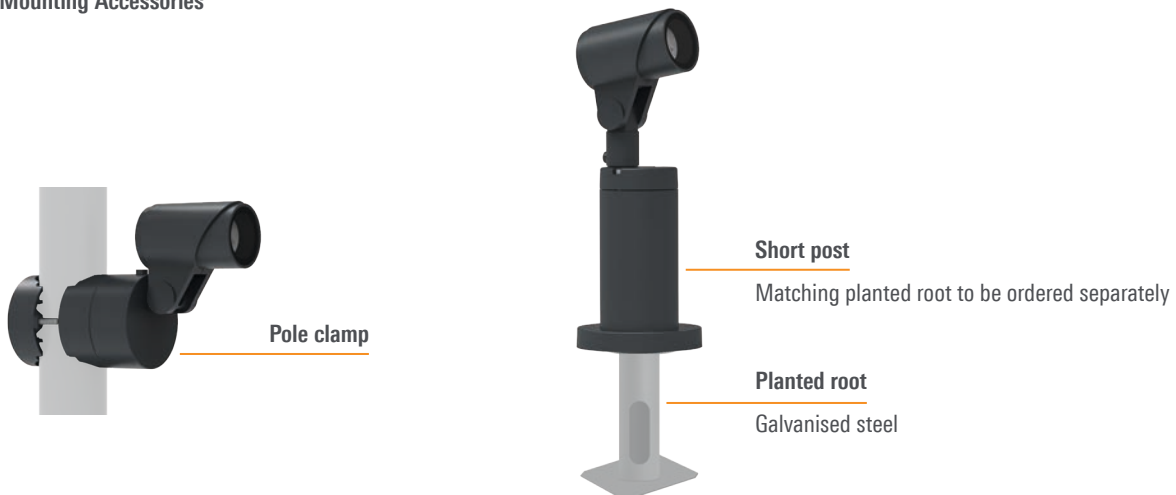


### External optical accessories

Max. 1 external accessory



### Mounting Accessories





Luminaire housing:	Stainless steel construction
Corrosion protection:	5CE, including PCS hardware
Driver:	ULC210: Electronic converter required, to be ordered separately ULC230: Integral EC electronic converter
Main lens:	Safety glass
Gasketing:	Silicone rubber gasket
Optics:	CAD-optimised for superior illumination and glare control OLC® One LED Concept
Installation:	Underwater, up to 10 metres. Suitable for continuously submerged applications in all types of pools, including saltwater. The luminaire is factory-sealed and does not need to be opened during the installation. 10 m flexible PVC free cable. IP68 in-line connector. Installation and operation of these floodlights are subject to national electrical and safety regulations for underwater lighting

ULC210	CLASS III	IP68	IK09
ULC230	CLASS I	IP68	IK10



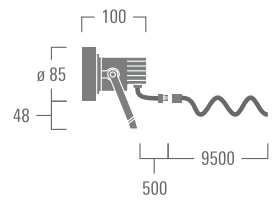
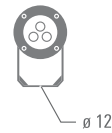


[M] Symmetric, medium beam

[EE] Symmetric, very narrow beam

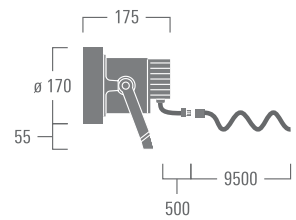
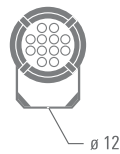
## ULC210

[M] [EE]  
2-3 W  
160-310 lm



## ULC230

[M] [EE]  
24 W  
2450-2540 lm



- For detailed specifications, product codes and latest performance data, refer to [www.we-ef.com](http://www.we-ef.com)
- Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to [www.we-ef.com](http://www.we-ef.com)