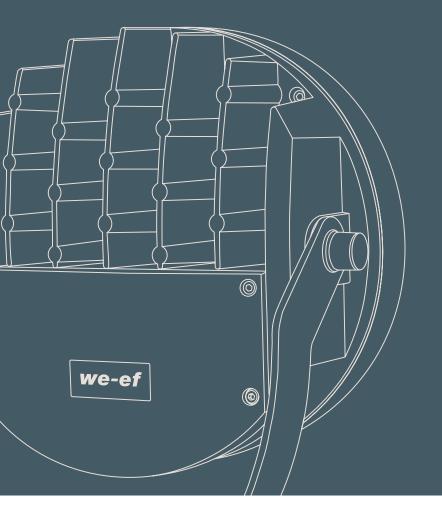
### we-ef

# **WE-EF LIGHTING USA**

General Catalog North American Edition

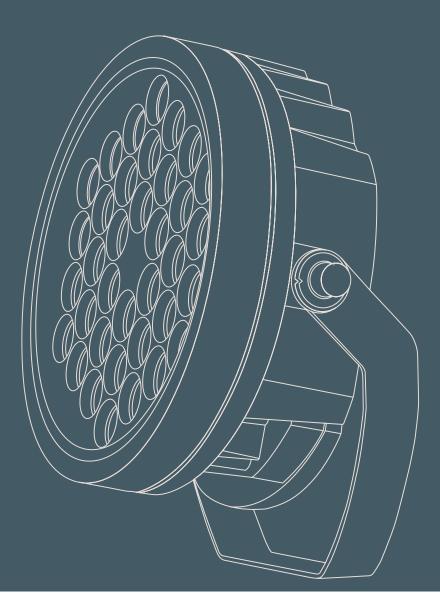




Versatility and precision – projectors are the ideal means for the setting in scene of buildings, façades, monuments and sculptures with directional light.

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 color 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	170
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FLC102	176
FLC100 Remote	178
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FLC200-TW PP	210
FLC200-CC PP	212





Projectors

For detailed specifications, product codes and latest performance data, refer to 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'.





#### NAME AND ADDRESS AND ADDRESS AND ADDRESS ADDRES

Marine-grade, die-cast aluminum alloy Luminaire housing: Corrosion protection: 5CE, including PCS hardware Integral EC electronic converter Main lens: Safety glass Silicone CCG<sup>®</sup> Controlled Compression Gasket Gasketing: Optics: CAD-optimized for superior illumination and glare control OLC<sup>®</sup> One LED Concept Installation: The luminaire is factory-sealed and does not need to be opened during installation Optional 0-10V dimming version available. To be specified at time of ordering





IK07

Available distributions: [W] [M] [VN] [VNS] [A20]





[M] Symmetric, medium beam

[VN] Symmetric, very narrow beam

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

[A20] Asymmetric, wallwash

FLD111

[M] [VN] [VNS] [A20]

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



2.17

 $\vdash$ 

□ 3.74



2700 K 3000 K 4000 K

- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at  $T_q = 25^{\circ}C$
- For accessories, refer to page 186



Luminaire housing:	Marine-grade, die-cast aluminum alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter in thermally-shielded compartment
Main lens:	Safety glass, hinged
Gasketing:	Silicone CCG <sup>®</sup> Controlled Compression Gasket
Optics:	IOS® Innovative Optical System
	CAD-optimized for superior illumination and glare control
	OLC <sup>®</sup> One LED Concept
Installation:	FS Factory-sealed luminaire does not need to be opened during installation
Control options:	Optional 0-10V dimming version available. To be specified at time of ordering

Available distributions: [W] [M] [VN] [P65] [S70] [A60] [R65]



CLASS

1

IK08

IP66



[W] Symmetric, wide beam [M] Symmetric, medium beam [VN] Symmetric, very narrow beam



[P65] Pedestrian/bicycle lane [S70] Streetlighting [A60] Asymmetric 'forward throw' [R65] Rectangular 'side throw'





Horizontal aiming

FLB141 Spigot mounted

Vertical aiming

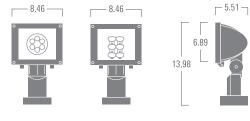




Spigot mounted

- 8.46 -- 8.46 -<u>5.51</u> 6.89 9.84





[W] [M] [VN] [P65] [S70] [A60] [R65]

18-26 W 1320-2510 lm Max. 1 internal accessory Max. 1 external accessory

[W] [M] [VN] [P65] [S70] [A60] [R65] 18-26 W 1320-2510 lm Max. 1 internal accessory Max. 1 external accessory

FLB141

- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com

- Shown above are rated lumens for 3000 K at  $T_q=25^\circ\text{C}$
- For accessories, refer to page 186

T. TT 2700 K 3000 K 4000 K

# WALL BRACKET



Luminaire housing:	Marine-grade, die-cast aluminum alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter in thermally-shielded compartment
Main lens:	Safety glass, hinged
Gasketing:	Silicone CCG <sup>®</sup> Controlled Compression Gasket
Optics:	IOS® Innovative Optical System
	CAD-optimized for superior illumination and glare control
	OLC® One LED Concept
Installation:	FS Factory-sealed luminaire does not need to be opened during installation
Control options:	Optional 0-10V dimming version available. To be specified at time of ordering

Available distributions: [W] [M] [VN] [P65] [S70] [A60] [R65]

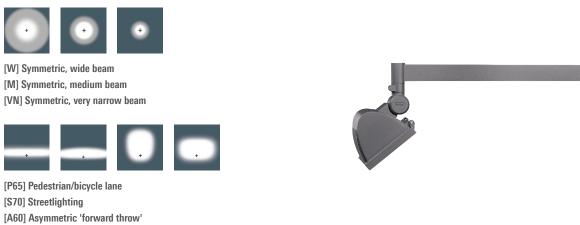


CLASS

1

IK07

IP55



[R65] Rectangular 'side throw'



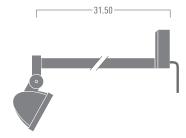
Horizontal aiming

FLB141 Wall bracket

Vertical aiming

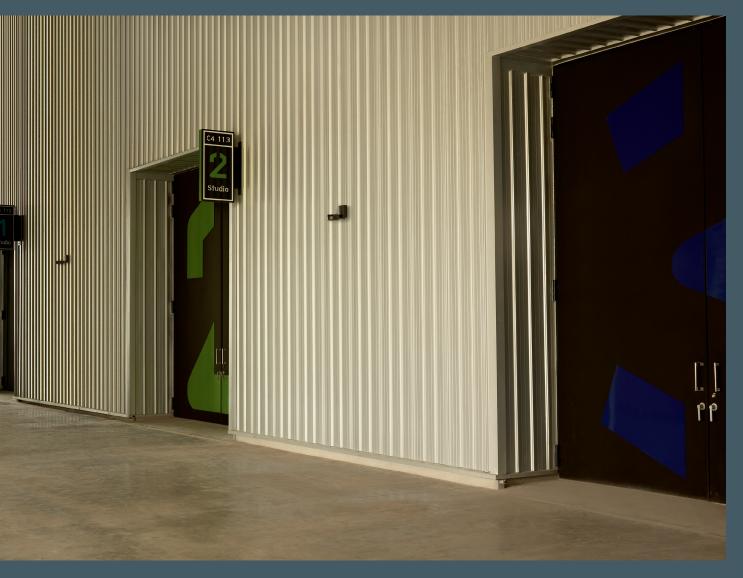


[W] [M] [VN] [P65] [S70] [A60] [R65] 18-26 W 1320-2510 lm Max. 1 internal accessory Max. 1 external accessory



2700 K 3000 K 4000 K

- For detailed specifications, product codes and
- latest performance data, refer to www.we-ef.com
- $\blacksquare$  Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 186



Luminaire housing:	Marine-grade, die-cast aluminum alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter
Main lens:	Safety glass
Gasketing:	Silicone CCG <sup>®</sup> Controlled Compression Gasket
Optics:	CAD-optimized 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

1

IP66

IK07

Available distributions: [W] [M] [VN] [VNS] [A20]



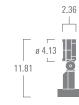
[W] Symmetric, wide beam

[M] Symmetric, medium beam

[VN] Symmetric, very narrow beam

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

[A20] Asymmetric, wallwash



FLC102

[W] [M] [VN] [VNS] [A20]

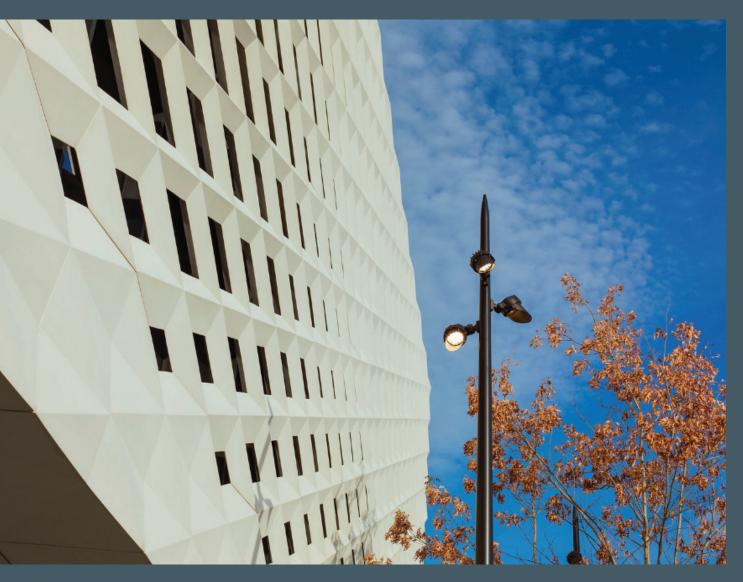
12 W 1030-1370 lm Max. 1 internal accessory Max. 1 external accessory



Т Т Т 2700 К 3000 К 4000 К

- For detailed specifications, product codes and
- latest performance data, refer to www.we-ef.com  $\hfill \label{eq:shown}$   $\hfill \hfill \$
- For accessories, refer to page 187





Luminaire housing:Marine-grade, die-cast aluminum alloyCorrosion protection:5CE, including PCS hardwareDriver:Integral EC electronic converterMain lens:Safety glassGasketing:Silicone CCG® Controlled Compression GasketOptics:CAD-optimized for superior illumination and glare control<br/>oLC® One LED ConceptInstallation:The luminaire is factory-sealed and does not need to be opened during installation



CLASS

Т

IK07

IP66

**ZOOM Office Building, Berlin (DE)** Architect (design): Hascher Jehle Architecture Architect (implementation): Aukett + Heese Lighting design: Lichtvision Design

Available distributions: [W] [M] [VN] [VNS] [A20]



[W] Symmetric, wide beam

[M] Symmetric, medium beam

[VN] Symmetric, very narrow beam

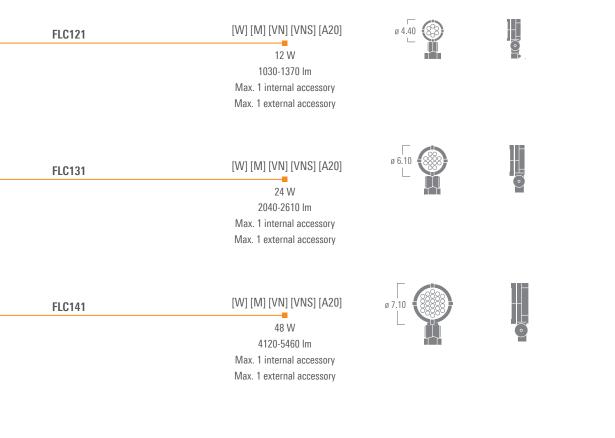
[VNS] Symmetric, very narrow beam, 'sharp cut-off'

[A20] Asymmetric, wallwash

T

ĪĪ

2700 K 3000 K 4000 K





For detailed specifications, product codes and

- latest performance data, refer to www.we-ef.com
- $\scriptstyle \bullet$  Shown above are rated lumens for 3000 K at  $T_q = 25^{\circ}\text{C}$
- For accessories, refer to page 187





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

Available distributions: [W] [M] [VN] [VNS] [A20]



CLASS

1

IK07

IP66



[W] Symmetric, wide beam

[M] Symmetric, medium beam

[VN] Symmetric, very narrow beam

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

TTT

2700 K 3000 K 4000 K

[A20] Asymmetric, wallwash

		r La
FLC121	[W] [M] [VN] [VNS] [A20]	ø 4.13
	12 W 1030-1370 lm Max. 1 internal accessory Max. 1 external accessory	2.76
FLC131	[W] [M] [VN] [VNS] [A20]	Ø 5.71
	24 W 2040-2610 lm Max. 1 internal accessory Max. 1 external accessory	
	ivida. I caterrial accessory	3.15
FLC141	[W] [M] [VN] [VNS] [A20]	ø 7.09
	48 W 4120-5460 lm Max. 1 internal accessory Max. 1 external accessory	



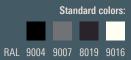
2.36

• For detailed specifications, product codes and

- latest performance data, refer to www.we-ef.com
- $\blacksquare$  Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 187



Luminaire housing:	Marine-grade, die-cast aluminum alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter
Main lens:	Safety glass
Gasketing:	Silicone CCG <sup>®</sup> Controlled Compression Gasket
Optics:	CAD-optimized for superior illumination and glare control
	OLC <sup>®</sup> One LED Concept
Installation.	The luminaire is factory scaled and doos not need to be enabled during installation



CLASS I

IK07

IP66

Available distributions: [W] [M] [VN] [VNS] [A20]



[W] Symmetric, wide beam

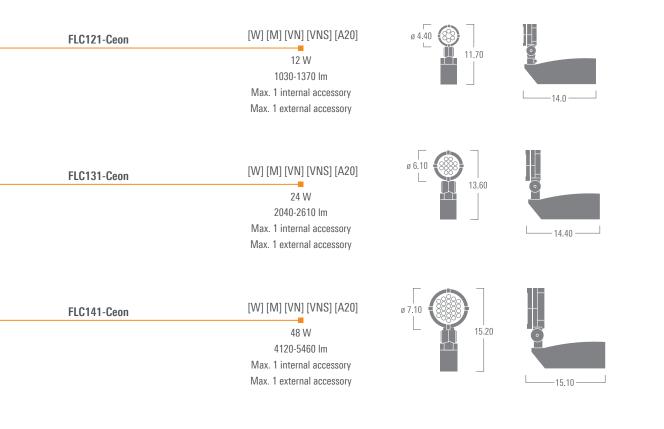
[M] Symmetric, medium beam

[VN] Symmetric, very narrow beam

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

[A20] Asymmetric, wallwash





2700 K 3000 K 4000 K

- For detailed specifications, product codes and
- latest performance data, refer to www.we-ef.com  $\hfill \label{eq:shown}$   $\hfill \hfill \$
- For accessories, refer to page 187



**FLC100** 





IP55	IK07
	IP55

Luminaire housing:Marine-grade, die-cast aluminum alloyCorrosion protection:5CE, including PCS hardwareDriver:Integral EC electronic converterMain lens:Safety glassGasketing:Silicone CCG® Controlled Compression GasketOptics:CAD-optimized for superior illumination and glare control<br/>oLC® One LED ConceptInstallation:The luminaire is factory-sealed and does not need to be opened during installation

**Concord City Place** (US)

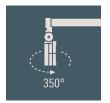
Available distributions: [W] [M] [VN] [VNS] [A20]





[W] Symmetric, wide beam
[M] Symmetric, medium beam
[VN] Symmetric, very narrow beam
[VNS] Symmetric, very narrow beam, 'sharp cut-off'
[A20] Asymmetric, wallwash





Horizontal aiming



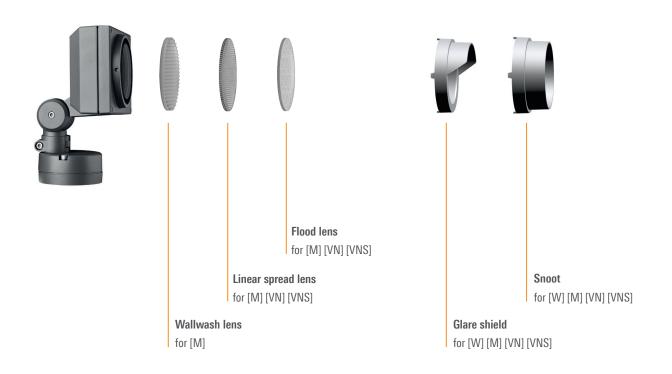
Vertical aiming

FLC121 Wall bracket	[W] [M] [VN] [VNS] [A20] 12 W 1030-1370 Im Max. 1 internal accessory Max. 1 external accessory	32.76
FLC131 Wall bracket	[W] [M] [VN] [VNS] [A20] 24 W 2040-2610 lm Max. 1 internal accessory Max. 1 external accessory	32.76
FLC141 Wall bracket	[W] [M] [VN] [VNS] [A20] 48 W 4120-5460 lm Max. 1 internal accessory Max. 1 external accessory	32.83

For detailed specifications, product codes and

- latest performance data, refer to www.we-ef.com
- $\blacksquare$  Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 187

Т Т Т 2700 К 3000 К 4000 К Internal optical accessories Max. 1 internal accessory External optical accessory Max. 1 external accessory

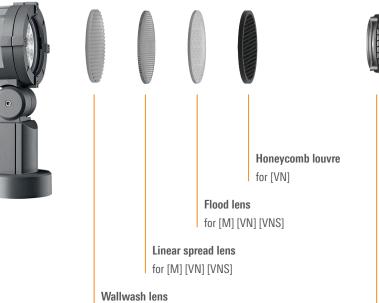


#### **Ounting Accessories**



#### FLC100 / FLC100 Wall bracket

Internal optical accessories Max. 1 internal accessory External optical accessories Max. 1 external accessory



Snoot for [W] [M] [VN] [VNS] Wire guard for [W] [M] [VN] [VNS]

**Mounting Accessories** 



for [M]









# 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 Antic

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





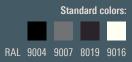


Luminaire housing:	Marine-grade, die-cast aluminum alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	FLC201: Remote driver required, to be ordered separately
	FLC210-FLC260: Integral EC electronic converter
Main lens:	Safety glass
Gasketing:	Silicone CCG <sup>®</sup> Controlled Compression Gasket
Optics:	CAD-optimized for superior illumination and glare control
	OLC® One LED Concept
Installation:	One cable gland.
	FLC220-FLC260: Second gland for through wiring on reques
Control:	FLC220-FLC260: Optional 0-10V dimming 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



Available distributions: [W] [M] [N] [VN] [VNS] [A20]





[M] Symmetric, medium beam

[N] Symmetric, narrow beam

[VN] Symmetric, very narrow beam

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





For detailed specifications, product codes and

- latest performance data, refer to www.we-ef.com  $\hfill \label{eq:shown}$   $\hfill \hfill \$
- For accessories, refer to page 206





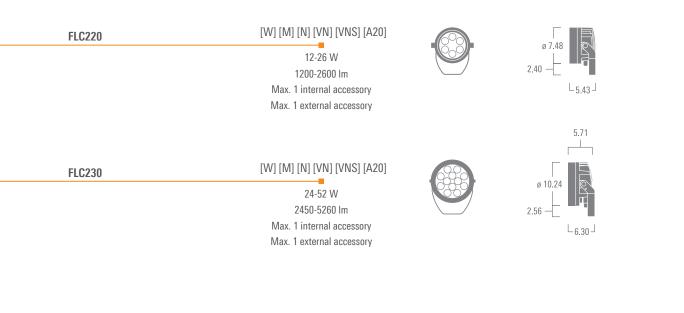
[M] Symmetric, medium beam

[N] Symmetric, narrow beam

[VN] Symmetric, very narrow beam

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

[A20] Asymmetric, wallwash





- For detailed specifications, product codes and
- latest performance data, refer to www.we-ef.com
- $\blacksquare$  Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 206

2700 K 3000 K 4000 K



[M] Symmetric, medium beam

[N] Symmetric, narrow beam

[VN] Symmetric, very narrow beam

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

[A20] Asymmetric, wallwash





- For detailed specifications, product codes and
- latest performance data, refer to www.we-ef.com
- $\hfill \hfill \hfill$
- For accessories, refer to page 206

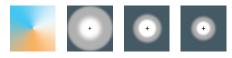
2700 K 3000 K 4000 K



Luminaire housing:	Marine-grade, die-cast aluminum alloy	FLC201	CLASS		
Corrosion protection:	5CE, including PCS hardware	1 20201	III	IP66	IK05
Driver:	FLC201-FLC210: Remote driver required, to be ordered separately	FLC210	CLASS		
	FLC220-FLC260: Integral EC electronic converter	LOLIO	1	IP66	IK05
Main lens:	Safety glass	FLC220-	CLASS		
Gasketing:	Silicone CCG <sup>®</sup> Controlled Compression Gasket	FLC260		IP66	IK07
Optics:	CAD-optimized for superior illumination and glare control				
	OLC <sup>®</sup> One LED Concept				
Installation:	Two cable glands, one for DMX, one for Power				
Technology:	WE-EF Tunable White Technology – stabilizes lumninous flux throughout 2700 K - 6000 K;				
	refer to page 372				
Control:	DMX				

Available distributions: [W] [M] [N] [VNS] [A20]





[W] Symmetric, wide beam [M] Symmetric, medium beam

[N] Symmetric, narrow beam

-

2700 K

-

6000 K





• For detailed specifications, product codes and

- latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at  $T_q = 25^{\circ}C$
- For accessories, refer to page 206



[M] Symmetric, medium beam

[N] Symmetric, narrow beam

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

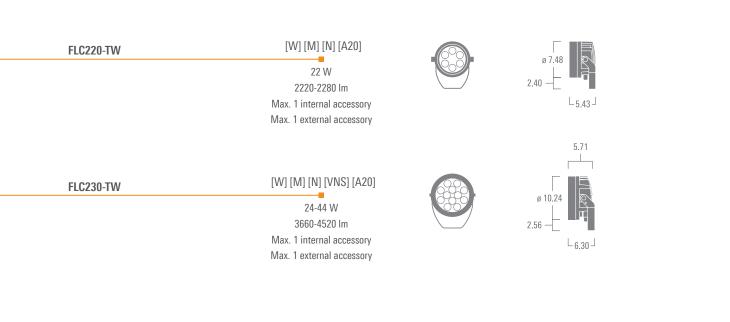
[A20] Asymmetric, wallwash

-

2700 K

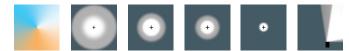
-

6000 K





- For detailed specifications, product codes and
- latest performance data, refer to www.we-ef.com
- $\blacksquare$  Shown above are rated lumens for 3000 K at  $T_q = 25^\circ\text{C}$
- For accessories, refer to page 206



[W] Symmetric, wide beam

[M] Symmetric, medium beam

[N] Symmetric, narrow beam

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

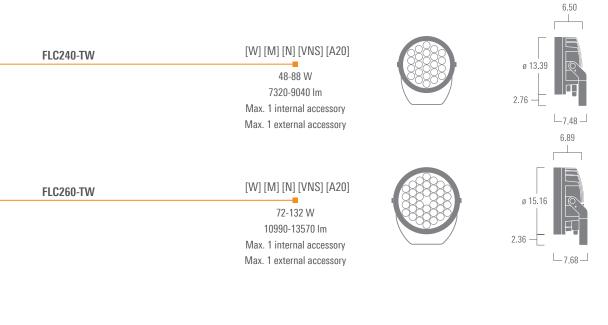
[A20] Asymmetric, wallwash

-

2700 K

-

6000 K





• For detailed specifications, product codes and latest performance data, refer to www.we-ef.com

- Shown above are rated lumens for 3000 K at  $T_q=25^\circ\text{C}$
- For accessories, refer to page 206

#### 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 minimize 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.





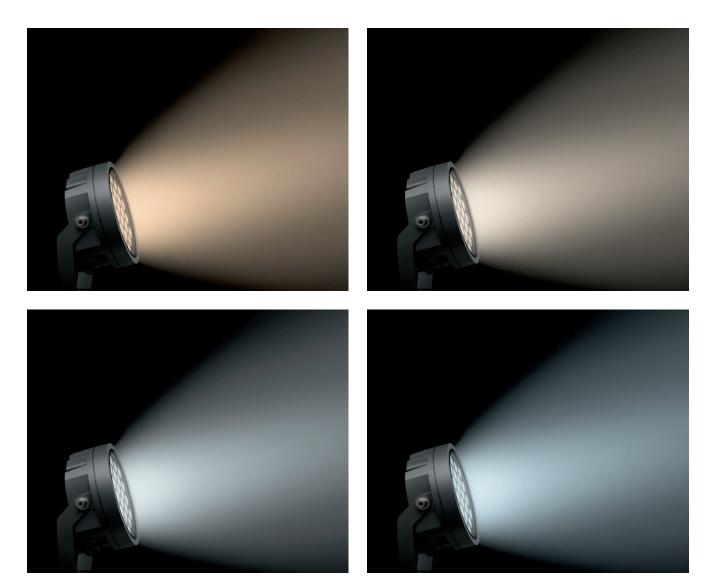


#### WE-EF Tunable White Technology

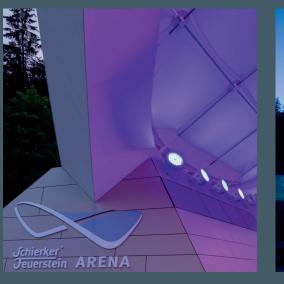
For optimum photometric performance, multiple arrays of white LEDs of different color temperatures are joined into one optical system. Tuning these different types of LEDs through separate control channels allows infinite variation from warm to neutral to cool white light as well as smooth dimming at any chosen color 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 color temperature is being adjusted. WE-EF Tunable White Technology masters this problem through smart control circuitry that stabilizes the luminous flux throughout the entire 2700 K - 6000 K tuning range.

Illuminated with different color temperatures, the colors 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.

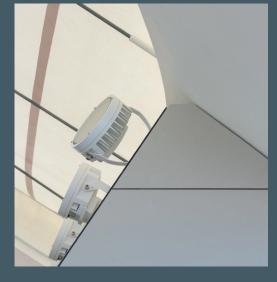


## **COLOR CHANGER**

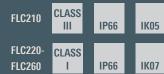








Luminaire housing:	Marine-grade, die-cast aluminum alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	FLC210: Remote driver required, to be ordered separately
	FLC220-FLC260: Integral EC electronic converter
Main lens:	Safety glass
Gasketing:	Silicone CCG <sup>®</sup> Controlled Compression Gasket
Optics:	CAD-optimized for superior illumination and glare control
	OLC <sup>®</sup> One LED Concept
Installation:	Two cable glands, one for DMX, one for power
Technology:	WE-EF Color Boost Technology – increases overall luminous flux by up to 40%;
	refer to page 373
Control:	DMX. DMX wireless: refer to page 196



Feuerstein Arena Schierke (DE) Architect: Graft Gesellschaft von Architekten Lighting design: Jackbenimble Available distributions: [W] [M] [N] [VNS] [A20]



# PROJECTORS



[W] Symmetric, wide beam [M] Symmetric, medium beam

FLC210-CC	RGBW [W] [M]	RGBA [W] [M]	
	12 W	12 W	
	750-780 lm	610-640 lm	
	Max. 1 external accessory		







- For detailed specifications, product codes and
- latest performance data, refer to www.we-ef.com
- $\hfill \ensuremath{\,^\circ}$  Shown above are rated lumens for 3000 K at  $T_q=25\ensuremath{\,^\circ} C$
- For accessories, refer to page 206

RGBW / RGBA



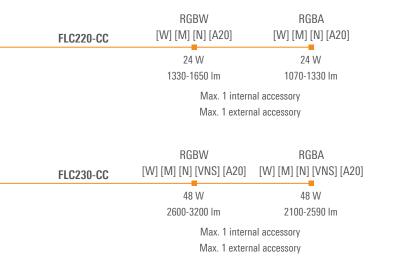
[W] Symmetric, wide beam

[M] Symmetric, medium beam

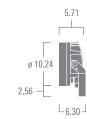
[N] Symmetric, narrow beam

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

[A20] Asymmetric, wallwash









- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at  $T_q=25^{\circ}\text{C}$
- For accessories, refer to page 206

### PROJECTORS



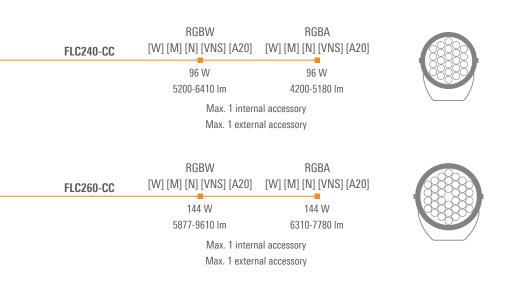
[W] Symmetric, wide beam

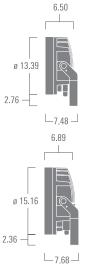
[M] Symmetric, medium beam

[N] Symmetric, narrow beam

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

[A20] Asymmetric, wallwash







• For detailed specifications, product codes and latest performance data, refer to www.we-ef.com

- Shown above are rated lumens for 3000 K at  $T_q=25^\circ\text{C}$
- For accessories, refer to page 206

### **Olympic Spirit**

Designed by artist Dominique Sutton, a 52-foot 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 Paraolympic 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 highperformance projectors that had to meet a host of stringent criteria. With their sophisticated optics that deliver outstanding color mixing as well as tight and precise beam control, WE-EF FLC200-CC RGBW color changers were the obvious choice for this demanding installation.



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



#### WE-EF Color Boost Technology

The FLC200-CC color changer is just one out of numerous luminaires that employ WE-EF's proprietary Color Boost Technology for significantly enhanced, dynamic lighting effects. By selectively controlling each individual color 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 x 25% = 100%). Generally, however, in most color 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 Color Boost Technology comes in: Maximum power given to each of the active channels increases from 25% to 33% (3 x 33% ~ 100%). While the luminaire's electronics safeguard the LEDs against overload, the overall luminous flux – depending on the colors used – is boosted by up to 40%.





#### CCG® Controlled Compression Gasket

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

#### Available in 6 sizes



FLC201



FLC210



FLC220



FLC230







FLC260

ø 15.16

### FEATURES AND BENEFITS



IOS<sup>®</sup> 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.

#### LED circuit board

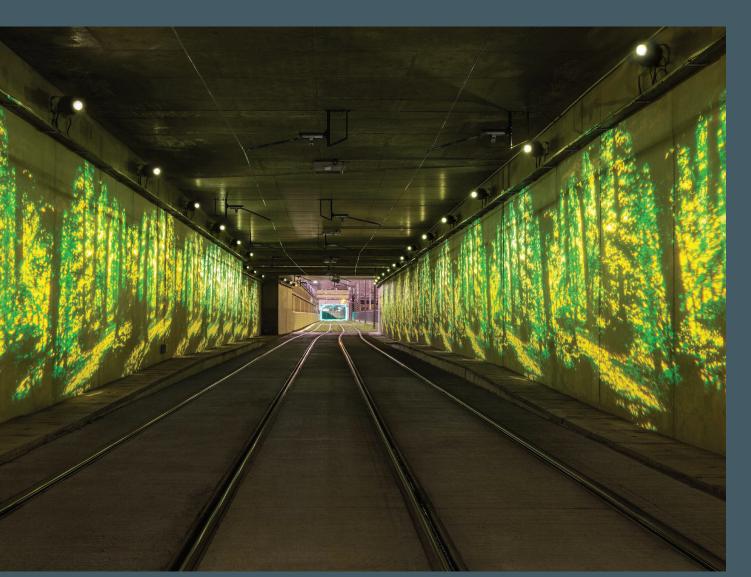
- High thermal conductivity material
- Optimized heat sinking for long-term, high-level LED performance and operational life

#### Driver

- Integral EC electronic converter in thermallyseparated compartment
- High voltage surge protection

#### Cable entry

- Static white: One cable gland, second gland for through wiring on request
- TW & CC: Two cable glands, one for DMX control, one for power



Luminaire housing:	Marine-grade, die-cast aluminum alloy	FLC210	CLASS		
Corrosion protection:	5CE, including PCS hardware	FLGZIU	III	IP66	IK05
Driver:	FLC210: Remote driver required, to be ordered separately	FLC220 -	CLASS		
	FLC220-FLC230: Integral EC electronic converter	FLC230	I	IP66	IK07
Main lens:	Safety glass				
Gasketing:	Silicone CCG <sup>®</sup> 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 0-10V dimming version available. To be specified at time of ordering				

FLC200 PP



# PROJECTORS

gobo [GP] for gobo projections [ZP] for zoom-spot applications [FP] for polygon framing applications [GP] [ZP] [FP] FLC210 PP ø 5.91 ø 3.94 18-26 W 1.85 -660-1835 lm [GP] [ZP] [FP] FLC220 PP ø7.48 ø4.72 24-37 W 6.50 959-2592 lm └── 9.45 ─└─ 5.43 ┘ 5.71 [GP] [ZP] [FP] FLC230 PP ø 10.24 ø 6.61 36-52 W 1264-3253 lm 2.56 — — 17.72 — ⊥6.30┘

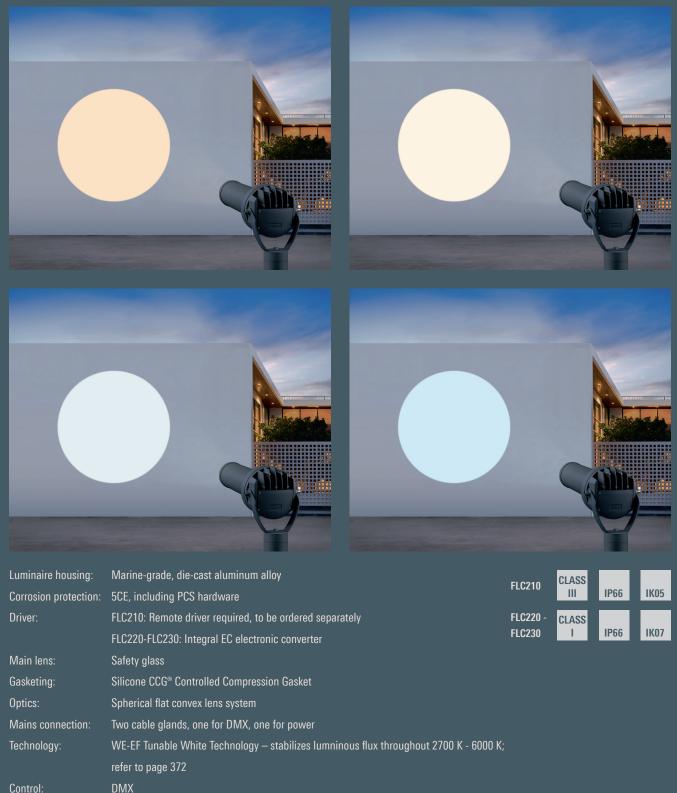


- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at  $T_q=25^\circ\text{C}$
- For accessories, refer to page 216



### FLC200-TW PP

## **TUNABLE WHITE PROFILE PROJECTORS**



Control:

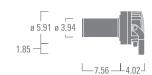
Available distributions: [GP] [ZP] [FP]



gobo

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

FLC210-TW PP





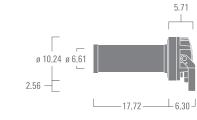


[GP] [ZP] [FP] 10 W

190-550 lm

FLC220-TW PP	[GP] [ZP] [FP]
	18 W
	290-750 lm

6.50 └── 9.45 ── 5.43 ┘



| \_\_\_\_\_ ø 7.48 ø 4.72





FLC230-TW PP

-

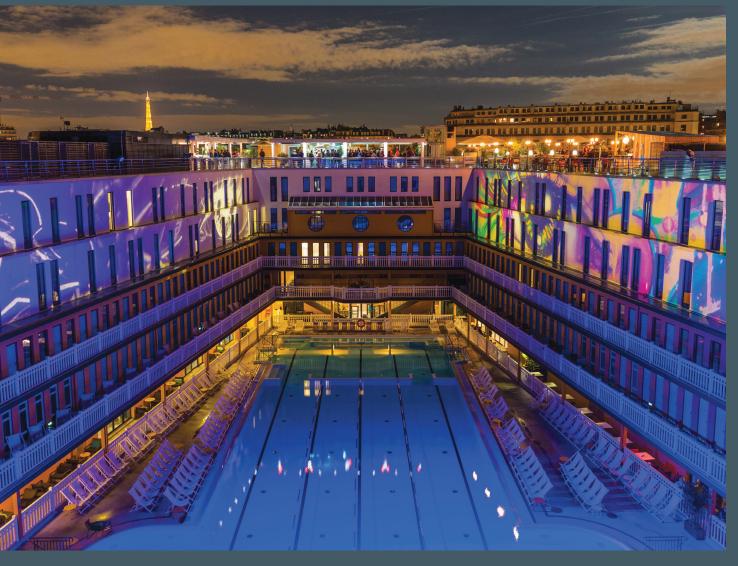
6000 K



- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at  $T_q=25^\circ\text{C}$
- For accessories, refer to page 216

-2700 K

# COLOR CHANGER PROFILE PROJECTORS



Luminaire housing:			CLASS III	IP66	
Corrosion protection:					IK05
Driver:	FLC210: Remote driver required, to be ordered separately	FLC220 -	CLASS		
	FLC220-FLC230: Integral EC electronic converter	FLC230	I	IP66	IK07
Main lens:	Safety glass				
Gasketing:	Silicone CCG <sup>®</sup> Controlled Compression Gasket				
Optics:	Spherical flat convex lens system				
Mains connection:	Two cable glands, one for DMX, one for power				
Technology:	WE-EF Color Boost Technology – increases overall luminous flux by up to 40%;				
	refer to page 373				
Control:	DMX, DMX wireless; refer to page 196				

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



### **PROJECTORS**

gobo

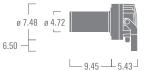
[GP] for gobo projections [ZP] for zoom-spot applications [FP] for polygon framing applications



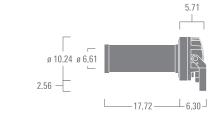
















RGBW	RGBA
[GP] [ZP] [FP]	[GP] [ZP] [FP]
24 W	24 W
260-670 lm	220-570 lm
	[GP] [ZP] [FP] 24 W

	RGBW	RGBA
FLC230-CC PP	[GP] [ZP] [FP]	[GP] [ZP] [FP]
	48 W	48 W



- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at  $T_q=25^\circ\text{C}$
- For accessories, refer to page 216

RGBW / RGBA

#### 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



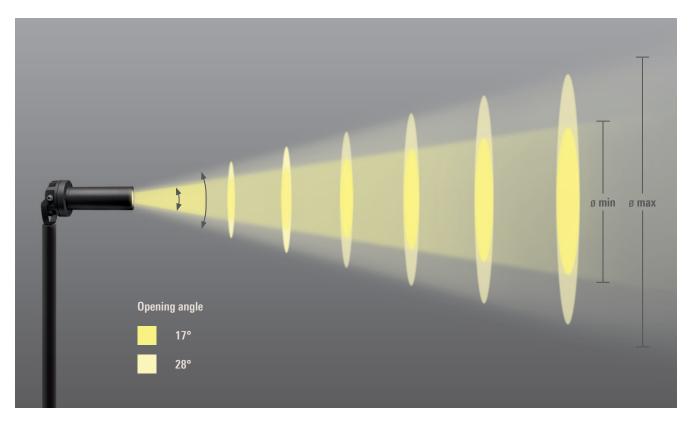
#### FLC230 PP [ZP] Zoom-Spot Projector

 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> Projector — spot	5	10	15	20	25	30
min max. diameter (m) 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 PROFILE PROJECTORS

# LUMINAIRE APPLICATION



**FLC200 PP [GP]** Gobo Projectors Gobo motifs available on request

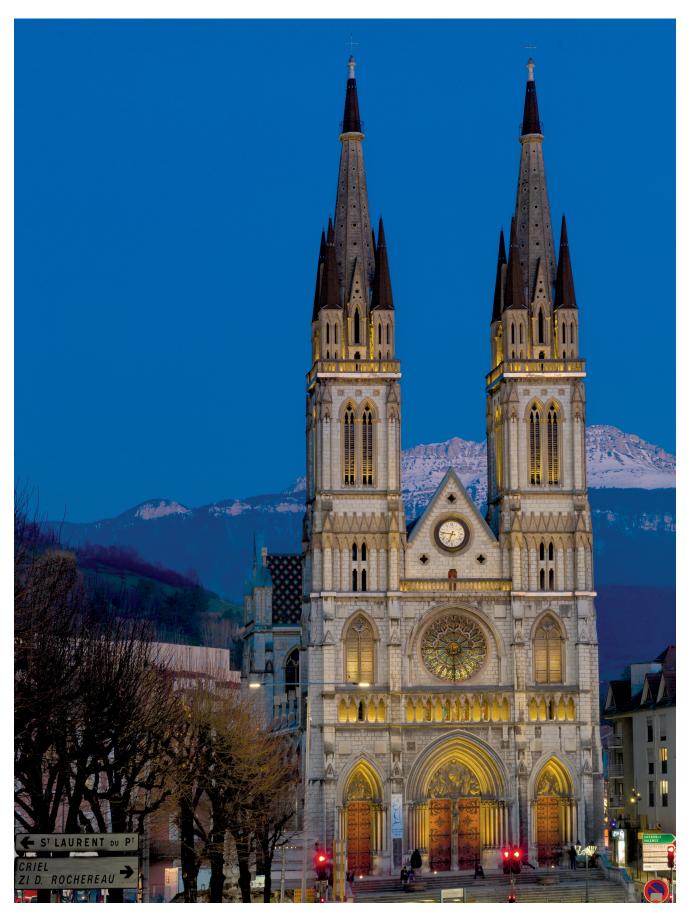
**FLC200 PP [ZP]** Zoom-Spot Projectors 17° - 28° adjustable opening angle





**FLC200 PP [FP]** Framing Projectors Adjustable polygon framing shutter

216



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

### FLC200 FLC200-TW FLC200-CC

Internal optical accessories Max. 1 internal accessory

 Image: Solution of the second constraints of the second constrain



**External optical accessories** 

Max. 1 external accessory

### FLC200

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

### FLC200

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

### ACCESSORIES

 FLC200
 FLC200 PP

 FLC200-TW
 FLC200-TW PP

 FLC200-CC
 FLC200-CC PP

**Mounting Accessories** 





\* Not available for FLC201



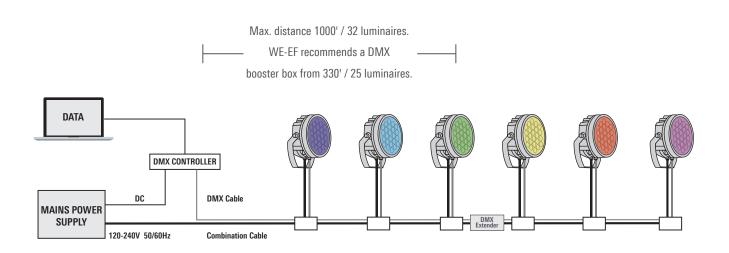
FLC200 Mounted on optional pole clamp; suits diameters of 3 to 5.2"

#### Hardwired DMX

Each FLC200-CC color 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.



NICOLAUDIE (TM) STICK-CW4 The Touch panel is an intuitive and easy-to-use keypad for one DMX universe.



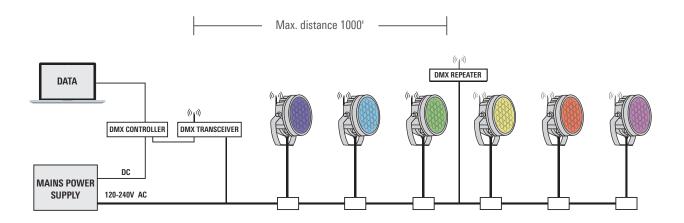
PHAROS (TM) RDM (Splitter/Extender) Designed to increase the DMX signal. (Illustration shows booster without box)

#### Wireless DMX

Each FLC200-CC color 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 equiped 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** 



PHAROS (TM) TPC + EXT The (RDM ready) Touch Panel allows for bi-directional data flow for optimal wireless installations.



LumenRadio (TM) CRMX OUTDOOR FLEX Wireless transmission of signal up to 330'

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