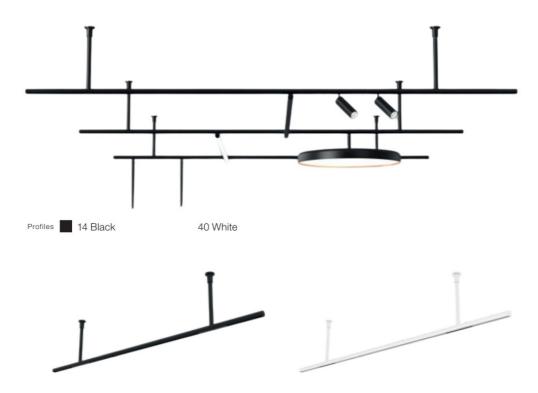


FLOS 14 Noir Infra Structure Instructions

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INFRA-STRUCTURE

Groundbreaking lighting system designed by Vincent Van Duysen for surface installation on ceiling with rigid and adjustable rods.

In the new proposal, beside the successful "On Board Dimmer" version, FLOS goes one step beyond, launching both track and luminaries designed for system management in a variety of options: DALI, 1-10V and Casambi. Both profile version are manufactured with aluminium profiling extruded in white or black, provided with electric tracks powered at 48V.

The system controlled versions (DALI, 1-10V) are also equipped with graphite data bus for regulation.

The LED light fixtures are installed by means of a magnetic fixture system with mechanical safety fastening. The light fixtures product group is composed of accent lighting modules with different optics, direct and indirect light ambient lighting systems and decorative light fixtures with the distinctive Flos design.

All light fixtures are available with potentiometer incorporated, dimmable DALI, 1-10V and Casambi to adjust the light intensity.

Control

- For installation of "On Board Dimmer" fixtures use "On Board Dimmer" track version.
 - Luminaries DALI and 1-10V are only compatible with track DALI and 1-10V.
 - Casambi luminaires can be installed on all profiles available in the system.
- To manage using DALI protocol, it is necessary to connect the control data bus directly to the profile.
- For 1-10V management, the control system must be active and the data bus must be connected directly to the
 profile. In this case, regulation will be uniform in all the connected luminaires.
- For Casambi management (Max. 200 luminaires) it is mandatory to use fixtures in the Casambi version, these are compatible with all profiles available in the system.
 - For managing and controlling the Casambi system, the FLOS Control® app powered by Casambi for mobile devices is necessary (available in the Apple Store and Google Play).
 - Maximum number of track interconnections to guarantee the communication of the DALI or 1-10V signal: 20 interconnections.

Optic system

- Light Tube Direct / Light Tube Indirect / Suspension Glass Downlight 110 / Suspension Panel 600: diffuse ambient light.
- Spot 50: Medium.
- Spot 90: Spot, Medium.
- Spot 120 Power LED (same light source as the Spot 50 and Spot 90): Spot, Medium.
- Spot 120 LED Array (same light source as the Spot 150): Medium, Flood.

- Spot 150: Spot, Medium, Flood.
- Light Shadow Spot 30: Spot, Medium, Flood, Wide Flood.
- Light Shadow Spot 45: Spot, Medium, Flood.
- Light Shadow Spot 60: Super Spot, Spot, Medium, Flood, Wide Flood.

Power Supply

Remote 48V power supply not included. Max 6A – 320W.

Accessories

For Spot and Light Shadow Spot lighting modules, shielding accessories (honeycomb and crossheads) and color temperature correction filters are available. Please check model availability.

Additional Information

IP20 protection grade.

Suitable for installation on normally inflammable surfaces.

Before placing your order, please consult the product details also on the Flos professional website, in its technical data sheet and in the installation and assembly instructions to find all the information that may not be included in this catalogue or that could be relevant to your specific project or installation.

Compliance of Standards and Quality Marks

EN60598-1 European Technical Standards and any subsequent additions.

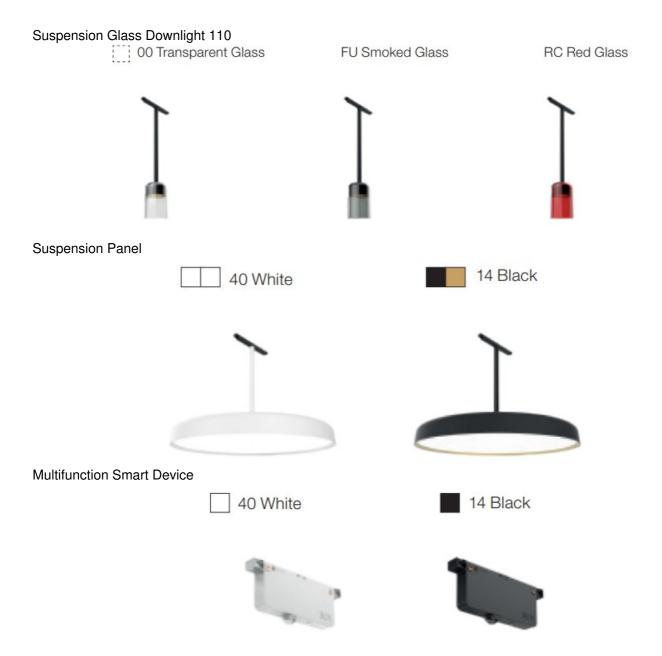
LIGHT MODULES
LIGHT TUBE
DIRECT-INDIRECT

	SPOT 50	S
LIGHT SOURCE TOP LED 23W/m 1978 I m/m 2700K/CRI 90 2227 Im/m 3000K/CRI 90	LIGHT SOURCE POWER LED 3,5W 286 lm 2700K/CRI 90 307 lm 3000K/CRI 90	LIGHT SOURCE POWER LED 8,5W 610 l m 2700K/CRI 90 656 lm 3000K/CRI 90
SPOT 120	SPOT 120	S
		6

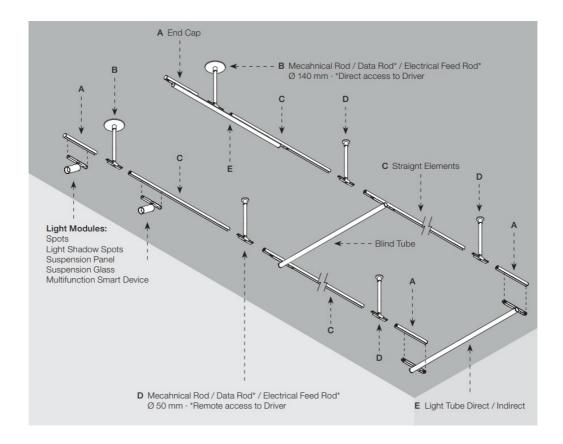
LIGHT SOURCE POWER LED 12W 724 I m 2700K/CRI 90 779 Im 3000K/CRI 90	LIGHT SOURCE LED ARRAY 12,5W 1075 I m 2700K/CRI 90 1138 Im 3000K/CRI 90	LIGHT SOURCE LED ARRAY 22,5W 2411 I m 2700K/CRI 90 2569 Im 3000K/CRI 90
LIGHT SHADOW SPOT 30	LIGHT SHADOW SPOT 45	LIGH
LIGHT SOURCE POWER LED 4,5W 257 lm 2700K/CRI 90 263 lm 3000K/CRI 90	LIGHT SOURCE LED ARRAY 10W 799 Im 2700K/CRI 90 844 Im 3000K/CRI 90	LIGHT SOURCE LED ARRAY Up to 20W Up to 1563 lm 2700K/CRI 90 Up to 1751 lm 3000K/CRI 90
SUSPENSION PANEL 600	SUSPENSION GLASS DOWNLIGHT 110	MULTI
LIGHT SOURCE TOP LED 25,6W 3332 lm 2700K/CRI 90 3540 lm 3000K/CRI 90	LIGHT SOURCE LED ARRAY 13,5W 1296 I m 2700K/CRI 90 1371 I m 3000K/CRI 90	FLOS CONTROL® by Casambi

Light Tube





PROFILES



Profiles

Tubular electromagnetic profile for surface installation in ceilings through rigid and adjustable rods (25 mm). Not adjustable rigid rods available on request.

Profiles and closure terminals are available in version compatible with luminaries "on board dimmer" and versions compatible with system controlled luminaries (DALI, 1-10V, FLOS Control by Casambi).

Tubular profiles available in two lengths: 1055 mm (1100 mm separation between rods) and 1555 mm (1600 mm separation between rods).

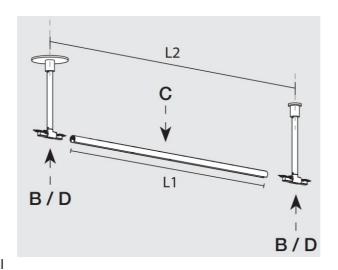
The closure terminals will also be electrified and must be ordered separately.

Mechanical and electrical rods are the same for the two profile versions and they are all available in multiple lengths (100, 300, 400, 700mm).

Different versions of fastening rods:

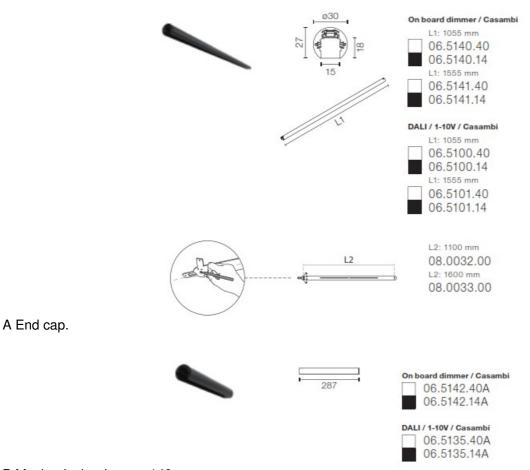
- Mechanic rod with a Ø50 or Ø140 connection rose: to fasten profiles.
- Electrical rod with a Ø50 connection rose: a supply rod for remote installation of the power supply in an accessible place.
- Electrical rod with a Ø140 connection rose: a supply rod for remote installation of the power supply through the connection rose.
- Data connection rod with a Ø50 or Ø140 connection rose: for connection to DALI or 1-10V bus signal.
- Aluminium stencil to mark the points for installing the rods available as separate item.

C Straight elements.

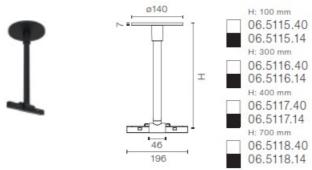


Aluminium Installation Stencil

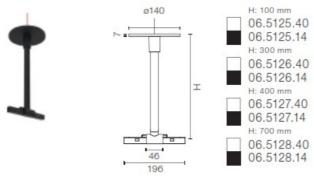
L1	L2
1055 mm	110 0 mm
1555 mm	1600 mm



B Mechanical rod rose ø140 mm. Adjustable 25 mm, to adapt it to irregular ceilings.

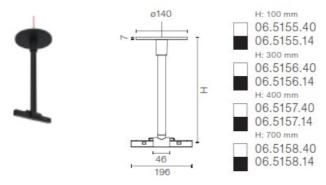


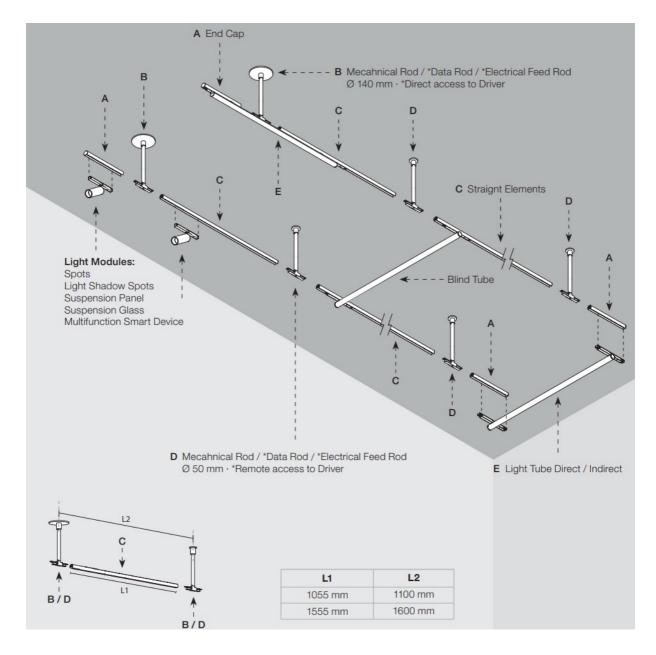
B Electrical feed rod rose ø140 mm. Adjustable 25 mm, to adapt it to irregular ceilings.



B Data connection rod rose ø140mm.

Use one for each line of the installation, for connection to DALI or 1-10V signal source. Adjustable 25 mm, to adapt it to irregular ceilings.





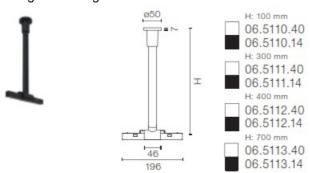
Blind tube.

A mechanical module (without lighting) to be installed in the system infrastructure. Fixing components that rotate 0°-90°, with a magnetic connection and a mechanical safety lock. To be installed transversely between two profile lines.



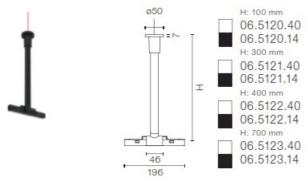
D Mechanical rod rose ø50 mm.

Adjustable 25 mm, to adapt it to irregular ceilings.



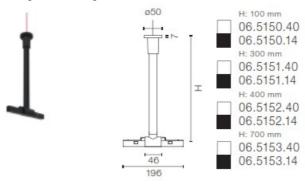
D Electrical feed rod rose ø50 mm.

Adjustable 25 mm, to adapt it to irregular ceilings.

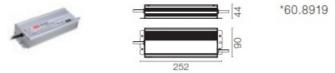


D Data connection rod rose ø50mm.

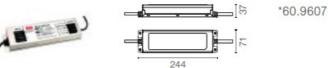
Use one for each line of the installation, for connection to DALI or 1-10V signal source. Adjustable 25 mm, to adapt it to irregular ceilings.



LED power supply source for remote installation, 48V/320W. 100/240 Vac.



LED power supply source for remote installation, 110Vac-135W / 220Vac-200W.



LED power supply source for remote installation, 48V/120W. 220/240 Vac.



Control dimming box, 1-10V, 24/48V. For remote installation.

For transforming passive systems (SINK) into active systems (SOURCE). It must be positioned between the control unit and the track. Important note: Maximum of 25 light modules.



Wireless Dimmer Bridge. From 1-10V to Casambi. For remote installation. See product specifications in the Flos Control manual. Recommended to act as a gateway from Lutron to Casambi.



Multifunction Smart Device.

Triple functionality 3×1: Casambi signal repeater, light sensor and presence detector. FLOS Control® by Casambi.

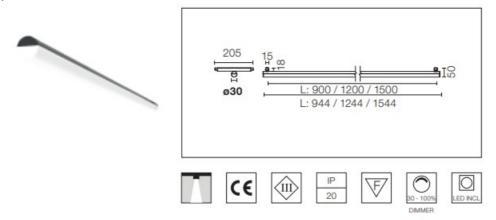


For the sizing of the installation keep a safety margn of 15% of the maximum power of the LED power source. An active control system (SOURCE) is required and the data bus must be connected directly to the profile. For passive systems (SINK), a Dimming BOX Control unit is required (located between the control unit and the profile).

LIGHT MODULES

Light Tube ø30 Direct

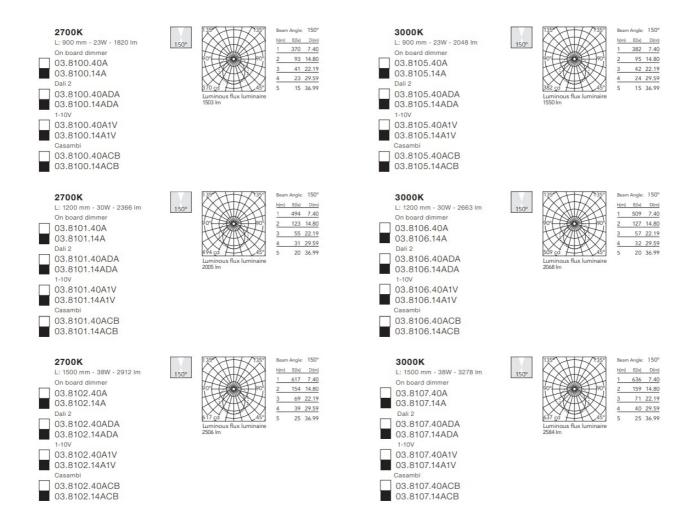
Light Source: Top LED 23W/m - 1978 lm/m - 2700K/CRI 90 / 23W/m - 2227 lm/m - 3000K/CRI 90



Diffused LED light module to be installed in The Infra-Structure.

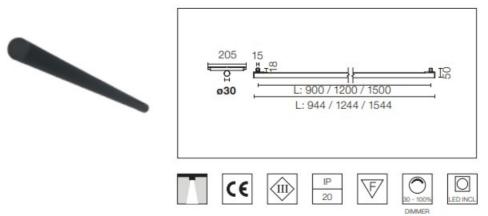
System turning fastening elements 0° - 90° with a magnetic connection and mechanic security bock for a transversally installation between two lines of the profile.

The Light Tube are only fed by one od the ends and do not communicate current through the other end. For wireless lighting control, choose Casambi versions.



Light Tube ø30 Indirect

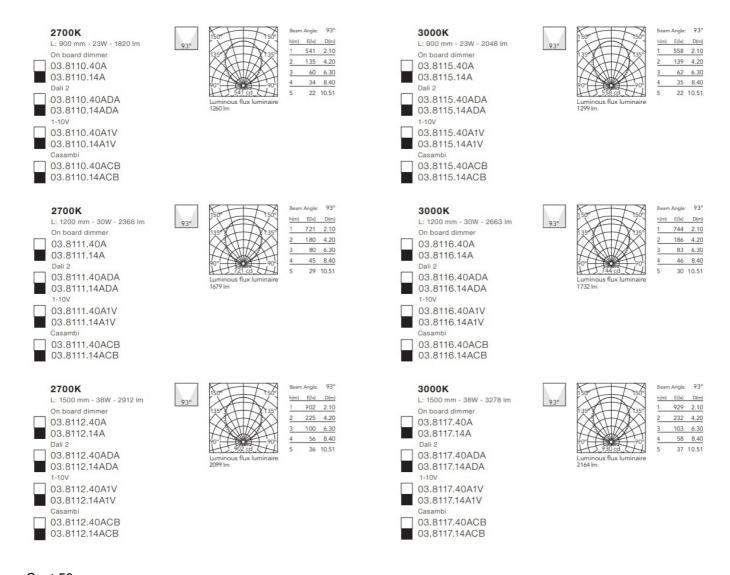
Light Source: Top LED 23W/m - 1978 lm/m - 2700K/CRI 90 / 23W/m - 2227 lm/m - 3000K/CRI 90



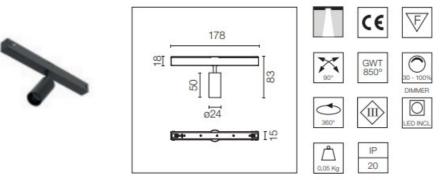
Diffused LED light module to be installed in The Infra-Structure.

System turning fastening elements 0°-90° with a magnetic connection and mechanic security bock for a transversally installation between two lines of the profile.

The Light Tube are only fed by one od the ends and do not communicate current through the other end. For wireless lighting control, choose Casambi versions.

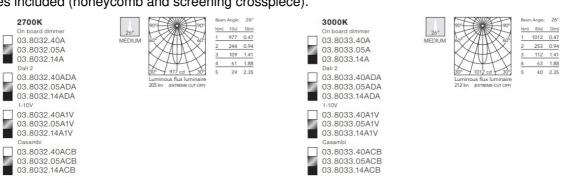


Spot 50 Light Source: Power LED 3,5W – 286 lm – 2700K/CRI 90 / 3,5W – 307 lm – 3000K/CRI 90



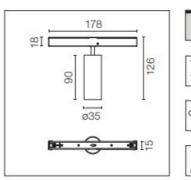
Accent lighting LED module to be installed in The Infra-Structure System. For wireless lighting control, choose Casambi versions.

Accessories included (honeycomb and screening crosspiece).



Spot 90









GWT

850°

 $\langle m \rangle$









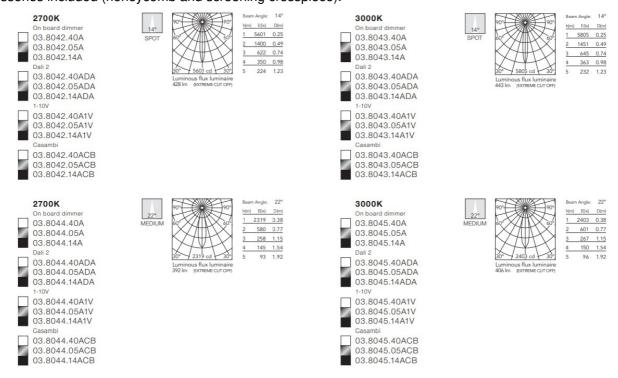




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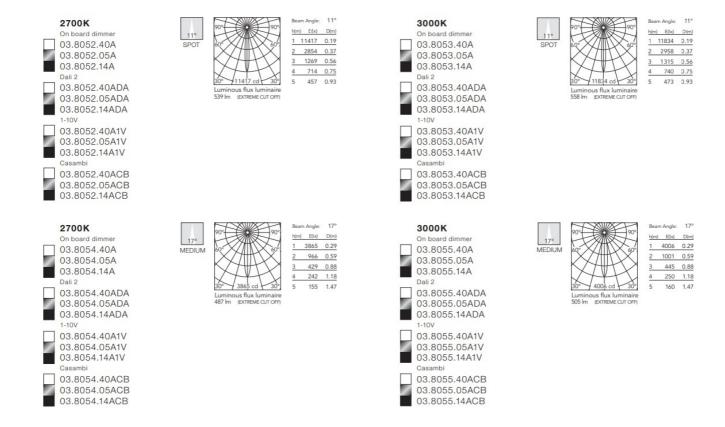
Accent lighting LED module to be installed in The Infra-Structure System. For wireless lighting control, choose Casambi versions. Accessories included (honeycomb and screening crosspiece).



Spot 120 Light Source: Power LED 12W - 724 lm - 2700K/CRI 90 / 12W - 779 lm - 3000K/CRI 90

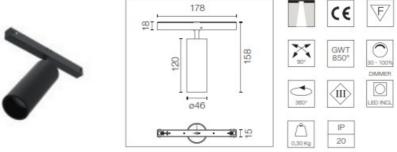


Accent lighting LED module to be installed in The Infra-Structure System. For wireless lighting control, choose Casambi versions.



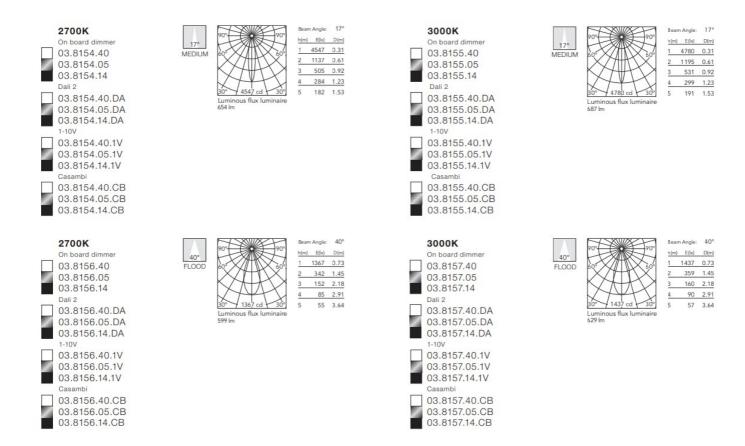
Spot 120

Light Source: LED Array 12,5W - 1075 lm - 2700K/CRI 90 / 12,5W - 1138 lm - 3000K/CRI 90



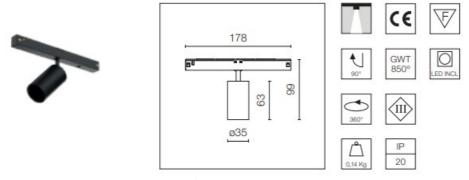
Accent lighting LED module to be installed in The Infra-Structure System. For wireless lighting control, choose Casambi versions.

Accessories included (honeycomb and screening crosspiece).



Light Shadow Spot 30

Light Source: Power LED 4,5W - 257 lm - 2700K/CRI 90 / 4,5W - 263 lm - 3000K/CRI 90



LED accent lighting module for installation in Infra-Structure system. For wireless control of luminaires, please select Casambi integrated versions. Accessories available, (honeycomb and CCT dichroic filters).

Optic Spot - 2700K 05.9000.40 05.9000.14 n(m) E(la) D(m) 1 3772 0.18 05.9000.ER 05.9000.ES 2 943 0.36 05.9000.EQ 236 0.72 05.9000.40.DA 05.9000.14.DA 05.9000.ER.DA 05.9000.ES.DA 05.9000.EQ.DA 05.9000.40.1V 05.9000.14.1V 05.9000.ER.1V 05.9000.ES.1V 05.9000.EQ.1V 05.9000.40.CB 05.9000.14.CB 05.9000.ER.CB 05.9000.ES.CB 05.9000.EQ.CB Optic Medium - 2700K 05.9001.40 05.9001.14 05.9001.ER 1 1374 0.39 344 0.78 05.9001.ES 153 1.17 05.9001.EQ

05.9001.40.DA 05.9001.14.DA 05.9001.ER.DA

05.9001.ES.DA

05.9001.EQ.DA

05.9001.40.1V

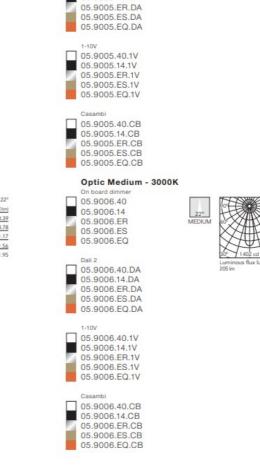
05.9001.14.1V 05.9001.ER.1V

05.9001.ES.1V

05.9001.EQ.1V

05.9001.EQ.CB

05.9001.40.CB 05.9001.14.CB 05.9001.ER.CB 05.9001.ES.CB



Optic Spot - 3000K

1(m) E(lx) D(m)

1 3862 0.18

2 966 D.36 3 429 D.54

n(m) E(la) D(m)

2 350 0.78

3 156 1.17

1402 0.39

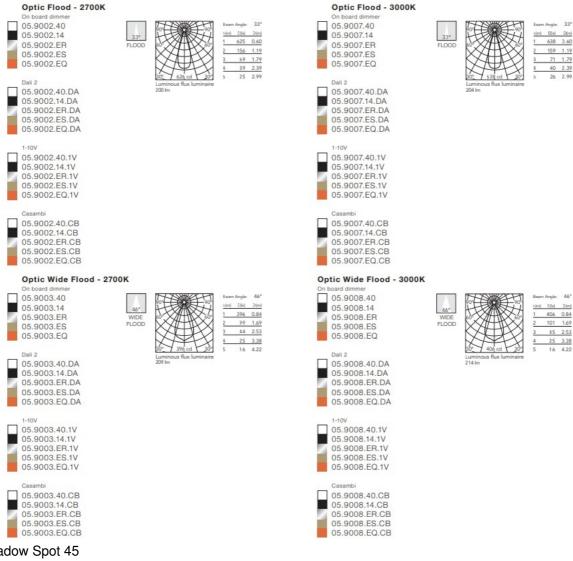
241 0.72

05.9005.40 05.9005.14

05.9005.ER 05.9005.ES

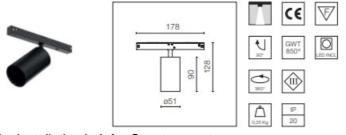
05.9005.EQ

05.9005.40.DA 05.9005.14.DA

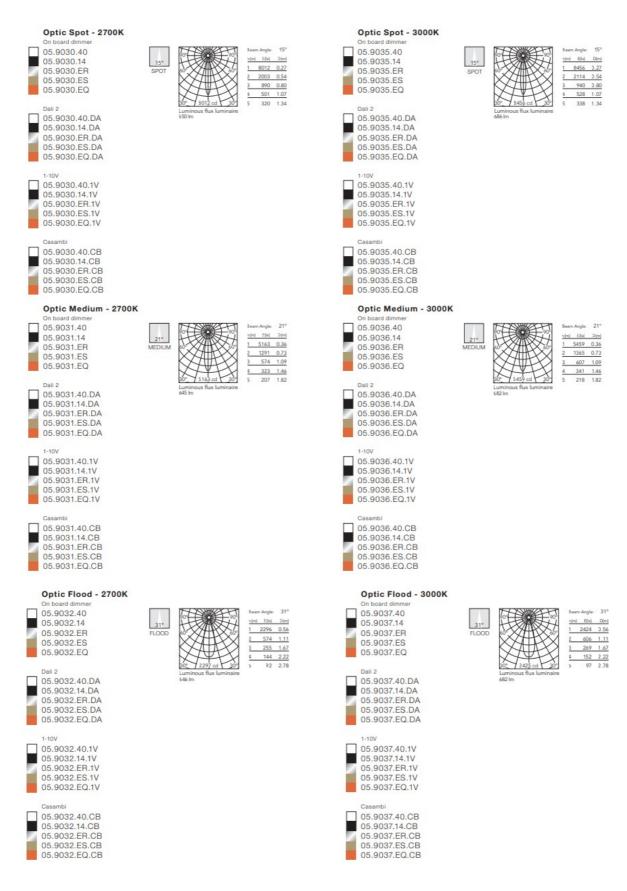


Light Shadow Spot 45

Light Source: LED Array 10W - 799 lm - 2700K/CRI 90 / 10W - 844 lm - 3000K/CRI 90



LED accent lighting module for installation in Infra-Structure system. For wireless control of luminaires, please select Casambi integrated versions. Accessories available, (honeycomb and CCT dichroic filters).

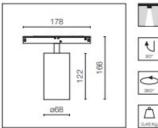


Light Shadow Spot 60

Light Source: Super Spot: LED Array 10W – 799 lm – 2700K/CRI 90 / 10W – 844 lm – 3000K/CRI 90

S/M/F/WF: LED Array 20W - 1563 lm - 2700K/CRI 90 / 20W - 1751 lm - 3000K/CRI 90

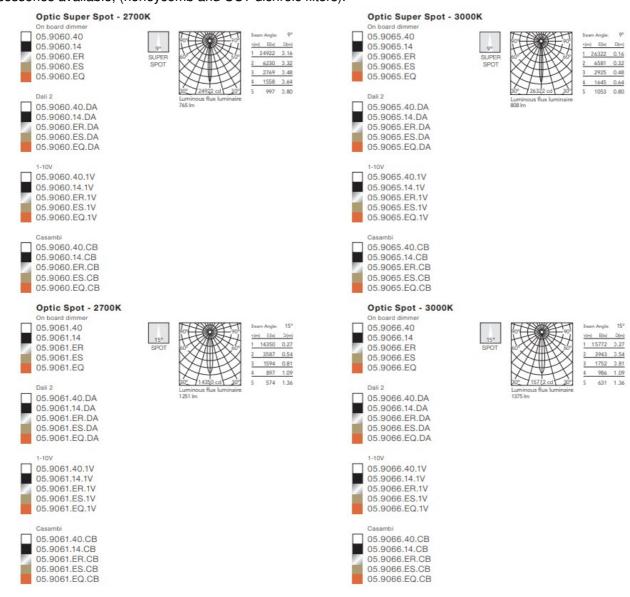




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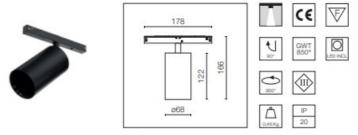
LED accent lighting module for installation in Infra-Structure system. For wireless control of luminaires, please select Casambi integrated versions. Accessories available, (honeycomb and CCT dichroic filters).





Light Shadow Spot 60

Light Source: Super Spot: LED Array $10W - 799 \text{ Im} - 2700 \text{K/CRI } 90 / 10W - 844 \text{ Im} - 3000 \text{K/CRI } 90 \text{ S/M/F/WF: LED Array } 20W - 1563 \text{ Im} - 2700 \text{K/CRI } 90 / 20W - 1751 \text{ Im} - 3000 \text{$



LED accent lighting module for installation in Infra-Structure system. For wireless control of luminaires, please select Casambi integrated versions. Accessories available, (honeycomb and CCT dichroic filters).

Optic Wide Flood - 2700K Optic Wide Flood - 3000K 05.9064.40 05.9069.40 t(m) E(lx) D(m) h(m) E(lx) D(m) 05.9069.14 05.9064.14 43° 2761 0.79 1 3026 0.79 05.9064.ER 05.9069.ER 690 1.59 757 1.59 05.9064.ES 05.9069.ES 307 2.38 173 3.17 336 2.38 05.9064.EQ 05.9069.EQ 189 3.17 Dali 2 Dali 2 05.9064.40.DA 05.9069.40.DA 05.9064.14.DA 05.9064.ER.DA 05.9069.14.DA 05.9069.ER.DA 05.9064.ES.DA 05.9069.ES.DA 05.9064.EQ.DA 05.9069.EQ.DA 1-10V 1-10V 05.9064.40.1V 05.9069.40.1V 05.9064.14.1V 05.9064.ER.1V 05.9069.14.1V 05.9069.ER.1V 05.9064.ES.1V 05.9069.ES.1V 05.9064.EQ.1V 05.9069.EQ.1V Casambi Casambi 05.9064.40.CB 05.9069.40.CB 05.9064.14.CB 05.9069.14.CB 05.9064.ER.CB 05.9069.ER.CB 05.9064.ES.CB 05.9069.ES.CB 05.9064.EQ.CB 05.9069.EQ.CB

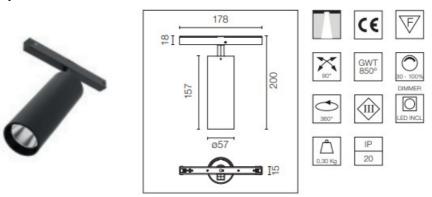
Accessoires / Accessories

Light Shadow Spot 30		
Honeycomb	08.0790.00	
Dichroic CCT Filter	Increase 2700K >> 3125±75K 3000K >> 3600±75K 08.0791.00 Decrease 2700K >> 2450±75K 3000K >> 2700±75K 08.0792.00	
Light Shadow Spot 45		
Honeycomb	08.0793.00	
Dichroic CCT Filter	Increase 2700K >> 3125±75K 3000K >> 3600±75K 08.0794.00 Decrease 2700K >> 2450±75K 3000K >> 2700±75K 08.0795.00	
Light Shadow Spot 60		

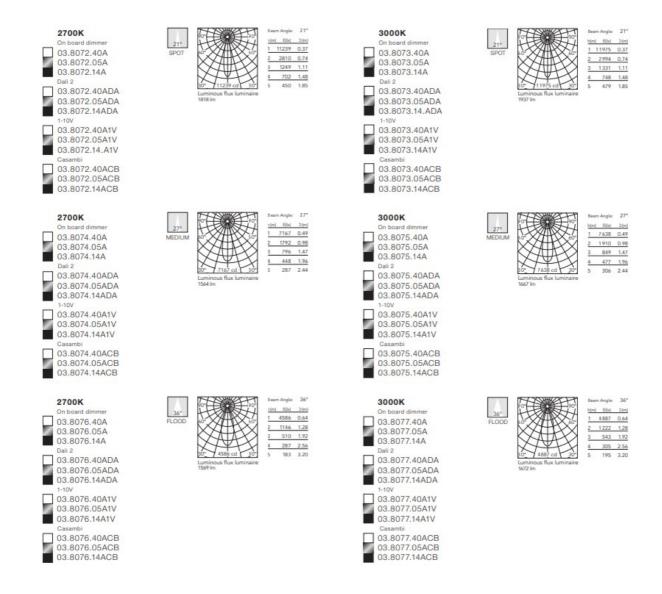
Honeycomb	Super Spot 08.0175.14 Spot / Medium / Flood / Wide Flo od 08.0176 .14
Dichroic CCT Filter	Increase Super Spot 2700K >> 3125±75K 3000K >> 3600±75K 08.0796.00 Spot / Medium / Flood / Wide Flo od 2700K >> 3125±75K 3000K >> 3600±75K 08.0798.00 Decrease Super Spot 2700K >> 2450±75K 3000K >> 2700±75K 08.0797.00 Spot / Medium / Flood / Wide Flo od 2700K >> 2450±75K 3000K >> 2700±75K 08.0797.00

Spot 150

... Light Source: LED Array 22,5W - 2411 lm - 2700K/CRI 90 / 22,5W - 2569 lm - 3000K/CRI 90



Accent lighting LED module to be installed in The Infra-Structure System. For wireless lighting control, choose Casambi versions.

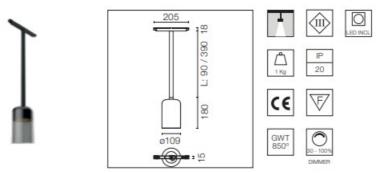


Accessoires / Accessories Spot 150

Screening crosspiece, lenses and honeycomb directly installable on the head of the luminaire without needing any fastening accessory.

Installation compatible with honeycomb + lense at the same time.

Flood lens.	-	08.8429.00
Screening crosspiece.		08.8431.00
Elliptical lens.		08.8432.00
Honeycomb.		08.8428.00
Snoot shielding cone.	9 8	08.0526.00 08.0526.40 08.0526.BW



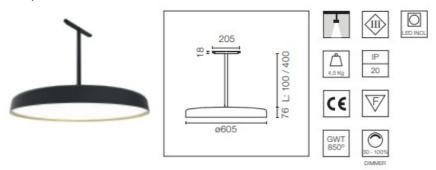
Suspended luminaire with rigid rodand blown glass in several finisheto be installed in the Infra-Structusystem. For wireless lighting control, chooCasambi versions.





Suspension Panel 600

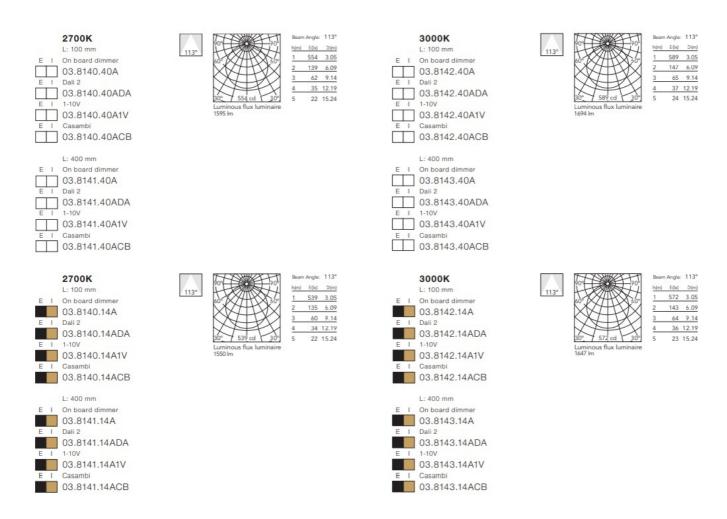
Light Source: Top LED 25,6W - 3332 lm - 2700K/CRI 90 / 40W - 3540 lm - 3000K/ CRI 90



Suspended luminaire with rigid rod, to be installed in the Infra-Structure system. For wireless lighting control, choose Casambi versions.

E= External Finish

I= Internal Finish



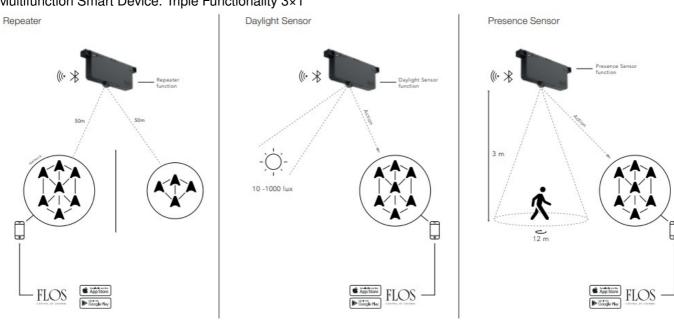
ACCESSORY MODULES

Multifunction Smart Device.

Triple functionality 3×1: Casambi signal repeater, light sensor and presence detector. FLOS Control® by Casambi.

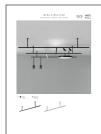


Multifunction Smart Device. Triple Functionality 3×1





Documents / Resources



FLOS 14 Noir Infra Structure [pdf] Instructions
14 Noir Infra Structure, 14, Noir Infra Structure, Infra Structure, Structure

References

• User Manual

Manuals+, Privacy Policy

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