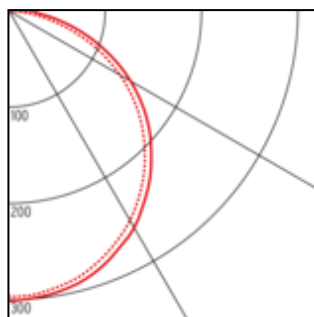
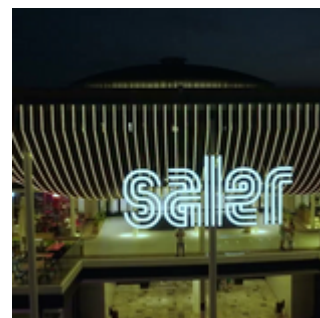
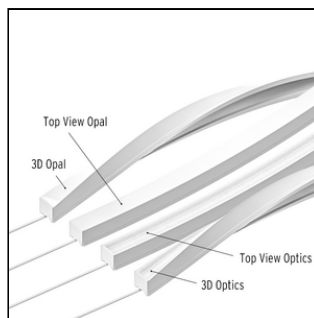


VENUS True Color TV Opal IP67

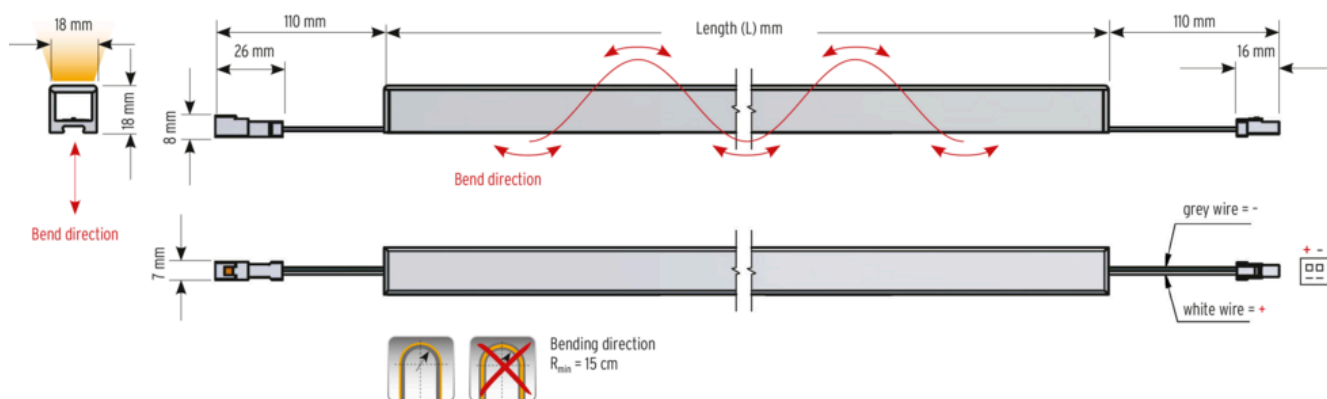
Order code: VENUS TC TV 15 W940 1054 OL MOCLL IP67

TECHNICAL SPECIFICATIONS

Length	1,054 mm
Color temperature (CCT)	4000 K
CRI	up to 96
R9	up to 90
Lumen (Luminaire)	1050 lm
Lumen/Meter	990 lm/m
Power of luminaire	15.8 W
Power	15 W/m
Efficiency	66 lm/W
Optics	Opal
Case Temperature (T _{cmin} & T _{cmax})	T _{cmin} = -25°C, T _{cmax} = 65°C
Storage Temperature (T _{smin} & T _{smax})	T _{smin} = -30°C, T _{smax} = 85°C
Ambient Temperature (T _{amin} & T _{amax})	T _{amin} = -25°C, T _{amax} = 40°C
Ingress protection	IP67



DIMENSIONS & AVAILABLE LENGTHS



Fixture build to length (not field cuttable): $L = (N \times 70 \text{ mm}) + 4 \text{ mm}$; $N = 5 \dots 56$; $L_{\min} = 354 \text{ mm}$; $L_{\max} = 3,924 \text{ mm}$

VENUS True Color TV Opal IP67

Order code: VENUS TC TV 15 W940 1054 OL MOCLL IP67

TECHNICAL SPECIFICATIONS

Certifications



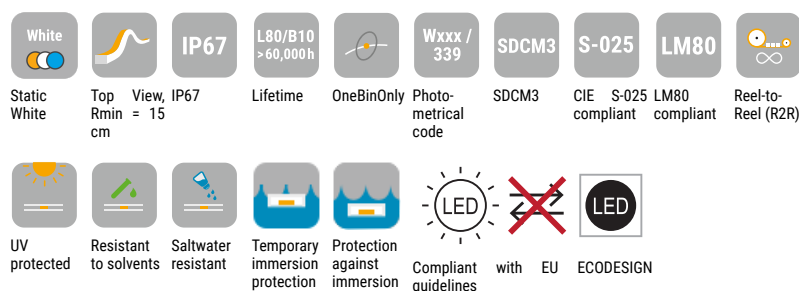
Family Key Features



Awards



Technical Data/Performance



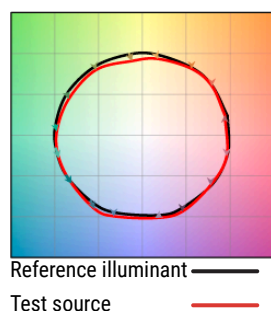
SPECIFICATION TEXT

IP67 flexible dot free and perfectly homogeneous linear LED light line with a 18 mm x 18 mm (W x H) cross section. Opal polyurethane encapsulation offering a premium water proof sealing, UV resistance, chemical stability against urban gazes and protection against abrasion. True Color technology for an optimal rendition of the LED spectrum (minimal color shift). Vertical bending only, with radius of 150 mm the ideal solution for indoor/outdoor organic facade accent lighting or decorative applications requiring IP67 ingress. Freely configurable in length. Backside cable feed for an optimal fixture to fixture overlap. 110 mm long cable at both end of the luminaire with IP67 male/female connectors or open-ended cable(s) (length of 2 m), with included mounting accessory of choice. Light source assembled using state of the art automated Reel to Reel (R2R) production process supporting LED Linear™ Tj Away® thin flexible circuit board technology.

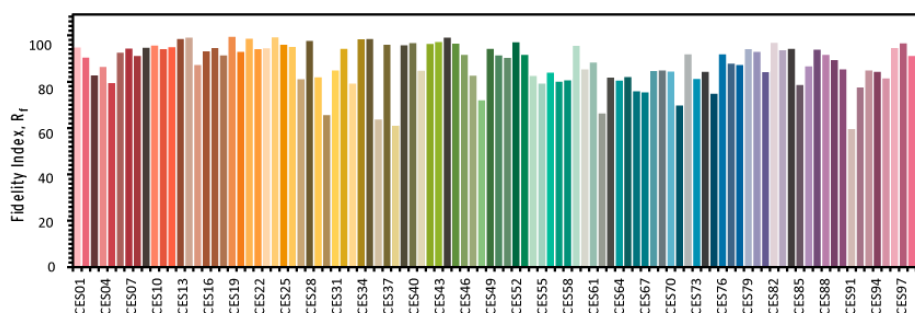
In combination with Chip Scale Package LEDs (CSP) an optimized thermal resistivity is achieved for an optimal heat dissipation (junction to profile), which guarantees an outstanding lifetime of > 60,000 hrs (L80/B10). Embeds high quality LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only) with an extended photometric code of Wxxx/339 ensuring an exceptional color consistency over the rated lifetime. Premium color rendition with a minimum CRI above 90 and CRI up to 95 (R9 up to 85) and TM-30-15 up to $R_f = 92 / R_g = 100$ ensuring a remarkable light quality. Consistent light intensity all along the luminaire length is obtained thanks to active current regulation operated by dedicated integrated circuits (ICs) on each step. Protected against electrostatic discharge +/- 2,000 V and polarity miswiring. Fully PWM dimmable for frequency > 0Hz up to 2 kHz (flicker free for frequency higher than 1.2 kHz according to IEEE P1789 standard). Engineered and produced in Germany.

TM30-15

Color vector



Color evaluation

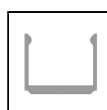
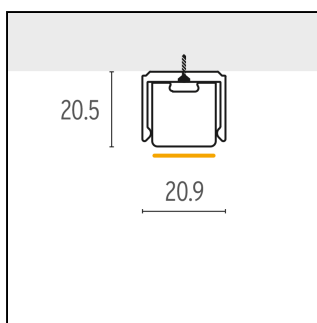


VENUS True Color TV Opal IP67

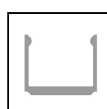
Order code: VENUS TC TV 15 W940 1054 OL MOCLL IP67

MOUNTING ACCESSORIES

1. Surface-mounted, Clips and profile without cable channel



VTC Surface Mounting Clip Low
 (L x H x W) 30 mm x 17.5 mm x 20.9 mm
 Digits in order code: CLL



VTC Surface Mounting Profile Low
 (L x H x W) luminaire length x 17.5 mm x 20.9 mm
 Digits in order code: MPL

Description

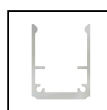
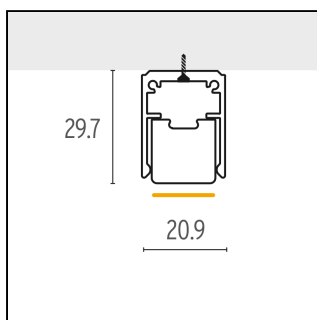
Robust aluminum extrusion powder-coated in white. Use according to the mounting instruction.

Robust aluminum extrusion powder-coated in white. Use according to the mounting instruction.

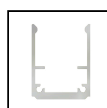
Example of application



2. Surface-mounted, Clips and profile with cable channel



VTC Surface Mounting Clip High
 (L x H x W) 30 mm x 26.7 mm x 20.9 mm
 Digits in order code: CLH



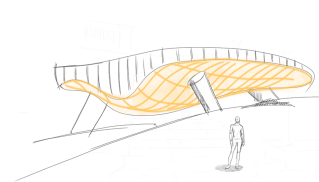
VTC Surface Mounting Profile High
 (L x H x W) luminaire length x 26.7 mm x 20.9 mm
 Digits in order code: MPH

Description

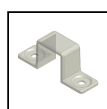
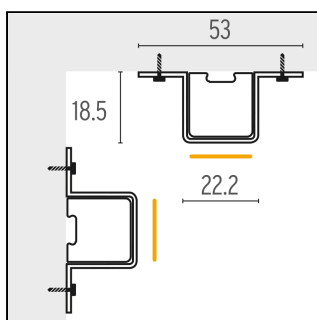
Robust aluminum extrusion powder-coated in white. Use according to the mounting instruction.

Robust aluminum extrusion powder-coated in white. Use according to the mounting instruction.

Example of application



3. Surface-mounted, holding clamp clear

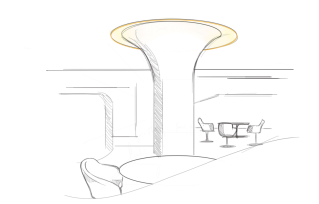


VTC Surface Holding Clamp Clear
 (L x H x W) 15 mm x 20.5 mm x 53 mm
 Digits in order code: CLC

Description

PVC casting clamp for surface mount. Use according to the mounting instruction.

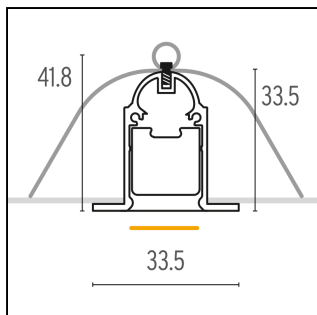
Example of application



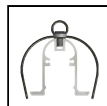
VENUS True Color TV Opal IP67

Order code: VENUS TC TV 15 W940 1054 OL MOCLL IP67

4. Recessed



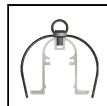
Mounting accessories



VTC Recessed Profile
(2 m Set)
(L x H x W) 2000 mm
x 46 mm x 36,3 mm
Art.-#: 10000559

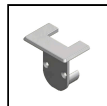
Description

Profile with mounting springs can be installed directly into false ceiling. Use according to the mounting instruction.



VTC Recessed Profile
(4 m Set)
(L x H x W) 4000 mm
x 46 mm x 36,3 mm
Art.-#: 10000559-4m

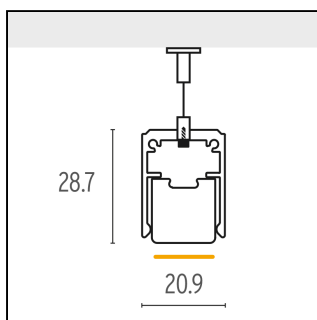
Profile with mounting springs can be installed directly into false ceiling. Use according to the mounting instruction.



VTC EndCap
Recessed (Set of 2)
(L x H x W) 22 mm x
34.5 mm x 36.3 mm
Art.-#: 11000214

Set of two end caps for recessed VENUS TC light lines. Use according to the mounting instruction.

5. Pendant



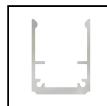
Mounting accessories



VTC Pendant Set –
2m
for Flexible Pendant
Profile (2 m Wire)
Art.-#: 13000273

Description

2 m pendant set for VENUS TC.
Required accessories VTC flexible
pendant channel #10000554



VTC Flexible Pendant
Channel
(L x H x W) 2000 mm
x 26.7 mm x 20.9 mm
Art.-#: 10000554

Flexible pendant channel for
decorative pendant light solutions.
Required suspensions 13000273
(2m)/ 13000274 (5m)



VTC Pendant Set –
5m
for Flexible Pendant
Profile (5 m Wire)
Art.-#: 13000274

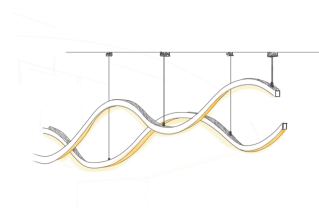
5 m pendant set for VENUS TC.
Required accessories VTC flexible
pendant channel #10000554.



VarioCANOPY Square
Mounting set
(optional) for pendant
ceiling installations
on concrete ceilings
Art.-#: 16000347

Pendant set with screws for
installations directly on the ceiling.
Recommended to use every 1 m.

Example of application



VENUS True Color TV Opal IP67

Order code: VENUS TC TV 15 W940 1054 OL MOCLL IP67

POWER SUPPLY UNIT (PSU) & CONTROLS

Recommended PSU

VarioPSU 24V/40W IP67, 0-10V, Black
Art.-#: 16000152



Dimensions (L x H x W):	150 mm x 35 mm x 53 mm
Electrical Class:	SK II
LED Drive:	CV
Voltage (V):	24 V
Rated Power (W):	40
Input Voltage (Vac):	90 – 305
Region:	WR
Certificates:	ENEC, UL
Schutzart:	IP67
Indoor/Outdoor:	Outdoor

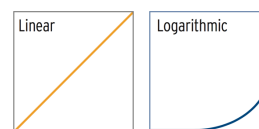
Recommended Control

IN.finite™ DALI® DT6 2CH CV ULT
Art.-#: 16000268-DT6-ULT



Dimensions (L x H x W):	188 mm x 21 mm x 30 mm
Channels:	2
Dimming Options:	DALI
Dimming:	PWM (f ~ 200 Hz)
Dimming Curve:	Logarithmic
Dimming Range:	100% – 0%
Voltage (V):	12 – 50 V
Certificates:	CE
Schutzart:	IP20
Indoor/Outdoor:	Indoor

Dimming



VENUS True Color TV Opal IP67

Order code: VENUS TC TV 15 W940 1054 OL MOCCL IP67

VOLTAGE DROP INFORMATION FOR THE FEED-IN LINE (PSU / CONTROL TO FIXTURE)

Single

Power (Fixture)	15.8 W						
Cable cross section	0.25 mm ²	0.34 mm ²	0.5 mm ²	0.75 mm ²	1 mm ²	1.5 mm ²	2.5 mm ²
AWG (US)	23	22	20	18	17	15	13
Max feed-in length	9 m	12.3 m	18.1 m	27.1 m	36.1 m	54.2 m	90.3 m

Multiple

Fixture length	1.1 m						
Maximal run length at this power level*	5.0 m						
Feed-in cable cross section level	0.25 mm ²	0.34 mm ²	0.5 mm ²	0.75 mm ²	1 mm ²	1.5 mm ²	2.5 mm ²
AWG (US)	23	22	20	18	17	15	13
Max feed-in length	1.9 m	2.6 m	3.8 m	5.7 m	7.6 m	11.4 m	19.1 m

Calculation refers to the cable configuration on site.

The information listed in the table is only refers to the conductor-based voltage drop of max. 0.85V at 24V DC input voltage.

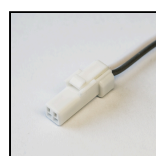
Regarding the electromagnetic compatibility (EMC) the maximum cable length is defined by the power supply manufacturer.

A cable length between power supply and planned product longer than indicated by the datasheet of the power supply is possible. However the electromagnetic compatibility can then be influenced by the conditions of the installation site. There is no data on electromagnetic compatibility for longer cable lengths, which might lead to the necessity of an evaluation of the electromagnetic compatibility by a third party.

Datasheets and mounting instructions of the components in combination with the planned product must be carefully read and followed.

* The remaining 3.9 m admissible to reach the maximal run length with one feed-in can be completed by configuring VENUS True Color TV Opal IP67 with the same LED Tape in other lengths.

CABLING ACCESSORIES



VarioCon Female Mini 2 x 0.34 mm² 0.2 m IP67

Art.-#: **15000141**

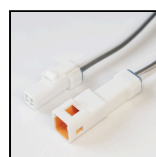
Required quantity: -



VarioCon Female Mini 2 x 0.34 mm² 2 m IP67

Art.-#: **15000142**

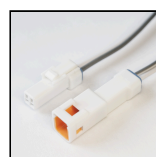
Required quantity: -



VarioCon Extension Mini 2 x 0.34 mm² 0.1 m IP67

Art.-#: **15000143**

Required quantity: -



VarioCon Extension Mini 2 x 0.34 mm² 2 m IP67

Art.-#: **15000144**

Required quantity: -

WIRING DIAGRAM

Typical Wiring – Monochromatic

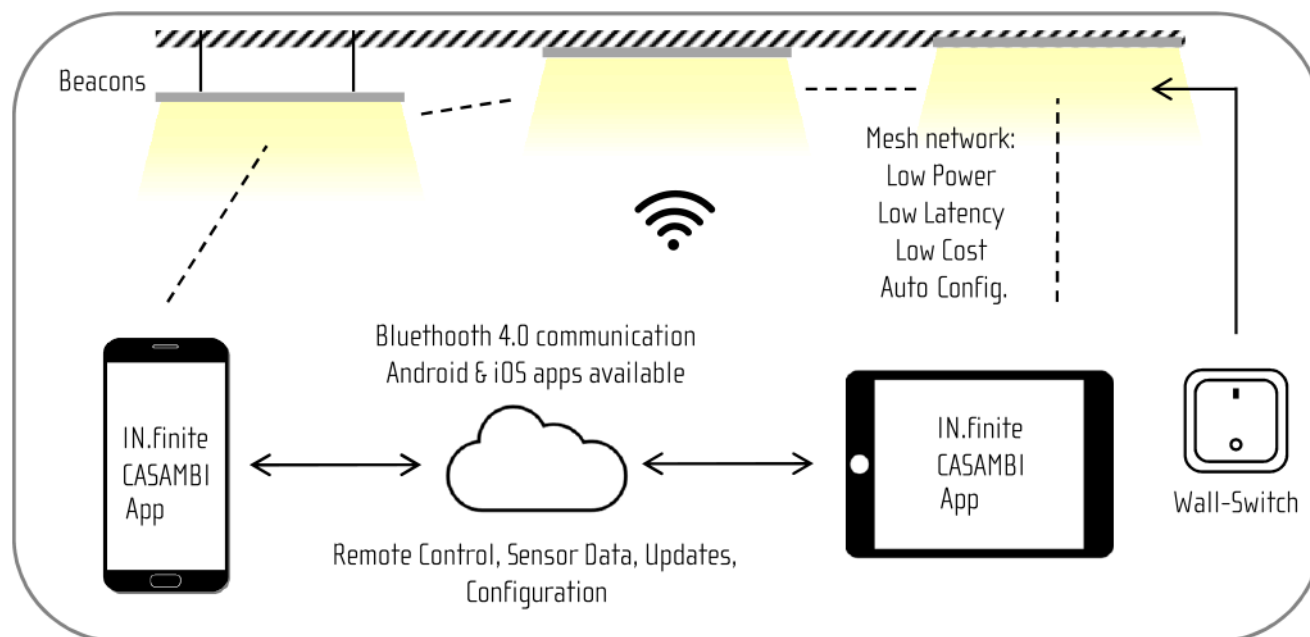
* Detailed information on the wiring of the control line is shown in the datasheet of the desired control gear

VENUS True Color TV Opal IP67

Order code: VENUS TC TV 15 W940 1054 OL MOCLL IP67

TYPES OF ANALOG & DIGITAL CONTROL

DMX	DALI	CASAMBI BLE	DMX/RDM	1-10V	Switch-DIM
Digital control system which is particularly suitable for RGB and IQ White applications. With this system it is possible to dim luminaires and to set soft color gradients just in the range RGB.	Digital control system which is suitable especially for White and IQ White applications. With this system it is possible to dim the luminaires and to adjust soft gradients in the range White and IQ White.	Digital control system based on Bluetooth LE which is particularly suitable for applications in which a smart remote control is required. With this system it is possible to dim luminaires and to adjust soft gradients in the range White, IQ-White and RGB.	Digital control system which is particularly suitable for RGB and IQ White applications. With this system it is possible to dim luminaires and to set soft color gradients just in the range RGB.	Analog control system which is suitable for White applications. With this system it is possible to dim luminaires with a potentiometer via a control voltage (SELV).	Analog control system which is suitable for White applications. With this system it is possible to dim luminaires using commercially available switches on the mains voltage.



Quick start guide wireless Communication

Casambi Technologies' wireless lighting control solution is not just a lighting control system - Casambi is a technology based on Bluetooth Low Energy, Casambi has developed an own proprietary mesh network where all the intelligence of the system is replicated in every node and in such a way creates a system with no points of failure. The solution is selfhealing and self-organizing. In this kind of fully distributed and symmetric architecture any IN.finite Casambi unit can go offline and catch up from others when they return back online.