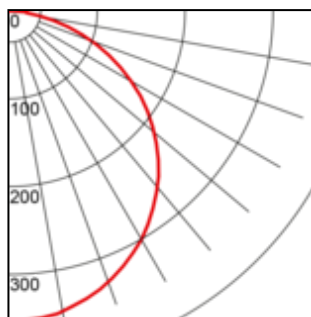
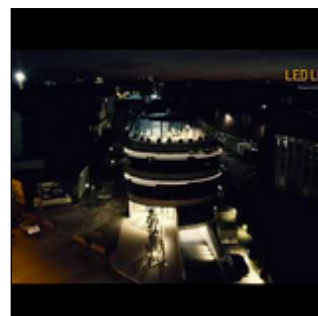
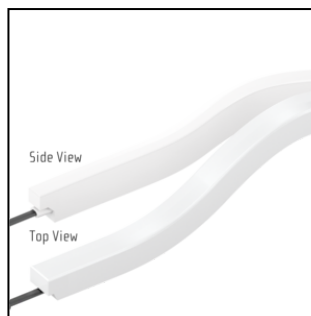


VENUS White Top View IP67

Order code: VENUS TV HE05 W830 1026 DCCLL IP67

TECHNICAL SPECIFICATIONS

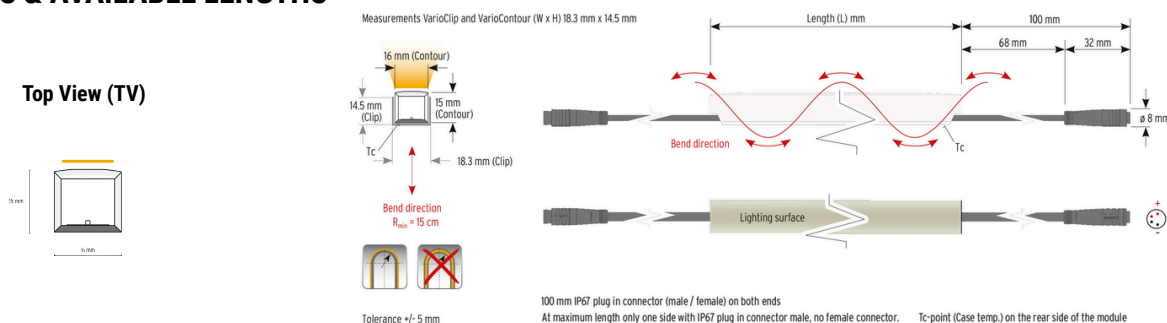
Length	1,026 mm
Color temperature (CCT)	3.000K
CRI	81
R9	3
R _f	82
R _g	96
Lumen (Luminaire)	300 lm
Lumen/Meter ^A	290 lm/m
Power of luminaire	5.3 W
Power ^A	5 W/m
Efficiency ^A	56
Case Temperature (T _{cmin} & T _{cmax}) ^B	T _{cmin} = -25°C, T _{cmax} = 70°C
Storage Temperature (T _{smin} & T _{smax})	T _{smin} = -30°C, T _{smax} = 85°C
Ambient Temperature (T _{amin} & T _{amax})	T _{amin} = -25°C, T _{amax} = 50°C
Ingress protection	IP67



^AThe given data are typical values. Due to tolerances of the production process and the electrical components, photometric values and electrical power can vary up to 10%.

^BThe Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

DIMENSIONS & AVAILABLE LENGTHS



Fixture build to length (not field cuttable): $L = (N \times 62.5 \text{ mm}) + 26 \text{ mm}$; $N = 3 \dots 80$; $L_{\min} = 213.5 \text{ mm}$; $N_{\max} = 80$; $L_{\max} = 5,026 \text{ mm}$

VENUS White Top View IP67

Order code: VENUS TV HE05 W830 1026 DCCLL IP67

TECHNICAL SPECIFICATIONS

Certifications



Family Key Features

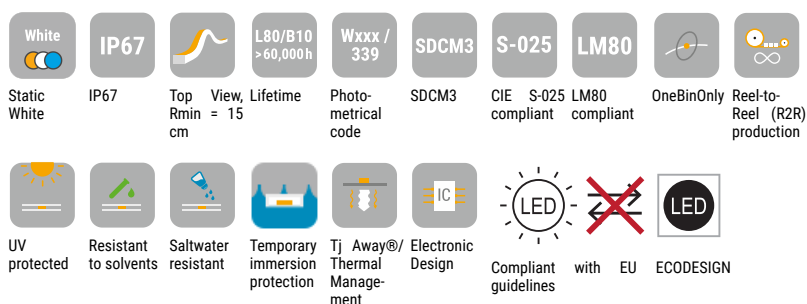


Surface-mounted /
Ceiling

Awards



Technical Data/Performance



SPECIFICATION TEXT

IP67 flexible dot free linear LED light line with a 16 mm x 15 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. Vertical bending only, with radius of 150 mm excellent solution for indoor/outdoor organic facade accent lighting or decorative applications requiring IP67 ingress. Freely configurable in length. 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.

Highly modern LED packages lead to an optimal heat dissipation (junction to installation surface), which guarantees an outstanding lifetime of > 60.000 hrs (L80/B10). Embedded 2835 LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only) with an extended photometric code of Wxxx/338 ensuring an exceptional color consistency over the rated lifetime. Good color rendition with a CRI above 80 (R9 > 0) and TM-30-15 in the range of Rf = 83 / Rg = 98 ensuring a suitable 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. This leads to a constant luminous flux per step for the length specified in the data sheet (see graph luminous flux degradation in datasheet). All mounted components are precisely qualified regarding their thermal and mechanical performance in the application. Protected against electrostatic discharge +/- 8,000 V, temporary electrical overstress and polarity miswiring. Fully PWM dimmable from 100 % to 0 % for frequencies from 0 Hz up to 2 kHz (flicker free for frequencies higher than 1.2 kHz according to IEEE P1789 standard). Engineered and manufactured in Germany.

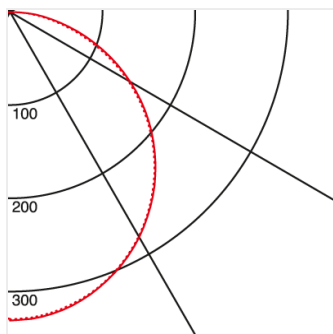
VENUS White Top View IP67

Order code: VENUS TV HE05 W830 1026 DCCLL IP67

OPTICAL INFORMATION

Light distribution

CRI



TM30-15

This chart displays the average Fidelity Index for all samples within the hue bin. The number of samples per bin, which can vary based on the CCT used for the calculation, is shown at the top. The color of the bar is based on the average chromaticity under the 5000 K reference illuminant; the colors may not display accurately depending on the calibration of the monitor, and should be used for orientation only.

STABILITY OF LUMINOUS FLUX

The data is valid for $T_a = 25^\circ\text{C}$ and an input voltage of 24 V DC.

The graphic below shows the expected typical change in luminous flux in %, while having one sided power supply, between the first and last step of the named LED tape length.

To ensure the highest possible quality of the installation, LED Linear™ recommend to limit the maximum LED tape length, based on the individual tape power, to the maximum length, showed in the graph.

Hereby it will be ensured, that the typical maximum reduction will remain below 10% on the displayed LED tape length.

MOUNTING

VENUS White Top View IP67

Order code: VENUS TV HE05 W830 1026 DCCLL IP67

POWER SUPPLY UNIT (PSU) & CONTROLS

Recommended PSU

Item.	Description	Part number	Unit	Min. OQ5.318784
 VarioPSU 24V/100W IP67, ON/OFF, Silver	LED driver from Mean Well with 24 V constant voltage and a maximum output power of 100 W. Type of protection IP67, class I power unit with an input voltage range of 90 – 305 V AC. Dimensions (L x W x H): 220 mm x 68 mm x 38.8 mm. Not dimmable. Product on secondary side dimmable with IN.finite controller range.	16000064	piece (pc)	5
 VarioPSU 24V/90W IP67, 0-10V, Black	LED driver from Mean Well with 24 V constant voltage and a maximum output power of 90 W. Type of protection IP67, class II power unit with an input voltage range of 90 – 305 V AC. Dimensions (L x W x H): 171 mm x 63 mm x 37.5 mm. Dimmable with 0 – 10 V. This device can be dimmed by using a potentiometer between the DIM- and DIM+ connections.	16000154	piece (pc)	5
 VarioPSU 24V/90W IP67, DALI, Black	LED driver from Mean Well with 24 V constant voltage and a maximum output power of 90 W. Type of protection IP67, class II power unit with an input voltage range of 90 – 305 V AC. Dimensions (L x W x H): 171 mm x 63 mm x 37.5 mm. Dimmable with DALI.	16000348	piece (pc)	5

Recommended Control

Item	Description	Part number	Unit	Min. OQ
 IN.finite™ DALI® DT6 2CH CV ULT	2-Kanal-Steuergerät, DALI® DT6-Protokoll, Eingang für 1 – 10 V-Schnittstellen, Eingangsspannung 12 V – 48 V, I _{out} max. 2 x 4 A, L x H x B – 188 mm x 21 mm x 30 mm. Optimiert zur Dimmung von ULTIMA-S mit Magnetbefestigung.	16000268-DT6-ULT	piece (pc)	10

VENUS White Top View IP67

Order code: VENUS TV HE05 W830 1026 DCCLL IP67

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

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.

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

0.34 mm² / AWG 22

VENUS White Top View IP67	HE 05	HE 10	HE 15
Product run Length	max. cable length between PSU / Control unit and the luminaire		
1 m	38.8 m	19.4 m	12.9 m
2 m	19.4 m	9.7 m	6.4 m
3 m	12.9 m	6.4 m	4.3 m
4 m	9.7 m	4.8 m	3.2 m
5 m	7.7 m	3.8 m	2.5 m
6 m	6.4 m	3.2 m	2.1 m
7 m	5.5 m	2.7 m	-

1.5 mm² / AWG 15

VENUS White Top View IP67	HE 05	HE 10	HE 15
Product run Length	max. cable length between PSU / Control unit and the luminaire		
1 m	171.3 m	85.6 m	57.1 m
2 m	85.6 m	42.8 m	28.5 m
3 m	57.1 m	28.5 m	19 m
4 m	42.8 m	21.4 m	14.2 m
5 m	34.2 m	17.1 m	11.4 m
6 m	28.5 m	14.2 m	9.5 m
7 m	24.4 m	12.2 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.

VENUS White Top View IP67

Order code: VENUS TV HE05 W830 1026 DCCLL IP67

CABLING ACCESSORIES



VarioCon Female Mono 2 x 0.34 mm² 0.115 m IP67

Art.-#: **15000071**

Required quantity: -



VarioCon Female Mono 2 x 0.34 mm² 1 m IP67

Art.-#: **15000090**

Required quantity: -



VarioCon Female Mono 2 x 0.34 mm² 2 m IP67

Art.-#: **15000091**

Required quantity: -



VarioCon Female Mono 2 x 0.34 mm² 5 m IP67

Art.-#: **15000092**

Required quantity: -



VarioCon Female Mono 90° 2 x 0.34 mm² 2 m IP67

Art.-#: **15000089**

Required quantity: -



VarioCon Extension 4 x 0.25 mm² 2 m IP67

Art.-#: **15000102**

Required quantity: -



VarioCon Extension 4 x 0.25 mm² 5 m IP67

Art.-#: **15000103**

Required quantity: -



VarioCon Protection Plug 8mm snap, black

Art.-#: **15000115**

Required quantity: -

WIRING DIAGRAM

Typical Wiring – Monochromatic

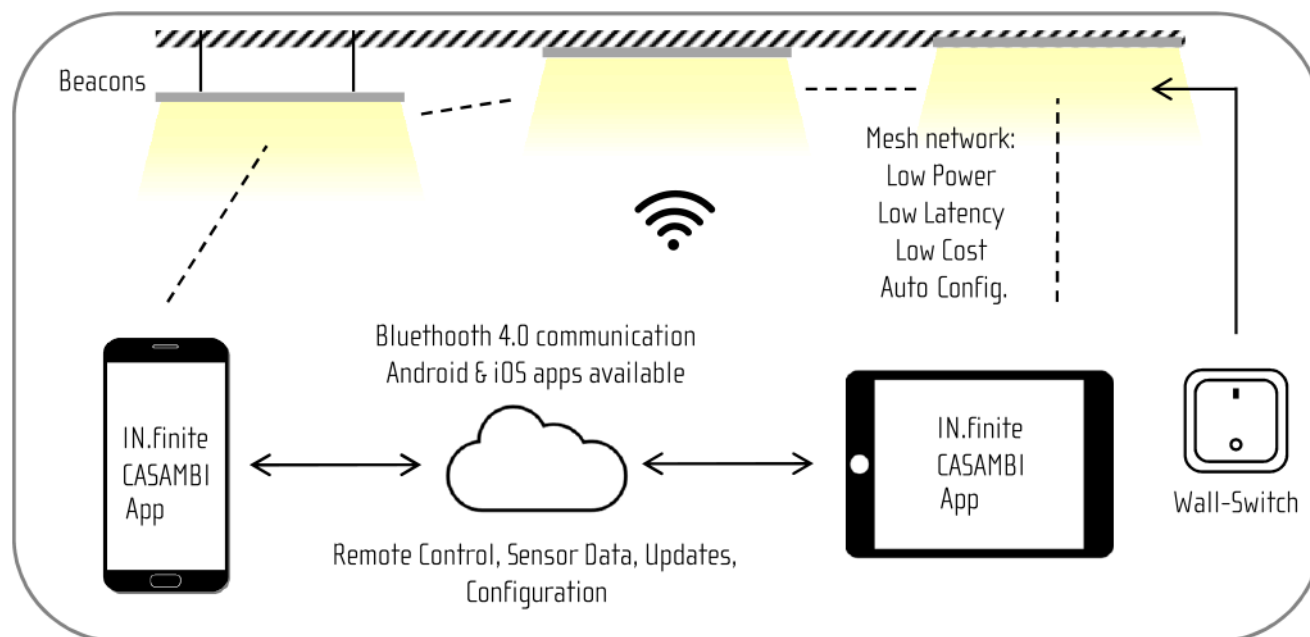
* Detailed information on the wiring of the control line is shown in the datasheet of the desired control gear

VENUS White Top View IP67

Order code: VENUS TV HE05 W830 1026 DCCLL 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.