

VENUS True Color TV Optics IP67 – DarkSky

Area: **Outdoor Luminaires**

Category: **Flexible Light Lines**

Mounting: **Surface-mounted, Clips and profile without cable channel / Surface-mounted, Clips and profile with cable channel / Surface-mounted, holding clamp clear / Recessed / Pendant**

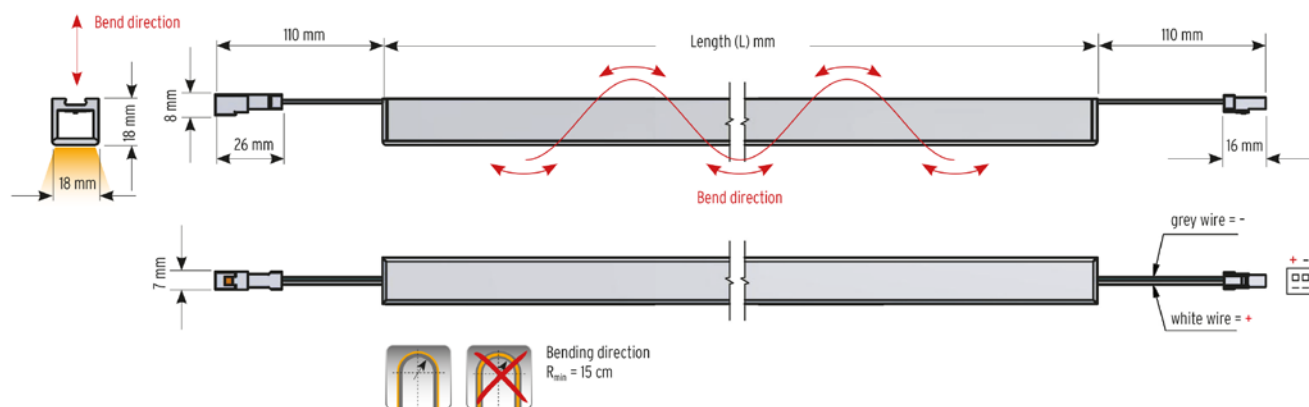


VENUS True Color family specializes in celebrating organic, fluid, and unique architecture – effortlessly flowing with outdoor designs while highlighting their stylized shapes. Its stellar flexibility and overall versatility allow it to function as impressive facade lighting, orientation lighting, or accent lighting for a variety of structures.

- Available in 2D (Top View) or 3D, VENUS True Color provides an absolute freedom of design even in complex organic and architectural concepts. Its elaborate design enables sophisticated bent forms without compromising light quality and homogeneity.
- With its unique linear lens technology, VENUS TC Optics offers homogeneous and precise light distribution (20° optics) without creating unwanted scallop effects (like with TIR lenses) and a minimal Color over Angle of < 65 K.
- With its IP67 protection rating and high-grade polyurethane encapsulation, VENUS TC is UV, salt water, solvent and air-polluting substances resistant. This establishes VENUS TC as a reliable option for demanding external environments.

Detailed specification text in the download area.

DIMENSIONS & AVAILABLE PROFILES



Fixture build to length (not field cutable): $L = (N \times 70 \text{ mm}) + 4 \text{ mm}$; $N = 5 \dots 28$; $L_{\min} = 354 \text{ mm}$; $L_{\max} = 1,964 \text{ mm}$

PLEASE NOTE !!!!

For DarkSky-compliant installation, please refer to the mounting instructions.

TECHNICAL SPECIFICATIONS

Certifications



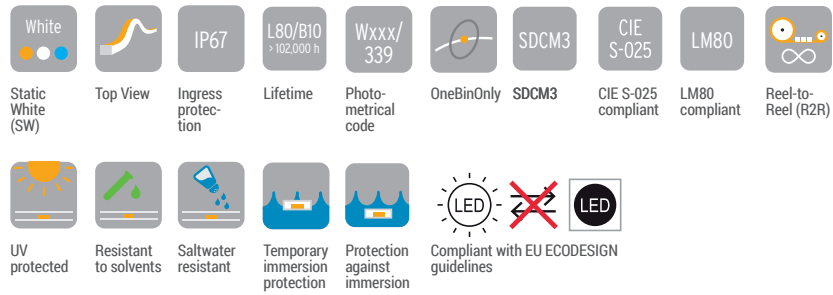
Family Key Features



Awards

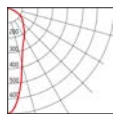


Technical Data/Performance



AVAILABLE OPTICS

Optics



20° – Light distribution function might be inclined by +/-5°.

ELECTRICAL & OUTPUT DATA

Voltage	24 Volt (23 V _{min} , 25 V _{max}) for external PSU
Case temperature (T_{Cmin} & T_{Cmax})	T _{Cmin} = -25°C, T _{Cmax} = specific, see Table below
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} = specific, see Table below
Electrical class	III (external PSU)

VENUS TC Top View Optics DarkSky	6 W	10 W	15 W
Power (W/m)^{A, C}	6	10	15
Efficacy (lm/W)^{A, C}	78	83	89
max. length (m)	1.96	1.96	1.96
max. serial run length (m)	12.0	9.0	6.0
CRI / R9 (up to)	96 / 90	96 / 90	96 / 90
Temp. Tc-point (T_{Cmax})^B	65°C	65°C	65°C
max. ambient temp. (T_{Amax})	50°C	50°C	40°C

low output  high output

VENUS TC Top View Optics DarkSky	6 W	10 W	15 W
Color code / Color temperature	luminaire lumens/meter (lm/m) ^A		
● 922 2,200 K	400	680	1,070
● 927 2,700 K	430	790	1,250
● 930 3,000 K	465	830	1,335

^A The 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%

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

^C Efficacy and wattage refer to light engine and optics, without consideration of driver.

ORDER CODE

Example:

VENUS TC TV 6 922 20E DC CLH 1964 IP67

TYPICAL APPLICATIONS

Configure now!

Options for the order code: Your selections ■:

Bend direction

Top View — TV

Optics

Optics 20° — 20E

LED tape

6 W/m — 6

10 W/m — 10

15 W/m — 15

Color temperature

2,200 K — 922

2,700 K — 927

3,000 K — 930

Cable / Connector configuration

Daisy chain (male / female) — DC

Male one side — MO

Open end one side — OO

Open end two sides — OT

Mounting type

Mounting clip with cable channel — CLH

Mounting clip w/o cable channel — CLL

Mounting profile with cable channel — MPH

Mounting profile w/o cable channel — MPL

VTC surface holding clamp clear — CLC

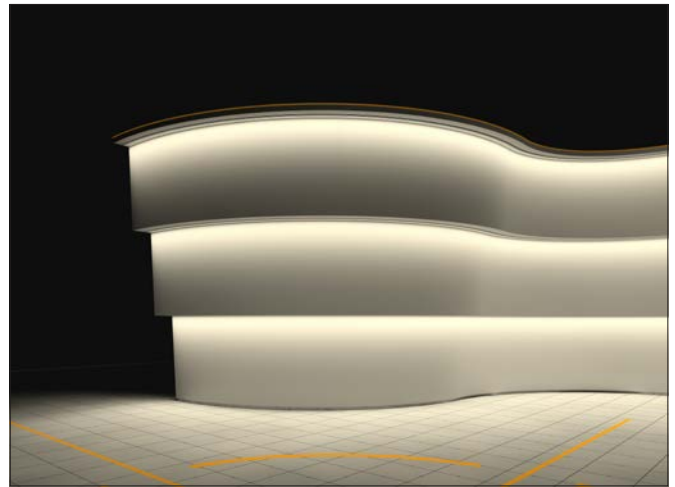
Length

L_{min}: 494 mm — 0494

L_{max}: 1,964 mm — 1964

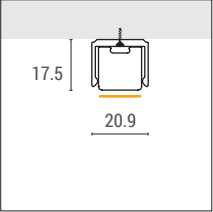



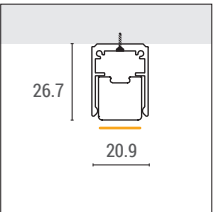


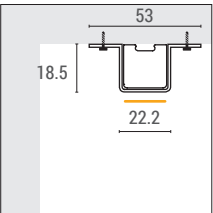


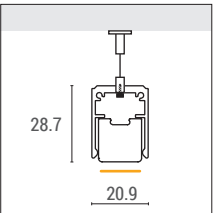




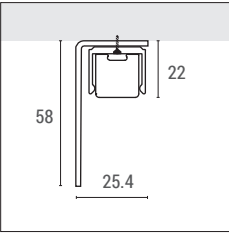


Fixture build to length (not field cuttable):

$L = (N \times 70 \text{ mm}) + 4 \text{ mm}; N = 7 \dots 28; L_{\text{min}} = 494 \text{ mm}; L_{\text{max}} = 1,964 \text{ mm}$






MOUNTING All dimensions in mm.

PLEASE NOTE !!!! For DarkSky-compliant installation, please refer to the mounting instructions.


1. Surface-mounted, Clips and profile w/o mounting channel	Mounting accessories	Description	Example of application
	 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	<p>Robust aluminum extrusion powder-coated in white. Use according to the mounting instruction.</p>	
2. Surface-mounted, Clips and profile with mounting channel	Mounting accessories	Description	
	 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) 30 mm x 26.7 mm x 20.9 mm Digits in order code: MPH	<p>Robust aluminum extrusion powder-coated in white. Use according to the mounting instruction.</p>	
3. Surface-mounted, Holding clamp, clear	Mounting accessories	Description	Example of application
	 VTC Surface Holding Clamp Clear (L x H x W) 15 mm x 20.5 mm x 53 mm Digits in order code: CLC	<p>PVC casting clamp for surface mount. Use according to the mounting instruction.</p>	
4. Pendant	Mounting accessories	Description	
	 VTC Pendant Set – 2 m for Flexible Pendant Profile (2 m Wire) Art.-#: 13000273  VTC Flexible Pendant Channel (L x H x W) 2000 mm x 26.7 mm x 20.9 mm Art.-#: 10000554  VTC Pendant Set – 5 m for Flexible Pendant Profile (5 m Wire) Art.-#: 13000274  VarioCANOPY Square Mounting set (optional) for pendant ceiling installations on concrete ceilings Art.-#: 16000347	<p>2 m pendant set for VENUS TC. Required accessories VTC flexible pendant channel #10000554*.</p> <p>Flexible pendant channel for decorative pendant light solutions. Required suspensions 13000273 (2 m)/ 13000274 (5 m)*.</p> <p>Flexible pendant channel for decorative pendant light solutions. Required suspensions 13000273 (2 m)/ 13000274 (5 m)*.</p> <p>Pendant set with screws for installations directly on the ceiling. Recommended to use every 1 m*.</p> <p>* Use according to the mounting instruction.</p>	
5. Glare Protection	Mounting accessories	Description	Example of application
	<p>The glare shield can be combined with the following mounting accessories: CLL CLH MPL MPH</p>  Glare Shield white – Aluminium glare shield (white, RAL9003) in 1 m and 2 m length. Art.-#: 10000622-RAL9003-1m 10000622-RAL9003-2m	<p>For a better glare control for people passing by. Use according to the mounting instruction.</p>	

POWER SUPPLY UNIT (PSU) & CONTROLS

Recommended PSU

Item	Description	Part number	Unit	Min. OQ
 <p>VarioPSU 24 V/100 W IP67, ON/OFF, Silver</p>	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	Stück (stk.)	5
 <p>VarioPSU 24 V/90 W IP67, 0 – 10 V, Black</p>	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.	16000154	Stück (stk.)	5
 <p>VarioPSU 24 V/90 W IP67, DALI®, Black</p>	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	Stück (stk.)	5

Recommended control

Item	Description	Part number	Unit	Min. OQ
 <p>IN.finite™ DALI® DT6 2CH CV</p>	Die 2CH IN.finite™ DALI® DT6 ist DALI® DT6 kompatibel und für konstantspannungsbetriebene LED-Leuchten und -Bändern mit bis zu zwei Kanälen geeignet.	16000268-DT6	Stück (stk.)	10

CABLING ACCESSORIES

 <p>VarioCon Female Mini 2 x 0.34 mm² 0.2 m IP67 Art.-#: 15000141 Required quantity:</p>	 <p>VarioCon Female Mini 2 x 0.34 mm² 2 m IP67 Art.-#: 15000142 Required quantity:</p>
 <p>VarioCon Extension Mini 2 x 0.34 mm² 0.1 m IP67 Art.-#: 15000143 Required quantity:</p>	 <p>VarioCon Extension Mini 2 x 0.34 mm² 2 m IP67 Art.-#: 15000144 Required quantity:</p>

VOLTAGE DROP INFORMATION FOR THE FEED-IN LINE (EXTERNAL PSU / CONTROLS TO FIXTURE)**0.34 mm² / AWG 22**

VENUS True Color TV Optics IP67	6 W	10 W	15 W
Product run length	Max. cable length between PSU / Control unit and the luminaire		
1 m	32.3 m	19.4 m	12.9 m
2 m	16.1 m	9.7 m	6.4 m
3 m	10.7 m	6.4 m	–
4 m	8.0 m	–	–
5 m	6.4 m	–	–

1.5 mm² / AWG 15

VENUS True Color TV Optics IP67	6 W	10 W	15 W
Product run length	Max. cable length between PSU / Control unit and the luminaire		
1 m	148.2 m	85.6 m	57.1 m
2 m	71.4 m	42.8 m	28.5 m
3 m	47.6 m	28.5 m	–
4 m	35.7 m	–	–
5 m	28.5 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. 0.85 V at 24 V DC input voltage.