

TECHNICAL SPECIFICATIONS

Certifications



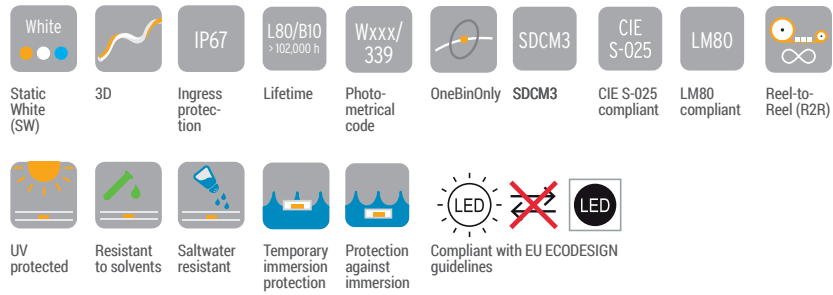
Family Key Features



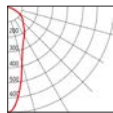
Awards



Technical Data/Performance



AVAILABLE 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 3D Optics DarkSky	6 W	10 W	15 W
Power (W/m)^{A, C}	6	10	15
Efficacy (lm/W)^{A, C}	80	83	84
max. length (m)	1.96	1.96	1.96
max. serial run length (m)	5.0	3.0	2.0
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 3D Optics DarkSky	6 W	10 W	15 W
Color code / Color temperature	luminaire lumens/meter (lm/m) ^A		
● 922 2,200 K	410	670	1,105
● 927 2,700 K	440	745	1,230
● 930 3,000 K	480	825	1,265

^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 3D 6 922 20E DC CHL 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 — 610 W/m — 1015 W/m — 15

Color temperature

2,200 K — 9222,700 K — 9273,000 K — 930

Cable / Connector

configuration

Daisy chain (male / female) — DCMale one side — MOOpen end one side — OOOpen end two sides — OT

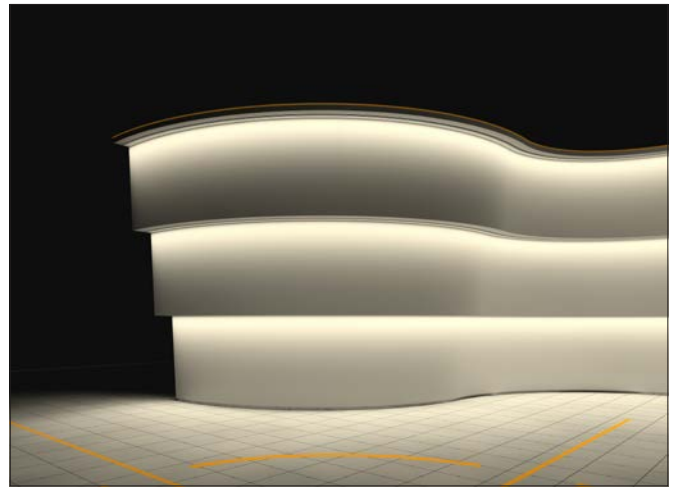
Mounting type

Mounting clip with cable channel — CLHMounting clip w/o cable channel — CLLMounting profile with
cable channel — MPHMounting profile w/o
cable channel — MPLVTC surface holding clamp clear — CLC

Length

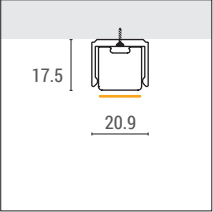



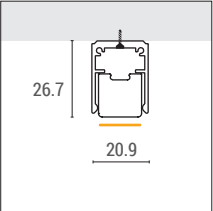


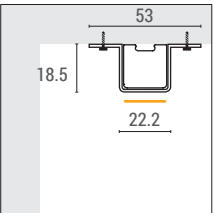


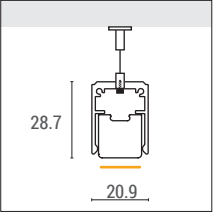




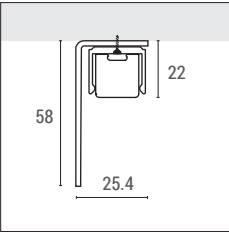


L_{min}: 494 mm — 0494L_{max}: 1,964 mm — 1964

Fixture build to length (not field cuttable):

L = (N x 70 mm) + 4 mm; N = 7 ... 28; L_{min} = 494 mm; L_{max} = 1,964 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 3D 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 3D 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.