

3D - Universal Bend

Designed to Enhance the Aesthetics of Organic Architecture

- VENUS TC TV and 3D are characterized by an identical cross-section and light output. This simplifies the specification process and is therefore the perfect solution for infinite, organic light lines.
- The IP67-protected Venus TC with its polyurethane encapsulation ensures chemical resistance to salt water, UV light and air-polluting substances.

Project name _____

Specifier _____

Fixture Type _____ Date _____

INTEGRATED CIRCUIT DRIVER Up to 371 lm/ft 89 lm/w constant light output	REEL-TO-REEL R2R PRODUCTION High Quality Solder Free Reels	TJAWAY™ THERMAL MANAGEMENT Exceptional Thermal Dissipation	ONE BIN ONLY 3 MacAdam 80 CRI	
L/B LIFETIME L80/B10>60,000 hrs /RGB>30,000hrs	6 DIGIT PHOTOMETRIC CODE Wxxx/339	IES LM79/LM80 COMPLIANT LM79/LM80 Compliant	TRUE COLOR Minimal Color Shift	

FIXTURE ORDER CODE

Example Order Code: VENUS TC 3D 6 W821 1964 0L DC CLH IP67

Family	Bend Direction	Luminous Flux	Color Temperature	Lengths*	Optics***	Cable/Connectors	Mounting Options**	Ingress
VENUS TC	---	---	---	---	---	---	---	IP67
	3D - 3D	6 - 1.8W/ft	W821 - 2100K	494 - Lmin: 494mm	0L - Opal Encapsulation	DC - Daisy chain (male/female)	CLH - Mounting clip with cable track	
		10 - 3.1W/ft	W925 - 2500K	Lmin: 1.62ft		MO - Male one side	CLL - Mounting clip w/o cable track	
		15 - 4.6W/ft	W927 - 2700K	1964 - Lmax: 1964mm		OO - Open end one side	MPH - Mounting profile with cable track	
			W930 - 3000K	Lmax: 6.44ft		OT - Open end two sides	MPL - Mounting profile w/o cable track	
			W934 - 3400K				CLC - Mounting clamp clear	
			W842 - 4200K				X - No mounting accessory	

* Fixture built to length (not field cuttable) : L= (N x 0.22"/70mm) + 0.01"/4mm; N=7...28; Lmin = 1.62'/494mm; Lmax = 6.44'/1964mm

** Refer to page 5 for mounting option details

*** Product available with clear encapsulation upon request.

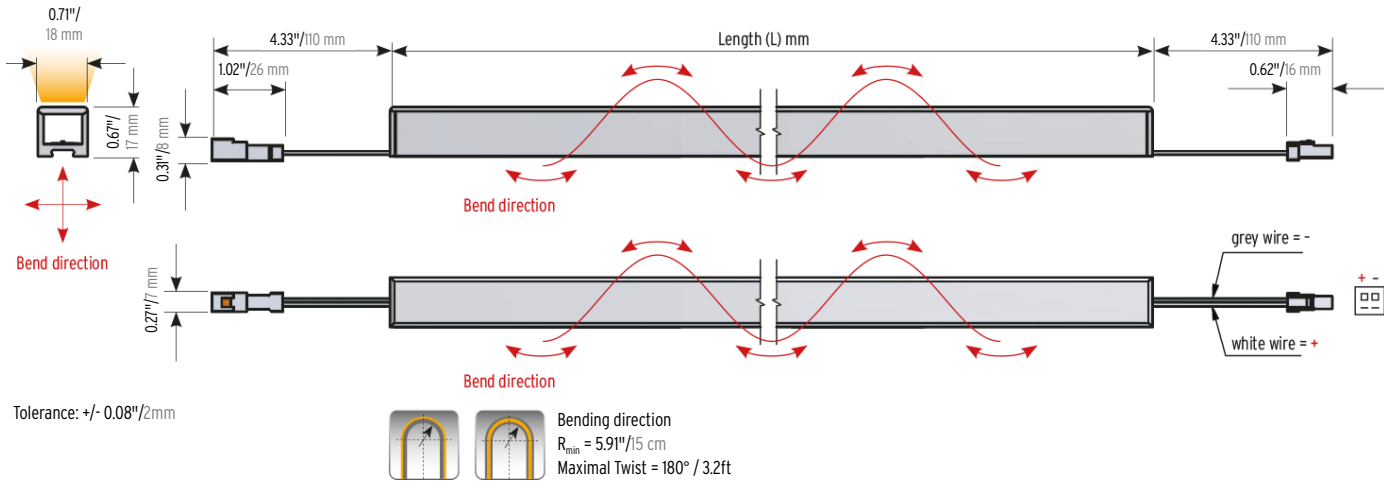
VENUS TC 3D OPAL IP67	1.8 W/ft / 6 W/m	3.1 W/ft / 10 W/m	4.6 W/ft / 15 W/m
Power (W/ft) ^A / (W/m) ^A	1.8/6	3.1/10	4.6/15
Efficacy (lm/W) ^A	67	73	73
max. length (ft/m)	6.4/1.97	6.4/1.97	6.4/1.97
max. serial length (ft/m)	16.4/5.0	9.8/3.0	6.6/2.0
R9	86	86	86
CRI	95	95	95
Temp. Tc-point (Tcmax) ^B	149°F/65°C	149°F/65°C	149°F/65°C
max. ambient temp. (Tamax)	122°F/50°C	122°F/50°C	104°F/40°C

VENUS TC 3D OPAL IP67	1.8 W/ft / 6 W/m	3.1 W/ft / 10 W/m	4.6 W/ft / 15 W/m	
CCT	Luminaire lumens/foot (lm/ft) ^M (lm/m) ^A			
W821	2100K	96/315	164/540	268/880
W925	2500K	96/315	161/530	265/870
W927	2700K	99/325	167/550	271/890
W930	3000K	102/335	172/565	277/910
W934	3400K	105/345	179/590	282/925
W842	4200K	123/405	224/735	335/1100

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.

DIMENSIONS & AVAILABLE LENGTHS



L = (N x 0.22"/70mm) + 0.01"/4mm; N=7..28; L_{min} = 1.62"/494mm; L_{max} = 6.44"/1964mm; Not field cuttable

LENGTH CHART - VENUS TC 3D OPAL IP67

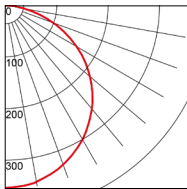
Fixture length		Low Output 1.8 Watts/Ft		Medium Output 3.1 Watts/Ft		High Output 4.6 Watts/Ft	
feet	mm	Watts/fixture	Lumens/fixture @3000K (lm/ft) (lm/m)	Watts/fixture	Lumens/fixture @3000K (lm/ft) (lm/m)	Watts/fixture	Lumens/fixture @3000K (lm/ft) (lm/m)
1.62	494	3	50/165	5	85/279	7	136/449
1.85	564	3	57/188	6	96/318	9	156/513
2.08	634	4	64/212	6	109/358	10	175/576
2.30	704	4	71/235	7	121/397	11	195/640
2.53	774	5	78/348	8	133/437	12	214/704
2.76	844	5	85/282	8	145/476	13	234/768
2.99	914	5	93/306	9	157/516	14	253/831
3.22	984	6	100/329	10	169/555	15	272/895
3.45	1054	6	107/353	10	181/595	16	292/959
3.68	1124	7	114/376	11	193/635	17	311/1022
3.91	1194	7	121/399	12	205/674	18	331/1086
4.14	1264	7	128/423	12	217/714	19	350/1150
4.37	1334	8	135/446	13	229/753	20	369/1213
4.60	1404	8	143/470	14	241/793	21	389/1277
4.83	1474	9	150/493	15	253/832	22	408/1341
5.06	1544	9	157/517	15	265/872	23	428/1405
5.29	1614	10	164/540	16	277/911	24	447/1468
5.52	1684	10	171/564	17	289/951	25	467/1532
5.75	1754	10	178/587	17	302/991	26	486/1596
5.98	1824	11	186/611	18	314/1030	28	505/1659
6.21	1894	11	193/634	19	326/1070	29	525/1723
6.44	1964	12	200/657	19	338/1109	30	544/1787

TECHNICAL SPECIFICATION

Voltage	24 Volt (23 Vmin, 25 Vmax)
Case Temperature	Tcmin = -13°F/-25°C, Tcmax = specific, see table
Storage Temperature	Tsmin = -22°F/-30°C, Tsmax = 185°F/85°C
Ambient Temperature	Tamin = -13°F/-25°C, Tamax = specific, see table below

AVAILABLE OPTICS

POLYURETHANE ENCAPSULATION

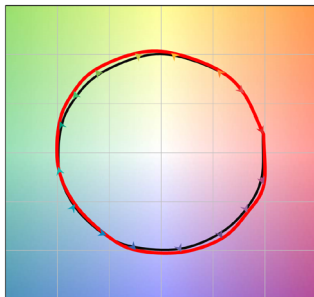


Light distribution function might be inclined by +/-5°

COLORMETRIC DETAILS - VENUS TC 3D OPAL IP67

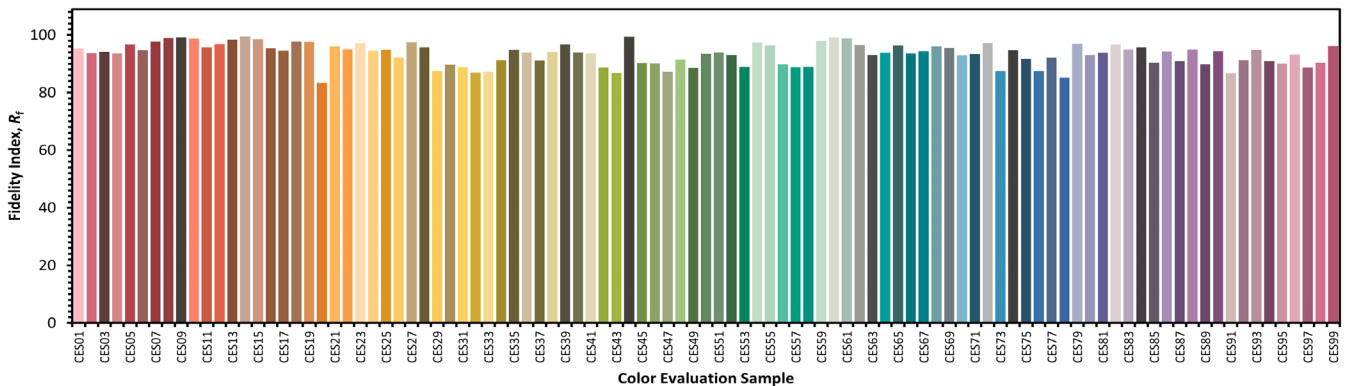
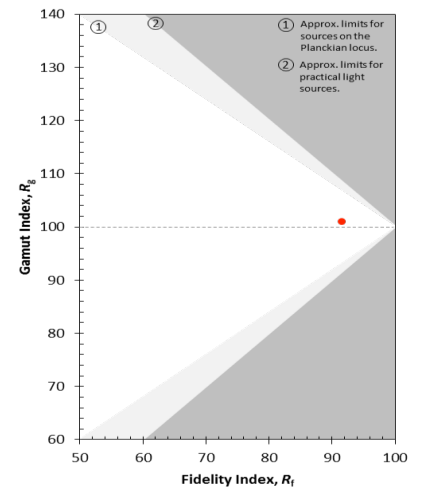
Photometric Code	CCT	R _a / CRI	R9	TM-30-15 / R _f	TM-30-15 / R _g
W930	3000 K	96	80	93	105

COLOR VECTOR GRAPHIC



Reference Illuminant
Test Source

COLOR DISTORTION GRAPHIC



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

0.34mm² / AWG 22

VENUS TC 3D OPAL IP67		1.8 W/ft / 6 W/m		3.1 W/ft / 10 W/m		4.6 W/ft / 15 W/m	
Product run Length		max. cable length between PSU / Control unit and the luminaire					
ft	m	ft	m	ft	m	ft	m
3.3	1	106.0	32.3	63.6	19.4	42.3	12.9
6.6	2	52.8	16.1	31.8	9.7	21.0	6.4
9.8	3	35.1	10.7	21.0	6.4	-	-
13.1	4	26.2	8	-	-	-	-
16.4	5	21.0	6.4	-	-	-	-

1.5mm² / AWG 15

VENUS TC 3D OPAL IP67		1.8 W/ft / 6 W/m		3.1 W/ft / 10 W/m		4.6 W/ft / 15 W/m	
Product run Length		max. cable length between PSU / Control unit and the luminaire					
ft	m	ft	m	ft	m	ft	m
3.3	1	468.5	142.8	280.8	85.6	187.3	57.1
6.6	2	234.3	71.4	140.4	42.8	93.5	28.5
9.8	3	156.2	47.6	93.5	28.5	-	-
13.1	4	117.1	35.7	-	-	-	-
16.4	5	93.5	28.5	-	-	-	-

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.

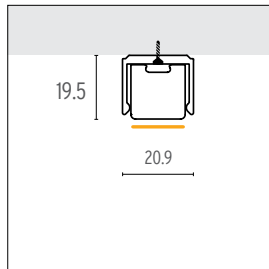
Regarding the electromagnetic compatibility (EMC) the maximum cable length is defined by the power supply manufacturer.

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.

INCLUDED MOUNTING ACCESSORIES

SURFACE-MOUNTED, CLIPS, AND PROFILE WITHOUT CABLE CHANNEL



MOUNTING ACCESSORIES



VTC Surface Mounting Clip Low
Digits in order code: CLL



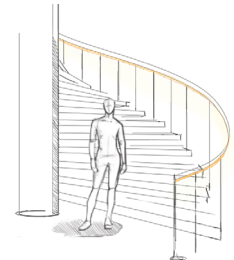
VTC Surface Mounting Channel Low
Digits in order code: MPL

DESCRIPTION

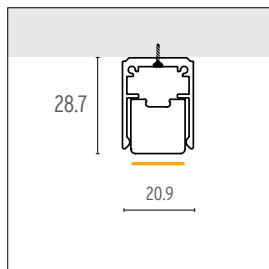
Robust aluminum extrusion painted in white available as profile for surface mount.

Robust aluminum extrusion painted in white also available as clips for surface mount.

APPLICATION EXAMPLE



SURFACE-MOUNTED, CLIPS AND PROFILE WITH CABLE CHANNEL



MOUNTING ACCESSORIES



VTC Surface Mounting Clip High
Digits in order code: CLH



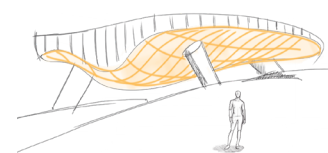
VTC Surface Mounting Channel High
Digits in order code: MPH

DESCRIPTION

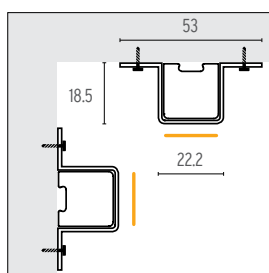
Robust aluminum extrusion painted in white available as profile for surface mount.

Robust aluminum extrusion painted in white also available as clips for surface mount.

APPLICATION EXAMPLE



SURFACE-MOUNTED, VERTICAL/HORIZONTAL



MOUNTING ACCESSORIES

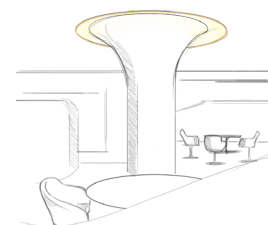


VTC Surface Holding Clamp Clear
Digits in order code: CLC

DESCRIPTION

PVC casting clamp for surface mount.

APPLICATION EXAMPLE

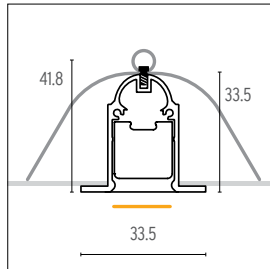


*Mounting accessories are included with fixtures. Additional accessories can be purchased upon request.

OPTIONAL MOUNTING CONFIGURATIONS

To be Ordered Separately

RECESSED



MOUNTING ACCESSORIES



VTC Recessed Profile (2m Set)
(L x H x W) 2000mm x 46mm x 36.3mm
Art-#: 10000559



VTC Recessed Profile (4m Set)
(L x H x W) 4000mm x 46mm x 36.3mm
Art-#: 10000559-4m



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

DESCRIPTION

Profile with mounting springs can be installed directly into false ceiling.

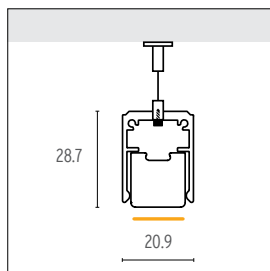
Profile with mounting springs can be installed directly into false ceiling.

Set of two endcaps for recessed VENUS TC light lines.

APPLICATION EXAMPLE



PENDANT



MOUNTING ACCESSORIES



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



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



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



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

DESCRIPTION

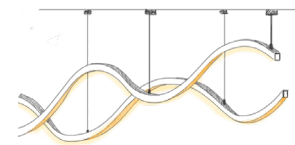
2m pendant set for VENUS TC. Required accessories VTC flexible pendant channel #10000554

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



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

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









APPLICATION EXAMPLE




CABLES AND CONNECTORS

ITEM	DESCRIPTION	MODEL	DIMENSIONS	ORDER CODE
	Mini Female Connector IP67 for Static White	Static White Static White	2 x 22 Awg, 8 in 2 x 22 Awg, 6.5 ft	15000141 15000142
	Mini Extension IP67 for Static White	Static White Static White	2 x 22 Awg, 4 in 2 x 22 Awg, 6.5 ft	15000143 15000144

DRIVERS

ITEM	SPECIFICATIONS	DOWNLOADS
LED LINEAR™ Non-Dimmable Drivers 	<ul style="list-style-type: none"> - UL 8750 Listed Enclosure - With Built-In Junction Boxes - Universal Input Voltage 120V - 277V - IP65 - For Both Indoor and Outdoor Use - No Minimum Load Requirement - 24V Constant Voltage Output, Class 2 - Available in three wattages 30W, 60W and 96W - Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8" 	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ 0-10V Dimmable Drivers 	<ul style="list-style-type: none"> - UL 8750 Listed Enclosure - With Built-In Junction Boxes - 0-10V Dimmable - Flicker Free Down to 1% - Universal Input Voltage 120V - 277V - IP65 - For Both Indoor and Outdoor Use - 24V Constant Voltage Output, Class 2, Class P - Available in three wattages 30W, 60W and 96W - Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8" 	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ ELV/Triac Dimmable Drivers 	<ul style="list-style-type: none"> - UL 8750 Listed Class 2 Enclosure - 24V constant voltage output - Compact size yet high efficiency and performance in dry and damp environments (IP67) - Multiple Inputs: 120V or 277V - Fully dimmable: ELV Dimmers - Reverse or Adaptive Phase Control, Trailing Edge - Available in two wattages 48W and 96W 	48 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
 PWM Dimmable Drivers 	<ul style="list-style-type: none"> - Universal AC input / Full range (up to 305VAC) - Constant voltage PWM style output - Built-in 3 in 1 dimming function (0-10Vdc or PWM signal or resistance) - Dimming range : 0-100% - Class 2 power unit - Suitable for dry / damp / wet locations - UL Recognized component, 5 years warranty 	30 W SPEC SHEET 60 W SPEC SHEET 90 W SPEC SHEET INSTALLATION INSTRUCTIONS
 Dimmable Drivers 	<ul style="list-style-type: none"> - UL Listed Enclosure - Dimming Range: 100% to 1% and 0.1% (Premiere) - LED lighting turns on to any dimmed level without flashing to full brightness - Operating Voltage: 120V~ to 277V~ at 50/60 Hz - Rated lifetime of 50,000 hours at 40°C (104°F) ambient temperature and maximum loading - For rated warranty, ambient temperature not to exceed 40°C (104°F) - Open-circuit protected output 	HI-LUME SPEC SHEET HI-LUME PREMIERE SPEC SHEET INSTALLATION INSTRUCTIONS
eldoLED DALI/DMX Dimmable Drivers 	<ul style="list-style-type: none"> - Available in linear or rectangular format - 100W, DMX/DALI interface for Static White, Tunable White and RGB/W Applications - 4 control channels - 24V constant voltage, 4 x 24V outputs - Metal or plastic case options 	100 W SPEC SHEET INSTALLATION INSTRUCTIONS

CONTROLLERS

ITEM	SPECIFICATIONS	DOWNLOADS
eldoLED Controllers 	<p>180/D DMX Controller for RGB/W and Tunable White Applications</p> <p>210/D Dali Controller for Static White Applications</p> <p>211/D-LG 0-10V Logarithmic Dimming Controller</p> <p>211/D-LN 0-10V Linear Dimming Controller</p> <p>212/D DMX Controller for Static White and Static Color Applications</p>	180/D SPEC SHEET 210/D SPEC SHEET 211/D-LG SPEC SHEET 212/D SPEC SHEET

Click for more information

PRODUCT BROCHURE

INSTALLATION

IES FILES

LED LINEAR TECHNOLOGY

