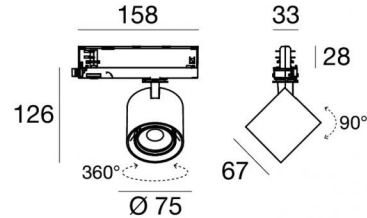# Optus_T V2

Projectors | 176-264 V AC /176-280 V DC
1 arrayLED 10 W DC - 12 W AC | CRI 90
C00997WHWSP

Technical data	
Type	Track
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	arrayLED
Optics	Spot
Light emission direction	frontal
Nominal power	10 W DC
Total Power	12 W
Source lumens	1892 lm
Nominal input voltage	220 - 240 V AC
Input voltage range	176 - 264 V AC
Frequency	50 - 60 Hz
CCT / Tone	3000 K
Colour rendering index	90 Ra
C.C. / C.V.	AC
Safety class	2
IP	IP20
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Driver included	Driver
Dimmable article	No
Directional	Swivelling
total angle (vertical plane)	90 °
total angle (horizontal plane)	360 °
Tilting	No
Walk-over	No
Drive-over	No
Cable included	No
Resin potting	No
Type of light emission	Single emission
Net weight	0.412 Kg
Electrostatic discharge protection	Yes
Surge protection	2 KV

Finishing casing	
Material	Die-cast Aluminium EN AB - 46100
Colour	White
Processing	Powder coating

The driver contained in the device complies with IEC 61347-2-13 annex J, and can therefore be powered by centralized power systems.

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Projectors | 176-264 V AC /176-280 V DC | 1 arrayLED 10 W DC - 12 W AC | CRI 90 | Base
C00997WHWSP

Single emission projectors for indoor application. The warm white LED light source with a spot light distribution is composed of 1 arrayled LEDs with CCT of 3000 K and a CRI 90; the source luminous flux is 1892 lm, with a 189.2 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a white finish, processed by means of powder coating. The ingress protection degree is IP20; the total weight is of 0.412 kg.

The total absorbed power is 12 W.

The device features protection class II and can be ceiling-mounted.

Compliant with the EN 60598-1 standard and its specific provisions.

Energy efficiency class

This product contains a light source of energy efficiency class E.

Illuminotechnical Features

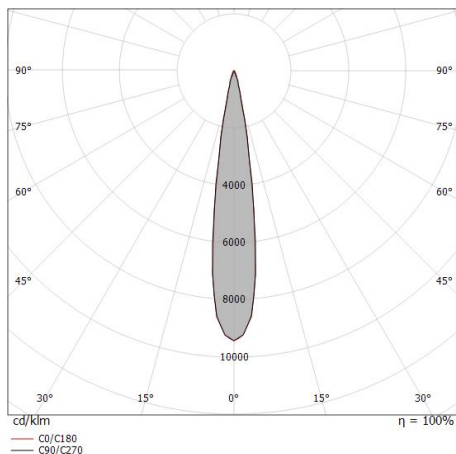|	
Light Output Ratio (LOR)	70 %
Source lumens	1892 lm
Delivered lumens	1341 lm
Consumption	12 W
Luminaire efficacy	111 lm/W
Colour temperature	3000 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	90 Ra
Colour Rendering Index	60 R9
Black Body Locus	On
Standard Operating Ambient Temperature	-20 / +50°C
Ordinary temperature on the glass	40°C

LED Life / Failure Ratio

L70 B10 C0 252000h (at Tj 65 Ta 25)

UGR

UGR axial	14.7
UGR transversal	14.7
X=4H	Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

C0/C180 optics	16°
Light distribution simmetry	Symmetrical

COLOR VECTOR GRAPHIC

cd/klm   η = 100%
— C0/C180
— C90/C270

Distance [m]	Cone diameter [m]		Illuminance [lx]	
0.5	0.14 / 0.14	E(0°)		50566
		E(C90)	8.2°	24952
		E(C0)	8.1°	24916
1.0	0.29 / 0.28	E(0°)		12641
		E(C90)	8.2°	6238
		E(C0)	8.1°	6229
1.5	0.43 / 0.43	E(0°)		5618
		E(C90)	8.2°	2772
		E(C0)	8.1°	2768
2.0	0.58 / 0.57	E(0°)		3160
		E(C90)	8.2°	1560
		E(C0)	8.1°	1557
2.5	0.72 / 0.71	E(0°)		2023
		E(C90)	8.2°	998
		E(C0)	8.1°	997
3.0	0.86 / 0.85	E(0°)		1405
		E(C90)	8.2°	693
		E(C0)	8.1°	692

— C0/C180 (Half-peak divergence: 16.2°)
— C90/C270 (Half-peak divergence: 16.4°)

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	Optics Light distribution: adjustable,Cover material: uv resistant polycarbonate	**Code** C-U100002
	Optics Light distribution: adjustable,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate	**Code** C-U100003
	Optics Light distribution: adjustable,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate	**Code** C-U100004
	Anti-glare - Accessory for focal kit with code 83347. Anti-glare Type: honeycomb louvre. Material:Pom-C, colour:Black.	**Code** 99841
	Anti-glare Anti-glare Type: honeycomb louvre. Material:Pom-C, colour:Black.	**Code** C-U300043
	Diffuser Diffuser Type: elliptical filter	**Code** C-U300044
	Anti-glare Anti-glare Type: cylindrical screen. Material:Pom-C, colour:Black.	**Code** C-U300045
	Anti-glare Anti-glare Type: 45° cylindrical screen. Material:Pom-C, colour:Black.	**Code** C-U300046

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			Code
	Anti-glare Anti-glare Type: cross louvres. Material:Pom-C, colour:Black.		C-U300047

			Code
	Optics Light distribution: adjustable,Cover material: ,aluminium		83347

		Finish	Code
	Track Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	White	83336

		Finish	Code
	Track Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	White	83337

		Finish	Code
	Track Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	White	83338

		Finish	Code
	Track Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	Black	83339

		Finish	Code
	Track Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	Black	83340

		Finish	Code
	Track Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	Black	83341

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			Finish	Code
		Track - Three-phase Recessed White DALI Track, 1 m (9000-1/W-R) Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	White	80990
		Track - Three-phase Recessed White DALI Track, 2 m (9000-2/W-R) Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	White	80991
		Track - Trhee-phase Recessed White DALI Track, 3 m (9000-3/W-R) Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	White	80992
		Track - Three-phase Recessed Grey DALI Track, 1 m (9000-1/B-R) Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	Black	80993
		Track - Three-phase Recessed Black DALI Track, 2 m (9000-1/B-R) Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	Black	80994
		Track - Three-phase Recessed Black DALI Track, 3 m (9000-3/B-R) Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	Black	80995
		Power supply - White Right power supply header (9001/W) Material:PC, colour:white.		81033
		Power supply - Black Right power supply header (9001/B) Material:PC, colour:black.		81034

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Power supply - White left power supply header (9002/W) Material:PC, colour:white.	**Code**	81036

Power supply - Black left power supply header (9002/B) Material:PC, colour:black.	**Code**	81037

	Finish	**Code**
Junction - White power supply junction - central (9010/W) Type linear. Material:PC, colour:white.	White	81042

	Finish	**Code**
Junction - Black power supply junction - centrale (9010/B) Type linear. Material:PC, colour:black.	Black	81043

	Finish	**Code**
Junction - Flexible white junction (9018/W) Type flexible curve. Material:PC, colour:white.	White	81066

	Finish	**Code**
Junction - Flexible black junction (9018/B) Type flexible curve. Material:PC, colour:black.	Black	81067

	Finish	**Code**
Junction - Left white T junction - external (9013/W) Type linear. Material:PC, colour:white.	White	81051

	Finish	**Code**
Junction - Black left T junction - external (9013/B) Type linear. Material:PC, colour:black.	Black	81052

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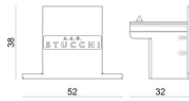|			Finish	Code
	Junction - Right white T junction - external (9014/W) Type linear. Material:PC, colour:white.		White	81054
	Junction - Right black T junction - external (9014/B) Type linear. Material:PC, colour:black.		Black	81055
	Closing cap - White end cap 9004/W Material:PC, colour:white.			**Code** 80999
	Closing cap - Black end cap 9004/B Material:PC, colour:black.			**Code** 81000
	Junction - White electrical junction - internal (9003/W) Type linear. Material:PC, colour:white.		White	81039
	Junction - Black electrical junction - internal (9003/B) Type linear. Material:PC, colour:black.		Black	81040
	Junction - White L junction - internal (9011/W) Type linear. Material:PC, colour:white.		White	81045
	Junction - Black L junction - internal (9011/B) Type linear. Material:PC, colour:black.		Black	81046

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			Finish	Code
		Junction - White L junction - external (9012/W) Type linear. Material:PC, colour:white.	White	81048
		Junction - Black L junction - external (9012/B) Type linear. Material:PC, colour:black.	Black	81049
		Junction - White X junction (9017/W) Type linear. Material:PC, colour:white.	White	81063
		Junction - Black X junction (9017/B) Type linear. Material:PC, colour:black.	Black	81064
		Junction - Left white T junction - internal (9015/W) Type linear. Material:PC, colour:white.	White	81057
		Junction - Left black T junction - internal (9015/B) Type linear. Material:PC, colour:black.	Black	81058
		Junction - Right White T junction - internal (9016/W) Type linear. Material:PC, colour:white.	White	81060
		Junction - Right black T junction - internal (9016/B) Type linear. Material:PC, colour:black.	Black	81061

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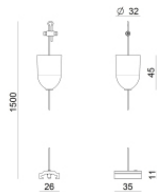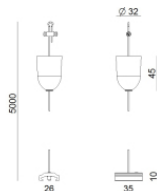|		**Code**
	Closing cap - Recessed white end cap 9004-R/W Material:PC, colour:white.	81002
	Closing cap - Recessed black end cap 9004-R/B Material:PC, colour:black.	81003
	Ceiling rose - 1.5m white pendant luminaires kit + bracket (9000-KIT5-1,5-W) Material:plastic, colour:white.	81012
	Ceiling rose - 1.5m black pendant luminaires kit + bracket ((9000-KIT5-1,5-B) Material:plastic, colour:black.	81014
	Ceiling rose - 5m white pendant luminaires kit + bracket (9000-KIT5-5-W) Material:plastic, colour:white.	81013
	Ceiling rose - 5m black pendant luminaires kit + bracket (9000-KIT5-5-B) Material:plastic, colour:black.	81015
	Suspensions - White rigid suspension 1m (S-9000-P3-W) Material:plastic, colour:white.	81021
	Suspensions - Black rigid suspension 1m (S-9000-P3-B) Material:plastic, colour:black.	81022

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			Finish	Code
	Bracket - Anodized fixing bracket (S-9000/131) L=35mm, H=14mm, D=24mm. Material:Aluminium, colour:translucent.		Anod. Al.	81086

			Finish	Code
	Bracket - White fixing braket (S-9000/131-W) L=35mm, H=14mm, D=24mm. Material:Aluminium, colour:white, processing:Coating.		White	81087

			Finish	Code
	Bracket - Black fixing braket (S-9000/131-B) L=35mm, H=14mm, D=24mm. Material:Aluminium, colour:Black, processing:Coating.		Black	81088

		Code
	Cable cover - White recessed cover (S-9001-R/6-W) Material:PC, colour:white.	81069

		Code
	Cable cover - Black recessed cover (S-9001-R/6-B) Material:PC, colour:black.	81070

		Code
	Cable cover - White cover for recessed L junction (S-9011-R/6-W) Material:PC, colour:white.	81075

		Code
	Cable cover Material:PC, colour:black.	81076

		Code
	Cable cover - White cover for recessed X junction (S-9017-R/6-W) Material:PC, colour:white.	81081

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	Cable cover - Black cover for recessed X junction (S-9017-R/6-B) Material:PC, colour:black.	**Code**	81082
	White three-phase adapter (9009-4/W)	**Code**	81091
	Black trhee-phase adapter (9009-4/B)	**Code**	81093
	Tool - Cutter S-9000/T	**Code**	81005
	Suspensions - 1.5m white pendant luminaires kit (9000-KIT3-1,5-W) Material:plastic, colour:white.	**Code**	81006
	Suspensions - 1.5m black pendant luminaires kit (9000-KIT3-1,5-B) Material:plastic, colour:black.	**Code**	81008
	Suspensions - 5m white pendant luminaires kit (9000-KIT3-5-W) Material:plastic, colour:white.	**Code**	81007
	Suspensions - 5m black pendant luminaires kit (9000-KIT3-5-B) Material:plastic, colour:black.	**Code**	81009

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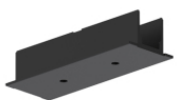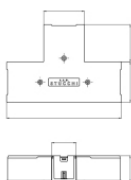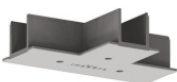|		Finish	Code
	Suspensions - White rigid suspension clip (S-9000-P2-W) Material:plastic, colour:white.		**Code** 81018
	Suspensions - Black rigid suspension clip (S-9000-P2-B) Material:plastic, colour:black.		**Code** 81019
	Bracket - Anodized stiffening bracket (S-9000/333) L=180mm, H=24mm, D=26mm. Material:Aluminium, colour:Anodised Aluminum, processing:Anodisation.	**Finish**	**Code** 81024
	Bracket - White stiffening bracket (S-9000/333-W) L=180mm, H=24mm, D=20mm. Material:Aluminium, colour:white RAL 9010, processing:Coating.	**Finish** White	**Code** 81025
	Bracket - Black stiffening bracket (S-9000/333-B) L=180mm, H=24mm, D=20mm. Material:Aluminium, colour:black RAL 9005, processing:Coating.	**Finish** Black	**Code** 81026
	Cable cover - White cover for recessed junction (S-9010-R/6-W) Material:PC, colour:white.		**Code** 81072
	Cable cover - Black cover for recessed junction (S-9010-R/6-B) Material:PC, colour:black.		**Code** 81073
	Cable cover - White cover for recessed T junction (S-9013-R/6-W) Material:PC, colour:white.		**Code** 81078

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	Cable cover - Black cover for recessed T junction (S-9013-R/6-B) Material:PC, colour:black.	**Code** 81079
	Cable cover Material:white.	**Code** 83249
	Cable cover Material:black, colour:black.	**Code** 83250
	Closing cap - White gasket (S-9001/115-W) Material:white.	**Code** 81084
	Closing cap - Black gasket (S-9001/115-B) Material:black, colour:black.	**Code** 81085
	White three-phase/DALI adapter (9009/W)	**Code** 81094
	Black three-phase/DALI adapter (9009/B)	**Code** 81095

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