PRODUCT INFORMATION

www.guvtec.com

Technilamp®

GERMICIDAL UV-C LUMINAIRE

TLR 30

CEILING MOUNTED LUMINAIRE

25

YEARS EXPERIENCE IN AIR PURIFICATION

info@guvtec.com 353 1 442 8588 www.guvtec.com
8-9 Westmoreland Street Dublin, DO2 NW22 reg: Guvtec 667556 TM: 018349445 Dublin

Technilamp® **TLR 30** 360° - Area coverage 36m²; Ceiling Mounted

TECHNICAL DATA

Ceiling Mounted size 560x550x300cm
Fitted with Philips 6 X PL-S - 9W TUV/4P lamps
Coverage 36m²
Weight 15kg
Large waiting area of Hospitals / Clinics

Desciption Specification

Model	UV-C radiant Flux (UV-C W)	Radiant Efficacy	Peak UV-C Irradiance 1.0 M	2.0 M
TLR 30	**1.36**	**0.0025W/VA**	**39.80**	**11.24**

Coverage	36m²
Electrical	220/230V AC Supply
Size	560 x 550 x 300
Weight	15kg's
Lamp Type & Watt Rating	6 x Philips PL-S TUV 9W
Lamp Life/Replacement Hours	9000 Hours
The durability of Fitting Lifespan	7 – 10 years
Manufacturing	ISO 9001 Approval
UV-C 254nm	Emission Delivers the straightest, most powerful UV beam with a higher kill rate
Upper-Air UV-C Fluence	1.2M – 20µm² 5.0M – 10µm²
Lower Safe Working Zone	0.2-0.4µm²

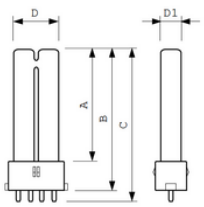
PHILIPS Lighting

TUV PL-S
TUV PL-S 9W/4P

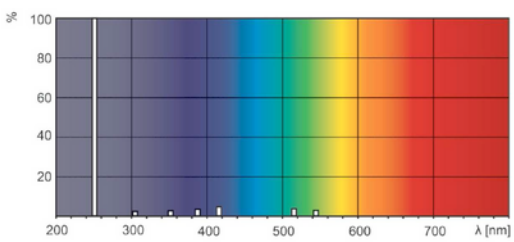
General information	
Cape base	2G7 (2G7)
Main application	disinfection
Useful life (norm)	9000h
Light Technical	
Colour code	TUV
Colour Designation	-(Not Specifiec)
Depreciation and useful time life time	20%
Operational and Electrical	8.6W
Power (Rated) Nom	0.17A
Lamp current (Nom.)	
EAN/UPC - product	87115000710833
Order code	927901904007
Numerator- quantity per pack	1
SAP nemerator - packs per outer box	60

Voltage (Nom)	60V
Mechanical and Housing	
Cap base information	4 Pins(4P)
Approval and Application	
Mercury (Hg) content (Nom)	3,0mg
UV	2,3W
UV-C Radiation	
Product data	871150071083380
Full product code	TUVPL-S)W/4P
Order Product name	927901904007
Material no (12 NC)	30.000 g
Net weight	

Dimensional drawing



Photometric data



XDPB_XUTUVPLS-Spectral power distribution B/W

XDPO_XUTUVPLS-Spectral power distribution Colour

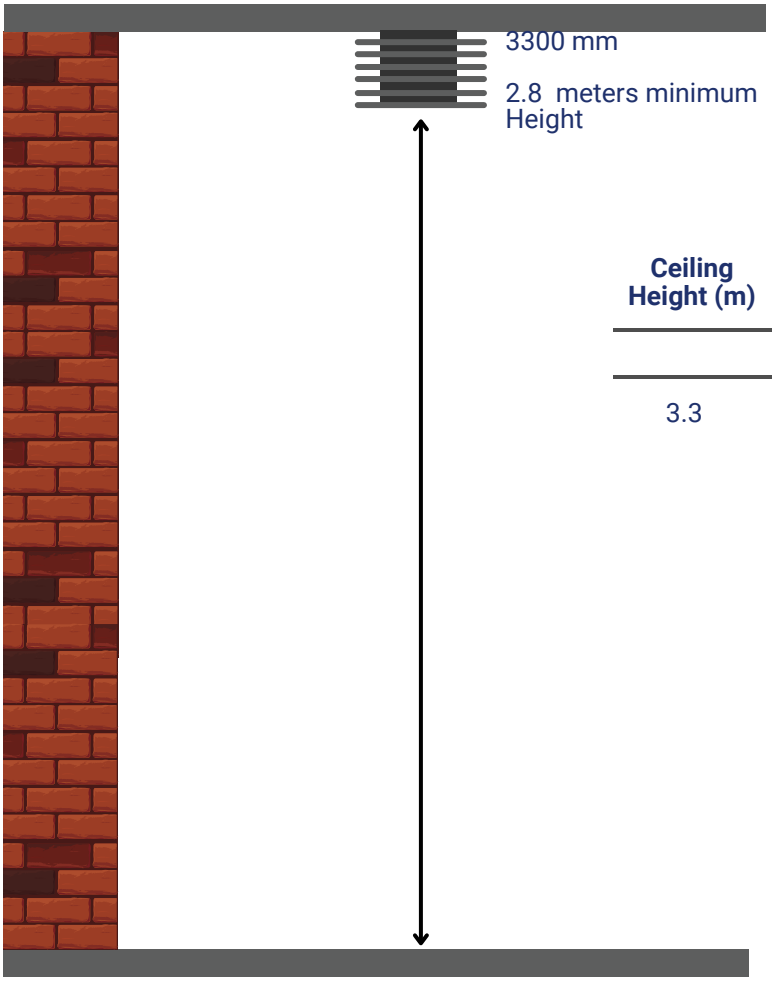
COMMISSIONING OF TECHNILAMP GUV FITTINGS

Fittings are to be fitted according to the design specifications laid out by Technilamp, based on the design guidelines set forth by the CDC and NIOSH.
The units have been tested by the University of Pretoria and the SABS and comply with SANS (IEC) 60598-2-1. As well as the ISO9001 standard. (Test document summary available on request).
The GUV units are safe for a work environment granted the installation is done to the Technilamp installation guidelines.

INSTALLATION GUIDELINES

The GUV units are to be installed on a solid wall or ceiling to prevent sagging or tilting leading to irradiation angle deformation over time.
The GUV units have to be installed with the power pack facing downwards.
The top of the unit needs to be level with the floor in the width of the unit as well as irradiating direction.
The GUV units should not be installed closer to the floor than 2800mm (2.8Meters) from the floor to the bottom of the fitting (higher is better, ceiling permitting) and no higher than 3300mm (3.3 Meters) as per illustration.

TECHNILAMP LUMINAIRE HEIGHT INSTALLATION SPECFICATIONS For TLR 30



Ceiling Height (m)	Recommended Mounting Height (m)
	Ceiling Type (360)
3.3	2.8

SAFETY INSTALLATION GUIDE

Background of the use UV-C light :

TECHNILAMP* Luminaries use a 254nm Philips Lamp that effectively disinfects microorganisms such as mould, bacteria, and viruses. GUV is a valid element in indoor airborne infection control strategies.

Warnings

UV-C has a much shorter wavelength and therefore a lower skin penetration depth thus does not easily cause skin irritation or cancers when compared to the UV-A and UV-B found in sunlight. UV-C can cause eye irritation at high exposure levels, therefore care must be taken to avoid direct contact.

Safety

To ensure safety, the installation design must be aligned to the specific design of TECHNILAMP* Luminaire ceiling, corner, or wall-mounted system and must follow TECHNILAMP* strict recommendations. All TECHNILAMP* Luminaires must not be able to tilt under normal operation or conditions. This applies to all three versions of Luminaires.

Sensors & Motion detection

UVC light is effective when used correctly, safeguards should be in place when installing the Luminaires, we recommend that motion sensors be installed at luminaire ceiling height, the sensor range should be at the same range of the narrow UV-C light emitted, so that, the Luminaire is not interrupted by activity below, but only when exposure directly by the narrow UV-C light emitted at ceiling height.

Evaluation of Facility to be fitted:

Height of Ceiling

Care must be taken that the room meets the adequate room height requirements, that allow for safe emission The minimum installation height of the lower horizontal reference plane of any open GUV device is 2.8meters

Reflections in the facilities

The potential of high UV-C intensities being reflected in the occupied portion of the room must be considered by designers and users.
Certain materials and surfaces that reflect visible light might also reflect UV-C light; for example consider windows, mirrors, exposed ducting, and metallic or high gloss architectural finishes in the upper room, this needs to be blackened or removed to ensure no light deviation.

Stairway exposure of UV-C Light

Care must be taken in the placement of TECHNILAMP Luminaries in rooms or foyers, that have stairways that will expose light to people ascending upwards, placement of Luminaire needs to be placed at the stairway region and shining the light away from the stairway and not towards it, dividers can be placed to protect upper 1/3 of the stairwell, can also be considered, a light meter can be used to measure exposure of the upper 1/3rd of stairwell.

Measurement of light dispersion

TECHNILAMP* luminaires are installed with PHILIPS good quality low-pressure mercury vapor arc lamps (dominant at UV-C 254 nm), as the Luminaries are placed at advised ceiling height, a good protocol is to measure the light dispersion so that safety measurements should form part of the characterization and commissioning, of the fixture as the human eye is sensitive to the UV-b spectrum (280-315 nm). The onus is on the user to confirm or have these safety limits confirmed

Technilamp®

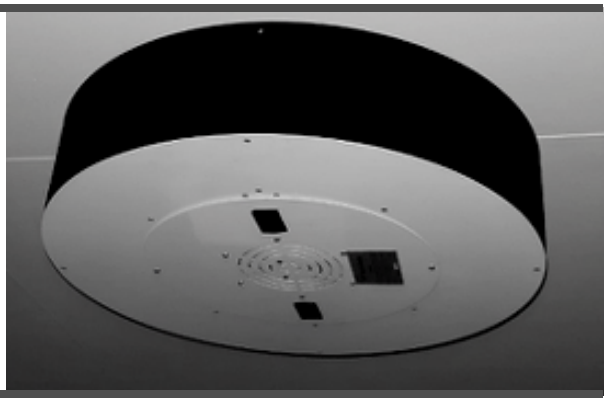
INSTRUCTIONS MANUAL

TLR 30

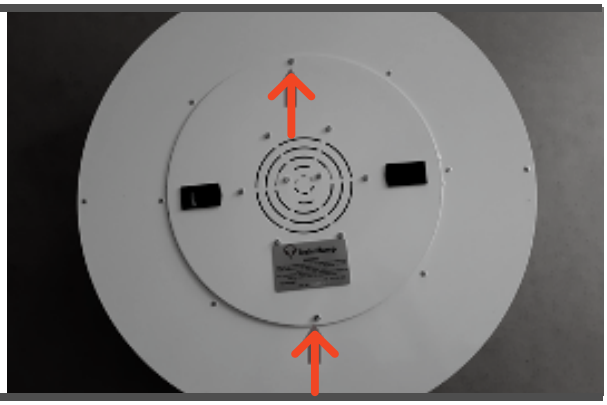
360° - Area coverage
36m²; Ceiling Mounted

CE IEC 60335-2-65

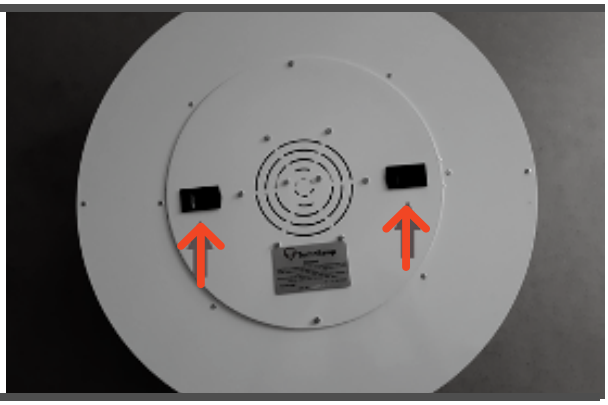
The TLR-30 was designed to be installed 2800mm from the floor in the centre of an designated area as the unit's radiation profile is in a three hundred and sixty degree spread.



After the unit has been unboxed the power supply needs to be removed this is done by removing the safety locking screws.



The power supply can now be removed.
Be pressing towards one another on the locking tabs and pulling away from the unit



guvtec® GERMICIDAL UV

Technilamp® **INSTRUCTIONS MANUAL**

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360° - Area coverage
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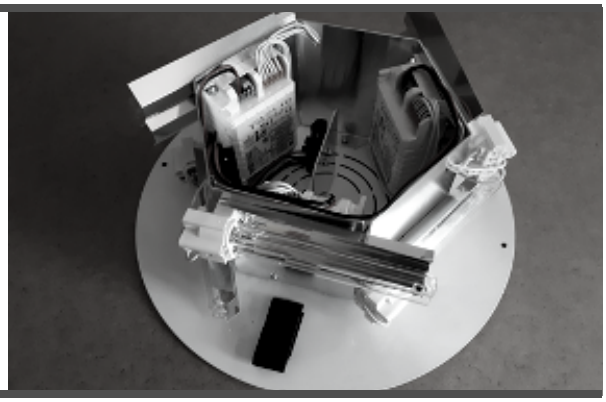
The lamps included in the box can now be fitted as shown aside then the power supply can be re-fitted.



In order to mount the unit the ceiling bracket needs to be attached securely to a ceiling as depicted below. (screwing into a joist or beam where possible)

Care should be taken to ensure the bracket is installed level in both the X and Y axis. (2D Cartesian)

The unit can now be connected to a power source of 230V AC 50Hz.

It is highly recommended that the unit be connected to a dedicated circuit as to facilitate easy isolation if necessary.

When working with ultraviolet light, it's important to take the necessary precautions to avoid injury. UV light can be dangerous to your eyes and skin if not taken seriously. For this reason, all facilities that use UV light should install UV safety signs to alert workers to the procedures they need to follow, and PPE they need to wear to avoid injury. Never look directly into uv light.

WARNING: UVC: is emitted from this product, avoid eye and skin exposure to the unshielded product.
Follow installation instructions and user Manual.

WARNINGS AND SAFETY

DANGER: Each TECHNILAMP* Luminaires are fitted with PHILIPS UV-C lamps. Direct exposure to UV-C can be dangerous and result in a sunburn-like reaction to the skin and serious damage to the cornea. As UV-C is invisible to the eye, the UV-C luminaire must be used and installed in strict accordance with the requirements set forth in the user manual and/or the mounting instructions. TECHNILAMP* UV-C Luminaries must only be sold and installed by nominated Electrical and Air Conditioner Installers, that have been trained according to our stringent safety and legal requirements.

KEY GUIDELINES

TECHNILAMP* Luminaires are not certified or approved as a medical device, locally or globally, and should not be used as such. They should never be used in applications or activities that may cause and or lead to death, personal injury, and or damage to the environment.

DISCLAIMER

The UV-C TECHNILAMP* Luminaire's that are fitted with PHILIPS UV-C lamps, is effective in the deactivation of certain mould, bacteria, viruses, or any foreign pathogens that is explained and referenced by clinical research and data referenced (below (1). TECHNILAMP*, GUVTEC* and PHILIPS do not promise or warrant that the use of the UV-C Luminaire's will protect any user from or prevent infection and/or contamination with any mould, bacteria, viruses, illness, or disease. The UV-C TECHNILAMP* Luminaire's (including PHILIPS lamps) are not approved and/or certified as a medical device by the FDA and/or any other regulatory body. As such, the TECHNILAMP* Luminaire's (PHILIPS lamps) are not intended for and must not be used to disinfect medical devices and/or for medical purposes. In addition to and without limitation of any exclusions or limitations of liability of TECHNILAMP*, GUVTEC* and PHILIPS lamps, as set forth in any agreement for the sale, distribution or otherwise making available of the UV-C TECHNILAMP* Luminaire's (PHILIPS lamps) shall have no responsibility or liability whatsoever for any claim or damage that may arise from or relate to any use of the UV-C upper air devices outside of their intended use or contrary to their installation and operation instructions, each as described in this document, the user manuals and/or the mounting instructions of UV-C TECHNILAMP Luminaires.

The trademark GUVTEC is registered in accordance with the corresponding legal precepts in the name of QUAVEL INVESTMENTS LIMITED. GUVTEC shall not be liable for loss of profit, loss of savings, damage to reputation, loss of goodwill, indirect, incidental, punitive, or consequential damages arising out of regarding the contract or the sale of any products or services by GUVTEC or their use, whether such damages are based on tort, warranty, contract or other legal concepts - even if GUVTEC has been informed or is aware of the possibility of such damages.
Any claim for damages by the Buyer must be made within ninety (90) days from the date of the event giving rise to such claim and any lawsuit arising from such claim must be brought within one year from the date of the claim. Any claim filed or submitted in violation of the preceding sentence shall be null and void.
The limitations and exclusions set forth in this Clause shall apply only to the extent permitted by applicable mandatory law.

IEC 60335-2-65

COMPANY INFORMATION

TECHNILAMP* part of the BIDVEST Group, South Africa
GUVTEC* part of QUAVEL Investments LTD.
Reg No 577356, (QUAVEL) ; 677556 (GUVTEC) VAT 3414804FH DUBLIN
CONTACT; (353) 1 442 8588
EMAIL: Info@guvtec.com
WEBSITE: www.guvtec.com