Horticulture
LED Vapor Tight
Product Specifications

The TCP LED HVT Series Horticulture Vapor Tight features a lightweight 4FT design to support both the flowering and growth stages of plant development. This durable, 45° C rated fixture efficiently delivers up to 289 µmol/s of photosynthetic photon flux while maximizing energy savings due to an efficacy of up to 2.71 µmol/J. The long 50,000 hour rated life significantly decreases maintenance, labor, and material costs over the life of the fixture.

Reasons to choose the LED HVT Series Vapor Tight from TCP

- High efficacy: up to 2.71 µmol/J
- Powerful 289 µmol/s photosynthetic photon flux
- Instant-on, no warm up time for full light
- Long-life: 50,000 hours

- Durable light weight plastic housing
- IP65 rating prevents dirt and grime build up behind fixture lens
- Factory installed SmartStuff SmartBox option

Ideal Applications:

- T5 & T8 Grow Light Replacements
- High Pressure Sodium Replacements
- Metal Halide Replacements

- Vertical Farms
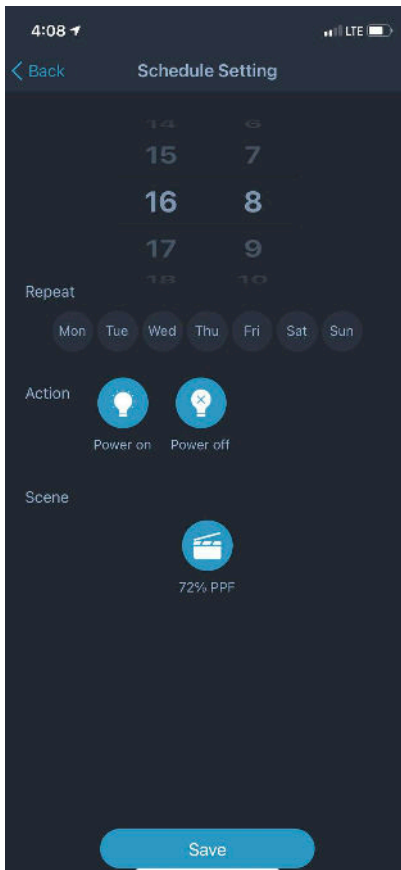- Grow Tents
- Supplemental Growth Lighting

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Specifications

Input Line Voltage ....120-277 VAC
Input Line Frequency (Hz)...50/60HZ
Wattage (W)..100W
Photosynthetic Photon Efficacy (PPF)...........................≤2.71 µmol/J
Rated Life.. 50,000 hours
Minimum Starting Temperature ....-40°C (-40°F)
Maximum Operating Temperature.............................. 45°C(113°F)
Power Factor .... >0.90
THD... <20%
Ratings .... cULus wet location rated, IP65
Controls... 0-10V dimming (standard)
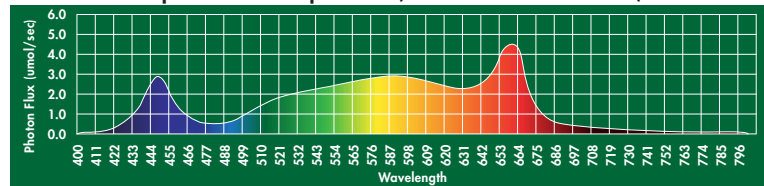
The Power of TCP SmartStuff

- Easily schedule day and night cycles.
- Save multiple scenes to your account to provide the optimum PPFD levels for each plant type. No need to adjust your light mounting height.
- Factory installed, no need for expensive control wiring.
- Bluetooth controlled, no WiFi required.
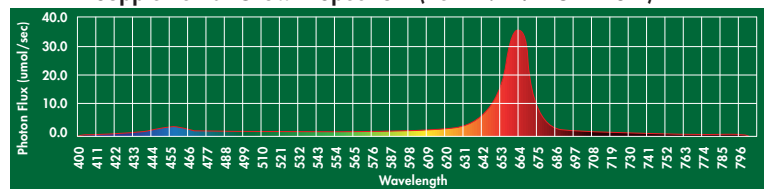- Safe and secure. Lights are locked into your account once programed.

Available Spectrums:

All Purpose Growth Spectrum (Item #: HVT4UZDA3VG)

ITEMS	MEASURED VALUE	UNIT
PPF (400-700nm)	191.18	µmol/s
PPF (400-500nm)	46.16	µmol/s
PPF (500-600nm)	65.61	µmol/s
PPF (600-700nm)	80.52	µmol/s
PPE	1.92	µmol/J
PF$_{FR}$	3.10	µmol/s

Supplemental Growth Spectrum (Item #: HVT4UZDA3FL)

ITEMS	MEASURED VALUE	UNIT
PPF (400-700nm)	289.34	µmol/s
PPF (400-500nm)	19.14	µmol/s
PPF (500-600nm)	7.09	µmol/s
PPF (600-700nm)	263.27	µmol/s
PPE	2.71	µmol/J
PF$_{FR}$	1.16	µmol/s

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Applications

The TCP LED HVT Series Horticulture Vapor Tight is a low cost option for mid-level to commercial horticulture applications. Benefits include high efficiency, up to 289 μmol/s of photosynthetic photon flux, long-life, instant-on, and a simple 4FT vapor tight design that can be used in a variety of horticulture lighting applications.

Construction

- Durable, light weight plastic body
- Clear polycarbonate lens
- 4' length provides a large swathe of PPFD

Electrical

- cULus wet location rated
- 0-10V dimming driver (standard)
- Easy-to-access wiring compartment
- System rated for long 50,000 hour life
- Efficiently delivers up to 2.71 μmol/J

Optics

- High impact, clear acrylic lens comes standard to protect the LEDs and minimize glare

Item Number	
Notes	Type

Listings

UL/cUL Listed
RoHS Compliant

Warranty

Five year limited warranty against defects in manufacturing.

Catalog Ordering Matrix   Example: HVT4UZDA3VG

HVT	4	U	ZD	A3			
FAMILY	**LENGTH**	**VOLTAGE**	**CONTROLS/DIMMING**	**WATTAGE¹**	**SPECTRUM**	**FACTORY INSTALLED OPTIONS**	**POWER CORD OPTION**
HVT – Horticultural Vapor Tight	**4** – 4FT	**U** – 120-277V	**ZD** – 0-10V Dimming	**A3** – 100W	**VG** – All Purpose Growth **FL** – Supplemental Growth	Blank - No SmartBox	Blank - No Cord, Direct Wire

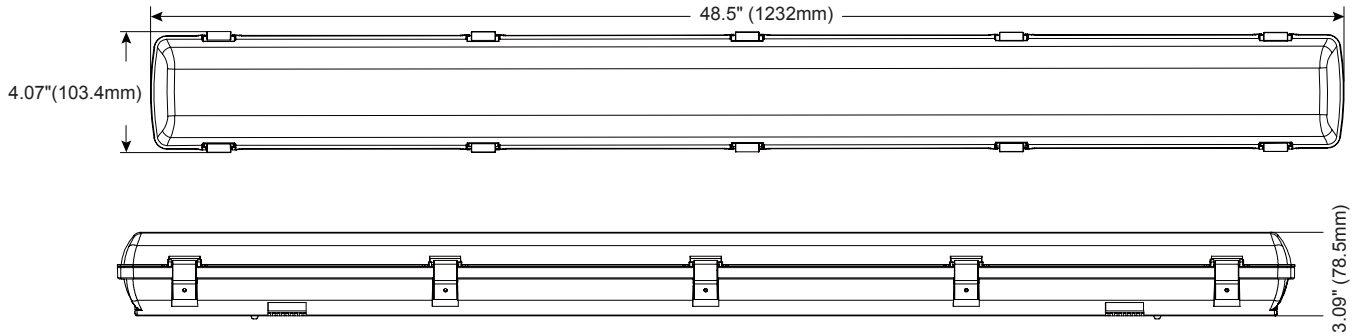¹ Actual wattage may differ by +/- 10%

Field Installed Accessories

ITEM NUMBER	DESCRIPTION
EZHANGER	10FT Cable Hanging Kit (1 kit needed per unit)

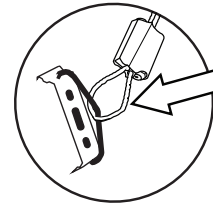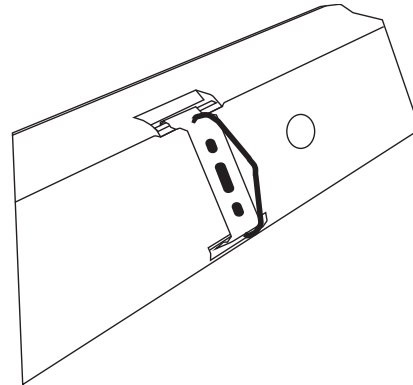For the most up-to-date specs and warranty information, please visit www.tcpi.com

FC **RoHS** COMPLIANT c(UL)us LISTED IP65 RATED 5 YEAR WARRANTY

Product Dimensions:

48.5" (1232mm)
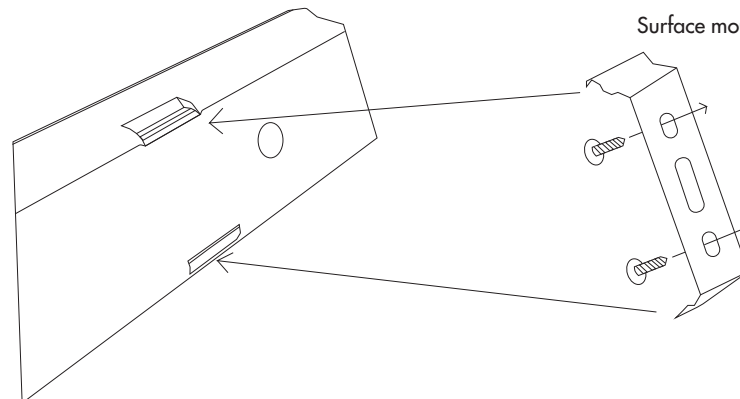
4.07"(103.4mm)

3.09" (78.5mm)

Product Installation:

Hang Installation:

EZHANGER add on accessory shown

Surface Mount Installation:

Surface mount clip included standard in box

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TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 30 years, TCP has been designing, developing and delivering energy-efficient lighting into the market. Thanks to our cutting-edge technology and manufacturing expertise, we have shipped billions of high quality lighting products. With TCP, you can count on a lighting product that is designed to meet the needs of the market - that transforms your surroundings and envelopes you in warmth - lighting that generates beauty with every flip of the switch.

Sales:

Date:

Model:

Project:

Rep:

Catalog Number:

Type:

Notes:

TCP®
we know light.™