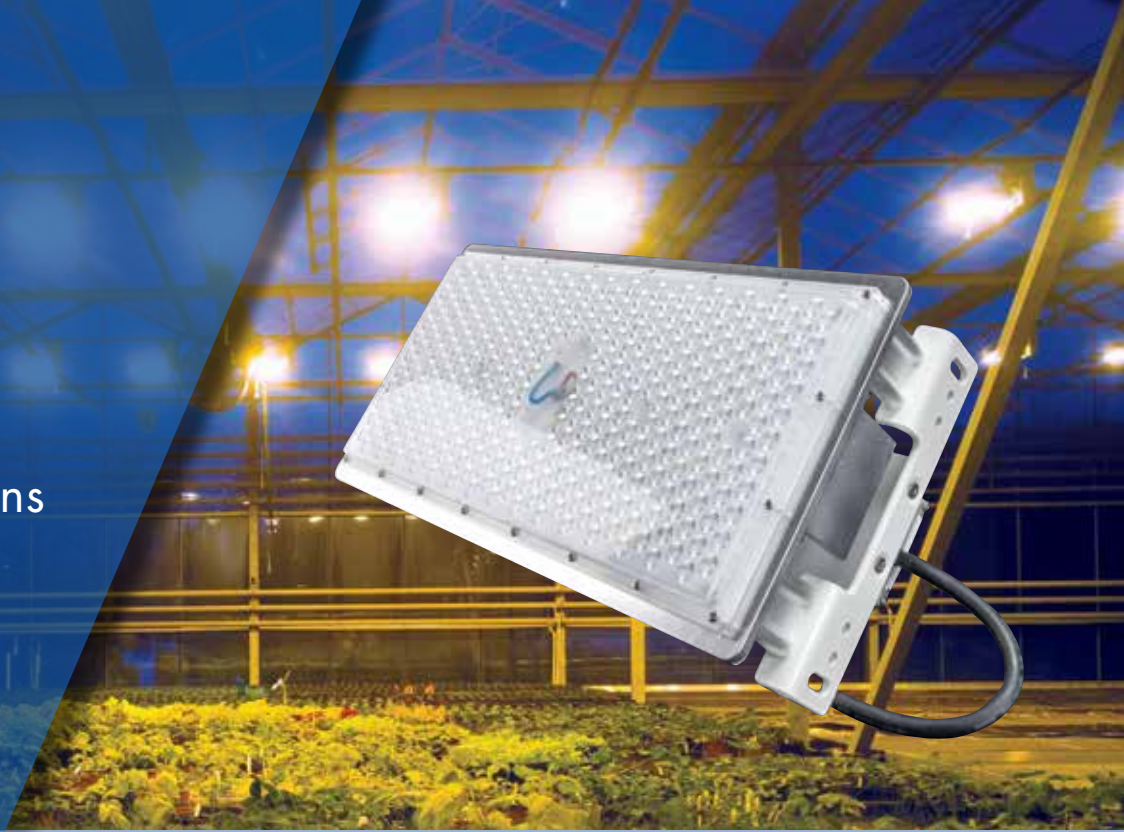




# Horticulture LED Top Light

## Product Specifications



The TCP LED HT Series Horticulture Top Light features a lightweight, customizable design to support both the flowering and growth stages of plant development. This durable, 50° C rated, fixture efficiently delivers up to 916  $\mu\text{mol/s}$  of photosynthetic photon flux while maximizing energy savings due to an efficacy of up to 3.56  $\mu\text{mol/J}$ . 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 HT Series Horticulture Top Light from TCP

- Modular design allows for limitless customization
- Industry leading efficacy: up to 3.56  $\mu\text{mol/J}$
- Powerful 916  $\mu\text{mol/s}$  photosynthetic photon flux
- Instant on, no warm up time for full light
- Long life: 50,000 hours
- Durable, lightweight aluminum housing
- IP66 rating prevents dirt and grime buildup behind fixture lens

## Ideal Applications

- Greenhouses
- Indoor Grow Facilities
- Grow Tents
- Metal Halide Replacements
- High Pressure Sodium Replacements



## Specifications

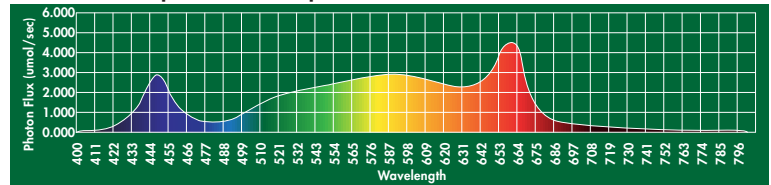
Input Line Voltage .....	120-277 VAC
Input Line Frequency (Hz).....	50/60HZ
Wattage (W).....	250W
Photosynthetic Photon Efficacy.....	>3.56 $\mu\text{mol}/\text{J}$
Rated Life.....	50,000 hours
Minimum Starting Temperature .....	-40°C (-40°F)
Maximum Operating Temperature.....	50°C (122°F*)
Power Factor .....	>0.90
THD.....	<20%
Ratings .....	cULus wet location rated, IP66
Controls.....	0-10V dimming (standard)

\*Maximum Operating Temperature decreases to 40°C when additional units are assembled together



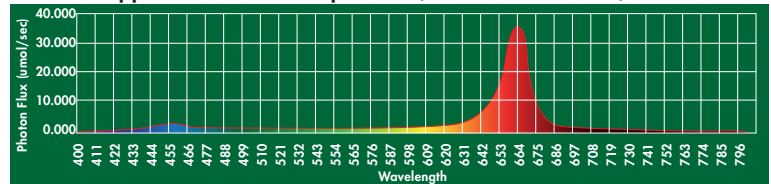
## Available Spectrums:

All Purpose Growth Spectrum (Item #: HTUZDA4VG)



ITEMS	MEASURED VALUE	UNIT
PPF (400-700nm)	516.56	$\mu\text{mol}/\text{s}$
PPF (400-500nm)	85.41	$\mu\text{mol}/\text{s}$
PPF (500-600nm)	218.82	$\mu\text{mol}/\text{s}$
PPF (600-700nm)	215.89	$\mu\text{mol}/\text{s}$
PPE	2.09	$\mu\text{mol}/\text{J}$
PF <sub>rr</sub>	7.10	$\mu\text{mol}/\text{s}$
YPF	457.85	$\mu\text{mol}/\text{s}$

Supplemental Growth Spectrum (Item #: HTUZDA4FL)



ITEMS	MEASURED VALUE	UNIT
PPF (400-700nm)	916.51	$\mu\text{mol}/\text{s}$
PPF (400-500nm)	50.03	$\mu\text{mol}/\text{s}$
PPF (500-600nm)	13.88	$\mu\text{mol}/\text{s}$
PPF (600-700nm)	852.92	$\mu\text{mol}/\text{s}$
PPE	3.56	$\mu\text{mol}/\text{J}$
PF <sub>rr</sub>	2.33	$\mu\text{mol}/\text{s}$
YPF	844.56	$\mu\text{mol}/\text{s}$

## Applications

The TCP LED HT Series Horticulture Top Light is ideal for replacing traditional metal halide high bay systems in commercial horticulture applications. Benefits include high efficiency, up to 916  $\mu\text{mol/s}$  of photosynthetic photon flux, long life, instant on, and a modular design that will satisfy the most complex of horticulture lighting applications.

## Construction

- Durable, lightweight aluminum body
- Finish: powder coated, post-painted white
- Modular design: unlimited lighting design solutions
- Lightweight, low-profile design

## 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  $>3.56 \mu\text{mol/J}$

## Optics

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



### Listings

UL/cUL Listed  
RoHS Compliant  
DLC Hort 1.2

### Warranty

Five year limited warranty against defects in manufacturing.\*

\*Warranty is valid when operating in ambient temperatures below 122°F/50°C for one single fixture. Warrantied maximum operating temp drops to 104°F/40°C when 2 or 3 three fixtures are assembled together.

## Catalog Ordering Matrix Example: HTUZDA4VG

HT		ZD	A4	
FAMILY	VOLTAGE	CONTROLS/DIMMING	WATTAGE <sup>1</sup>	SPECTRUM
HT – Horticultural Top Light	U – 120-277V	ZD – 0-10V Dimming	A4 – 250W	VG – All Purpose Growth FL – Supplemental Growth

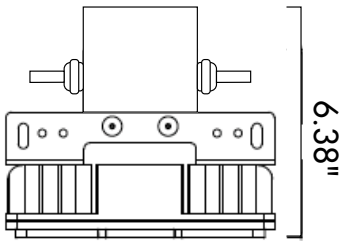
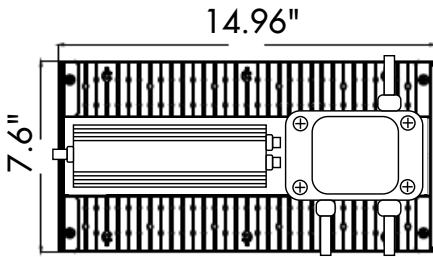
<sup>1</sup> Actual wattage may differ by +/- 10%

### Field Installed Accessories:

Item Number	Description
HTPTBAG	Parts bag for modular assembly (1 parts bag needed per assembled fixture. example: (2) units assembled = (1) HTPTBAG, (3) units assembled = (2) HTPTBAG)
EXPYHANGKIT10FT	100lb rated cable Y-hook hanging kit (1 kit needed per fixture)

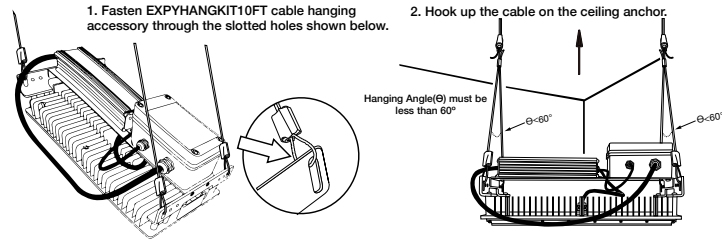
For the most up-to-date specs and warranty information, please visit [www.tcp.com](http://www.tcp.com)

## Product Dimensions:

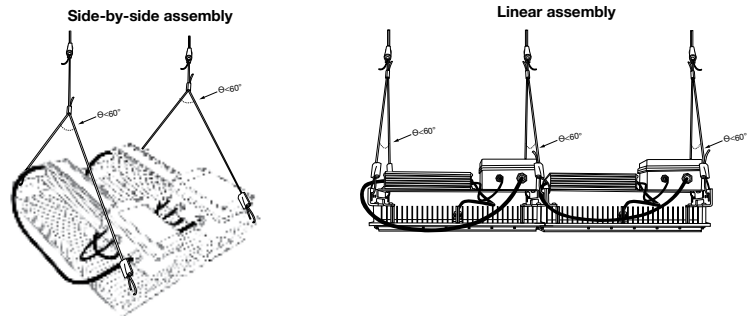


Weight: 9.8lbs

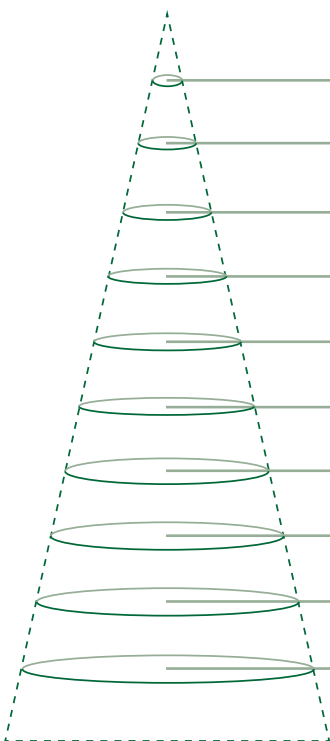
## Mounting Details



## Modular Assembly



## Photosynthetic Photon Flux Density



MOUNTING HEIGHT (FT)	HTUZDA4VG			HTUZDA4FL		
	Coverage Diameter (Ft)	Average PPFD ( $\mu\text{mol/s/m}^2$ )	Nadir PPFD ( $\mu\text{mol/s/m}^2$ )	COVERAGE DIAMETER (FT)	Average PPFD ( $\mu\text{mol/s/m}^2$ )	Nadir PPFD ( $\mu\text{mol/s/m}^2$ )
0.5	0.7	7687	14530	0.9	11141	24050
1.0	1.4	1922	3633	1.7	2785	6013
1.5	2.1	854	1614	2.6	1238	2672
2.0	2.8	480	908	3.4	696	1503
2.5	3.5	307	581	4.3	446	962
3.0	4.2	214	404	5.2	309	668
3.5	5.0	157	297	6.0	227	491
4.0	5.6	120	227	6.9	174	376
4.5	6.4	95	179	7.7	138	297
5.0	7.1	77	145	8.6	108	241

# TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 20 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:



For more information on the quality and care TCP can deliver, call us at **800.324.1496** or visit [tcp.com](http://tcp.com)

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