HTM Series Horticulture Top Light
Product Specifications

The TCP HTM Series Horticulture Top Light features a lightweight design that supports flowering and growth stages of plant development. A single unit of this durable, 55° C rated fixture efficiently delivers up to 612 μmol/s of photosynthetic photon flux while maximizing energy savings due to an efficacy of up to 2.60 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 HTM Series Horticulture Top Light from TCP

- Industry-leading efficacy: up to 2.60 μmol/J
- Powerful 612 μmol/s photosynthetic photon flux
- Instant on, no warm up time for full light

- Long life: 50,000 hours
- Durable, lightweight aluminum housing
- Power washer rated IP66 wet location rating

Ideal Applications

- Greenhouses
- Indoor Grow Facilities
- Grow Tents

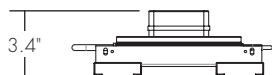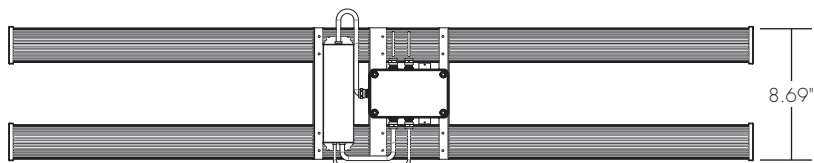- High Pressure Sodium Replacements
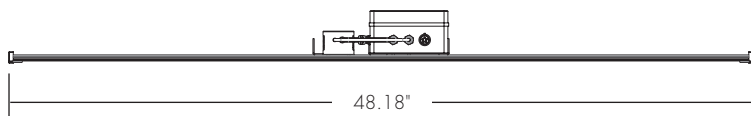- Metal Halide Replacements

DLC HORT LISTED   FC   RoHS COMPLIANT   ETL LISTED c us Intertek   IP66 RATED   5 YEAR WARRANTY

Specifications

Input Line Voltage ....120-277 VAC
Input Line Frequency (Hz)..50/60Hz
Wattage (W)..236W
Photosynthetic Photon Flux (PPF) ....612 µmol/s
Photosynthetic Photon Efficacy (PPE)...........................≤ 2.60 µmol/J
Fixture Heat Output* .... 805 BTU/hr
Rated Life..50,000 hours
Minimum Starting Temperature ....-40°C (-40°F)
Maximum Operating Temperature............................. 55°C (131°F)
Power Factor ....>0.90
THD...<20%
Ratings .... cETLus Rated, cULus wet location rated, IP66
Controls... 0-10V dimming (standard)
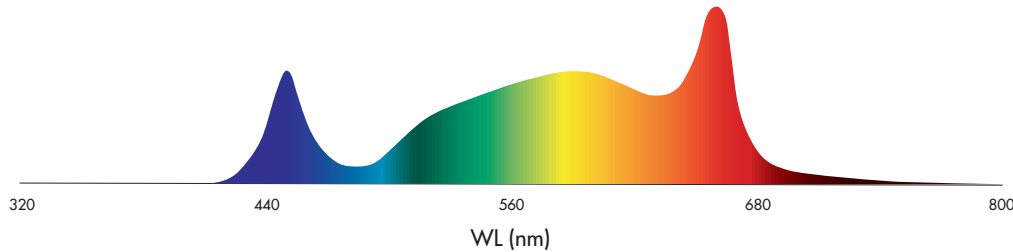*Heat Output Calculation: Unit Wattage * 3.412

Dimensions

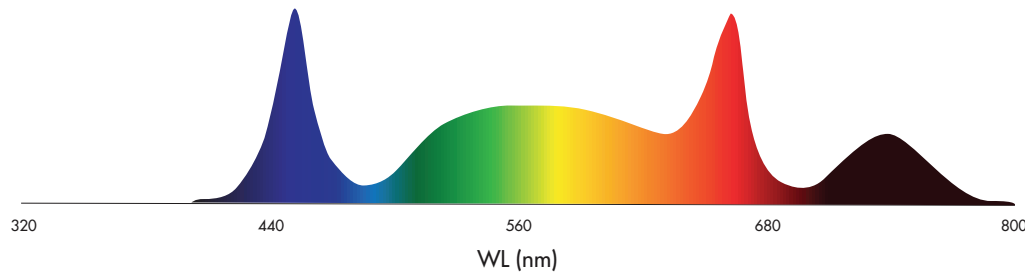48.18"

8.69"

3.4"

Weight = 6.45 lbs

TCP Full Spectrum Technology

TCP's full spectrum technology provides a balanced blend of blue, green, and red light to ensure plants grow healthy and strong. The substantial red peak at 660nm results in a robust photosynthesis contribution. A blue peak shown at 440nm reduces unwanted stem elongation and leads to strong, healthy, and compact plants. Lastly, TCP's full spectrum includes a stable amount of green light, removing any need for green supplemental lighting when checking plant health.

ITEMS	MEASURED VALUE	UNIT
PPF (400-700nm)	611.92	μmol/s
PPF (400-500nm)	110.29	μmol/s
PPF (500-600nm)	236.96	μmol/s
PPF (600-700nm)	268.04	μmol/s
PPF (600-750nm)	278.25	μmol/s
Photon Flux (380-780nm)	624.65	μmol/s
PFFR (700-800nm)	12.62	μmol/s
PPE	2.60	μmol/J

TCP Far-Red Spectrum Technology

TCP's far-red full spectrum takes all the great qualities of our traditional full spectrum but adds far-red photons for some extra photosynthetic encouragement! Far-red photons have little to no effect on plants when they're used by themselves. However, when plants are grown underneath a full spectrum light that's paired with an additional, supplemental far-red spectrum, their photosynthetic rate is higher than when they are grown using just a full spectrum light.

ITEMS	MEASURED VALUE	UNIT
PPF (400-700nm)	526.90	μmol/s
PPF (400-500nm)	89.23	μmol/s
PPF (600-700nm)	233.90	μmol/s
PPF (600-750nm)	310.26	μmol/s
Photon Flux (380-780)	631.80	μmol/s
PPFR (700-800)	104.93	μmol/s

HTM Series Horticulture Top Light

Photosynthetic Photon Flux Density

Test Conditions:
– 5.5' X 5' X 5.75' Grow Tent (L X W X H)
– Single HTMUZDA3S1 Unit hung at 4" and 6" above sensing surface

4" Mounting Height from Sensing Surface
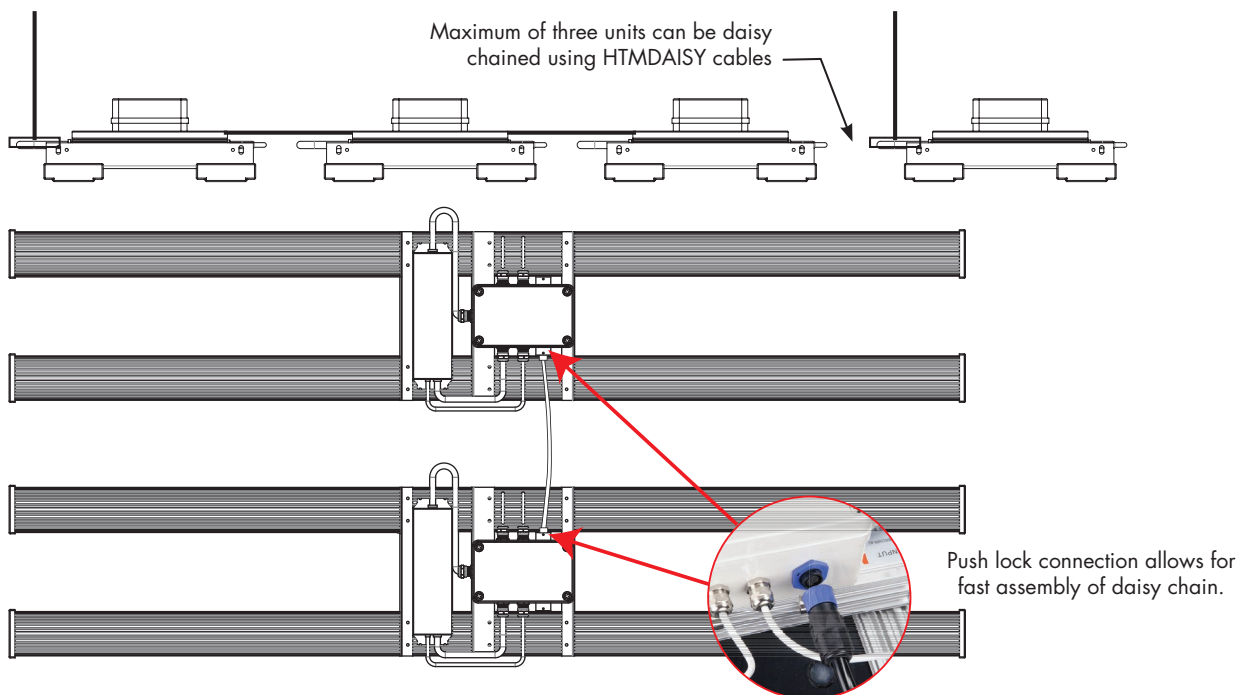6" Mounting Height from Sensing Surface

113 / 116	109 / 114	108 / 118	109 / 142	163 / 343	163 / 343	223 / 364	108 / 140	113 / 124	111 / 125	114 / 121
109 / 115	109 / 119	110 / 117	109 / 180	717 / 755	858 / 1029	1230 / 920	118 / 190	114 / 122	115 / 127	115 / 122
112 / 118	114 / 118	112 / 116	114 / 209	1305 / 969	1287 / 1207	700 / 757	116 / 220	119 / 121	118 / 122	118 / 121
118 / 122	114 / 122	114 / 125	114 / 269	1305 / 1060	1287 / 1348	700 / 766	116 / 193	128 / 259	119 / 124	118 / 127
112 / 119	112 / 121	110 / 126	114 / 250	993 / 945	1419 / 1446	810 / 1158	128 / 259	118 / 124	116 / 127	120 / 133
115 / 121	112 / 121	111 / 123	132 / 267	1214 / 1143	1413 / 1506	938 / 1039	143 / 245	117 / 124	114 / 124	121 / 130
114 / 116	116 / 117	113 / 119	143 / 258	1589 / 1417	1496 / 1550	1330 / 1271	125 / 237	120 / 123	123 / 123	126 / 123
113 / 115	114 / 115	112 / 128	114 / 248	1082 / 1037	1445 / 1426	1187 / 1144	135 / 207	114 / 222	112 / 119	117 / 116
115 / 114	116 / 113	116 / 123	116 / 194	309 / 438	471 / 522	976 / 1032	130 / 159	118 / 120	122 / 119	120 / 114
107 / 106	114 / 113	113 / 113	109 / 118	108 / 166	113 / 206	112 / 167	109 / 136	109 / 114	109 / 115	114 / 120

4" Average PPFD: 329 µmold/s/m^2
6" Average PPFD: 355 µmol/s/m^2

*data at other heights available upon request

TCP Quick Connect Daisy Chain System

Maximum of three units can be daisy chained using HTMDAISY cables

Push lock connection allows for fast assembly of daisy chain.

DLC LISTED | FC | RoHS COMPLIANT | ETL Intertek | IP66 RATED | 5 YEAR WARRANTY
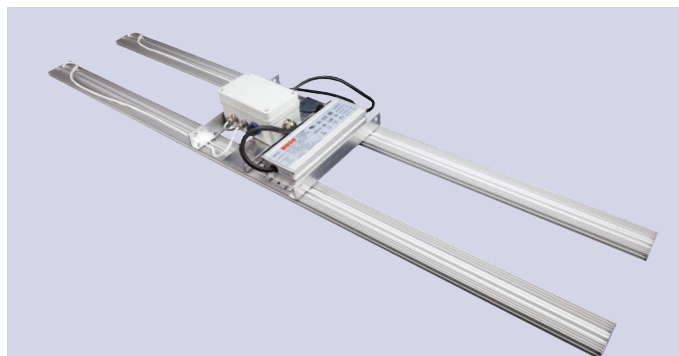
Applications

The TCP LED HTM Series Horticulture Top Light is ideal for replacing traditional metal halide high bay systems in commercial horticulture applications. Benefits include high efficiency, up to 612 μmol/s of photosynthetic photon flux, long life, instant on, and a quick connect daisy chain ready design that will satisfy the most complex of horticulture lighting applications.

Construction

- Durable, lightweight aluminum body
- Corrosion-resistant material composition
- Quick connect daisy chain ready
- Lightweight, low-profile design
- 6FT 5-wire power cord comes standard

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 ≤ 2.60 μmol/J

Listings

cETLus Listed
RoHS Compliant
DLC Hort 2.1

Wet Location Rated – IP66

Warranty

Five year limited warranty against defects in manufacturing.

Power washer rated TCP IP66 clear coat allows for fast cleaning of LEDs.

Catalog Ordering Matrix   Example: HTMUZDA3S1

HTM	U	ZD	A3	S1
FAMILY	**VOLTAGE**	**CONTROLS**	**PHOTOSYNTHETIC FLUX (POWER)[1,2]**	**SPECTRUM**
HTM – Horticulture Top Light	**U** – 120-277V	**ZD** – 0-10V Dimming	**A3** – 612 μmol/s (236W)	**S1** – Full Spectrum

[1] Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.
[2] Actual wattage may differ by +/- 10%

Field Installed Accessories:

Item Number	Description
HTMDAISY2FT	2FT daisy chain 5-wire power cord.
HTMDAISY6FT	6FT daisy chain 5-wire power cord.

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

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.