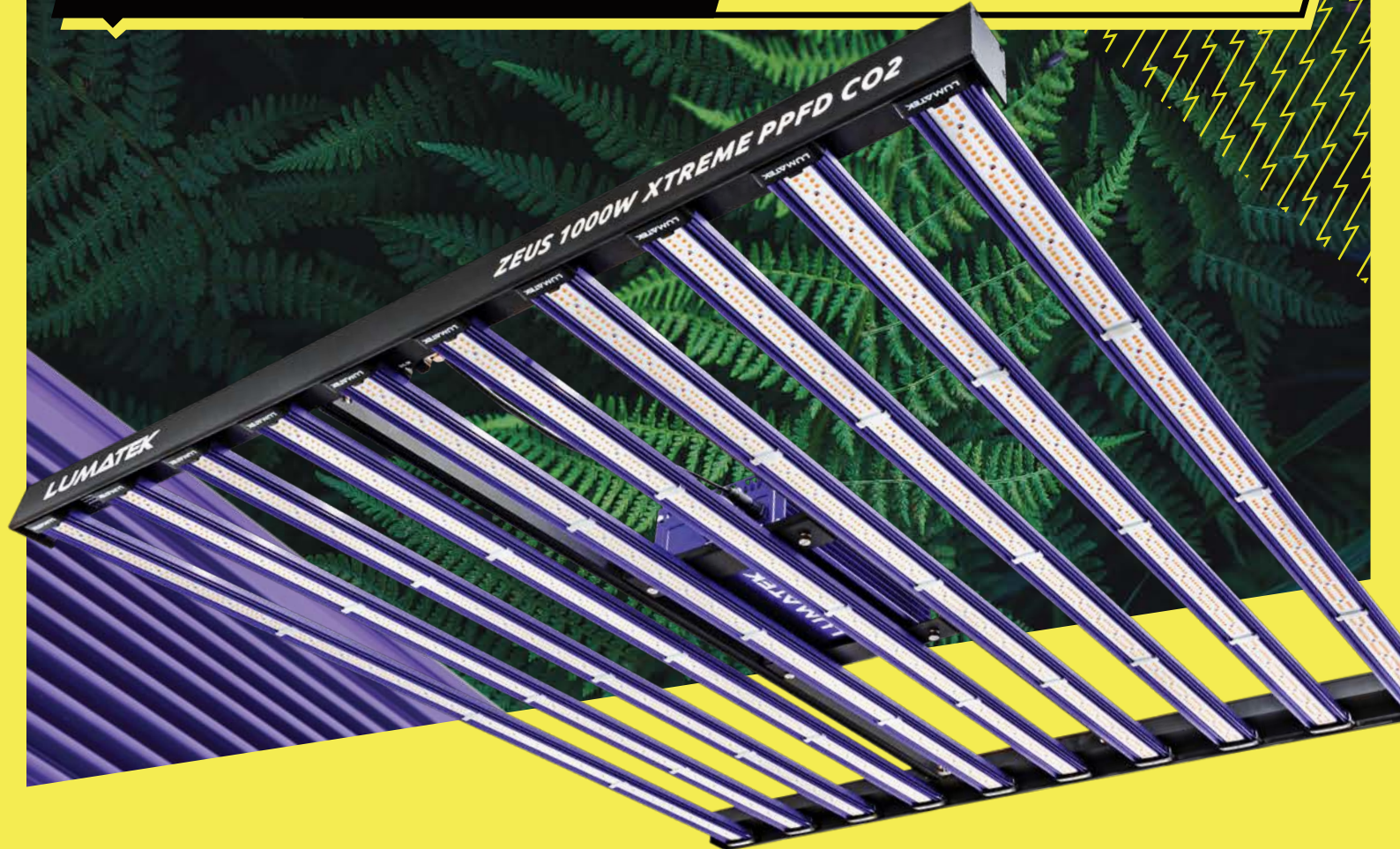


# LUMATEK

PROFESSIONAL LIGHTING

## ZEUS 1000W XTREME PPFD CO2



The Zeus 1000W Xtreme PPFD CO2 is a very high performance full-cycle LED solution for commercial and hobby horticulture cultivation, with the power and flexibility to scale from vegetative growth to higher light intensities in bloom. Designed for 1.5x1.5m coverage with Supplemental CO2 or 1.8x1.8m without this supplementation and placed at higher heights.

2.9  $\mu\text{mol}/\text{J}$

2925  $\mu\text{mol}/\text{s}$  total output

Full-Spectrum

2.9 EFFICACY  
 $\mu\text{mol}/\text{s}/\text{J}$

2925 PPF  
 $\mu\text{mol}/\text{s}$



# ZEUS 1000W XTREME PPFD CO2

**PRODUCT CODE** LUMLED003

**EFFICACY** 2.9  $\mu\text{mol/J}$

**PPF** 2925  $\mu\text{mol/s}$

**INPUT VOLTAGE** 220-240V, 50-60Hz

**INPUT POWER** 1025W (100% 230V); 988W (100% 240V)

**FOOTPRINT** 1.5x1.5m with Supp. CO2; 1.8x1.8m without Supp. CO2 used at higher heights.

**CO2 SUPPLEMENTAL:** 1:1 Ratio CO2 PPM should be added once a PPFD of 1000  $\mu\text{mol/s/m}^2$  is exceeded

**APPLICATION** Multi-layer, Room, Tent

**WATERPROOF & DUSTPROOF** IP65

**LIFETIME (LED BARS)** 60 000 hrs

**LIGHT DISTRIBUTION** 120°

**LIGHT SOURCE** 4000K White Diodes Lumileds 3030 HE Plus; 660nm Red Diodes Osram SQ3.24

**CTT** 3800K

**QUANTITY OF LED BARS** 10

**QUANTITY OF DIODES TOTAL** White 2880; Red 240

**QUANTITY OF DIODES PER LED BAR** White 280; Red 24 DIODES

**DIODES POWER PORPORTION:** White 82%, Red 18%

**DIODES EFFICIENCY** White Lumileds 3030 HE Plus 2.9  $\mu\text{mol/J}$ ; Red Osram SQ3.24 3.8  $\mu\text{mol/J}$

**DIMMABLE** OFF-25%-50%-75%-100% with 0-10V Light Dimmer (Included)

**EXTERNAL CONTROL** With Lumatek Digital Panel Plus 2.0 (Up to 100 fixtures)

**WEIGHT** 18 Kg

**DIMENSIONS** 1181.2x1091x105.7mm

**SPECTRUM** Full Spectrum F

**THERMAL MANAGEMENT** Passive cooling

**POWER FACTOR** 0.95

**DRIVER LOCATION** Fixed in structure or detachable for remote use (Extension Cables Sold Separately)

**MAX. AMBIENT TEMPERATURE (@1000W POWER)** 25°C

**BTU (WITH DRIVER ATTACHED)** 3497

**BTU (WITHOUT DRIVER)** 3180

**WARRANTY** 5 Years

**CERTIFICATIONS** IP65, Rohs Directive 2011/65/EU And (EU)2015/863

LED Fixture: CE Safety Standard: EN 60598-1:2015+A1:2018, EN 60598-2-1:1989, EN 62031:2020, EN 62493:2015, EN 62471:2008; CE EMC Standard: EN 55015:2019, EN 61547:2009, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019 LED Driver: : CE Safety Standard: EN 60598-1:2015+A1:2018, EN 60598-2-1:1989, EN 62031:2020, EN 62493:2015, EN

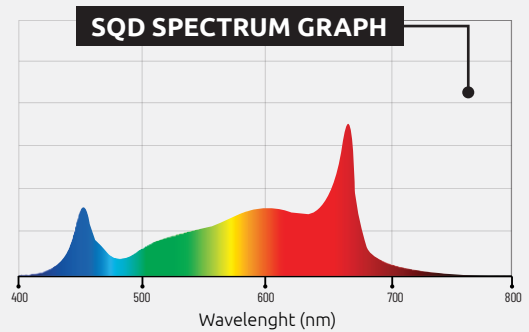
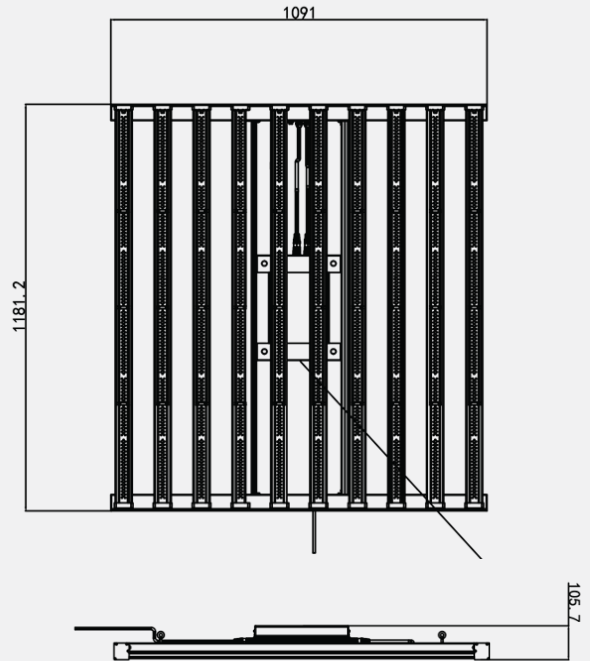
## INPUT CURRENT (A/W) PER DIMMING RANGE

### @ 240V

DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	988	4.28
75%	753	3.29
50%	494	2.22
25%	250	1.25

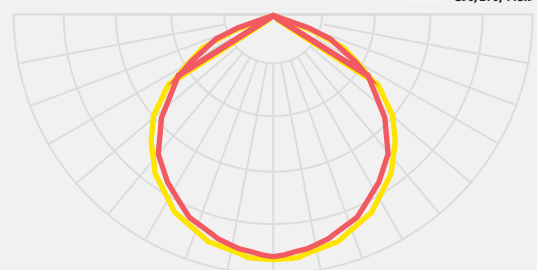
### @ 230V

DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	1021	4.62
75%	782	3.61
50%	512	2.45
25%	251	1.83



## DISTRIBUTION CURVE FLUX

AVERAGE BEAM ANGLE (50%) : 114.4 DEG



## EXTERNAL CONTROL

The Zeus fixture can also be externally controlled with a Lumatek digital lighting controller (Digital Panel Plus 2.0) featuring light timing, automated dimming (1% increments), temperature safety control, Sunrise & Sunset Mode for up to 100 fixtures per controller



### ITEMS INCLUDED IN THE BOX:

- 10 x Lumatek 100W Pro 2.9 Full-Spectrum Magnet Light Bars
- 1 x Lumatek 1000W Xtreme Pro Driver with Connecting Cables
- 1 x LED Structure with Connecting Cables
- 1 x 0-10V Light Dimmer + Velcro
- 2 x Metal Cable Hangers
- 1 x Manual

## PPFD: PHOTOSYNTHETIC PHOTON FLUX DENSITY ( $\mu\text{mol}/\text{m}^2/\text{s}$ )

### FACTORS THAT CAN INFLUENCE PPFD TESTS

- TEST EQUIPMENT.
- LAMP BEADS DEVIATION
- AMBIENT TEMPERATURE DEVIATION
- PC COVER TRANSMITTANCE DEVIATION
- POWER SOURCE EFFICIENCY DEVIATION
- REFLECTION CONSIDERED OR NOT

### RECOMMENDED PPFD ( $\mu\text{mol}/\text{m}^2/\text{s}$ )

PLANT	SEED	CLONES	VEGETATIVE	FLOWERING
CANNABIS	100-300	75-150	300-550	650+
TOMATOES	150-350	75-150	350-550	650+
CUCUMBERS	100-300	--	300-550	650+
PEPPERS	150-350	--	300-550	650+

### LUMATEK ZEUS 1000W XTREME PPFD CO<sub>2</sub> PPFD MAPS

TEST AREA 1.5M x 1.5M

TEST POINTS 100

TEST EQUIPMENT INTEGRATING 2 METER SPHERE & EVERFINE PLA20

AMBIENT TEMPERATURE 25°

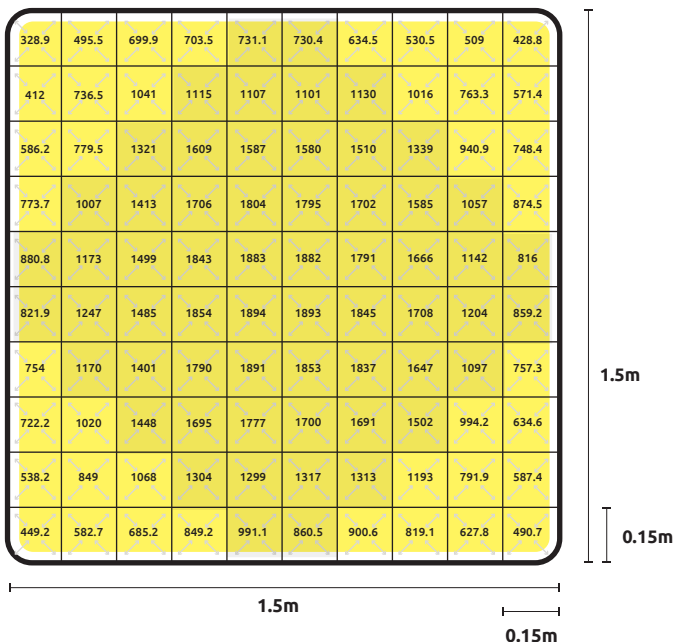
HEIGHT FROM CANOPY 30CM, 40CM, 52CM, 100CM, 150CM

REFLECTION 0%

### PRIMARY TESTS WITH 10 BARS AT 100% POWER

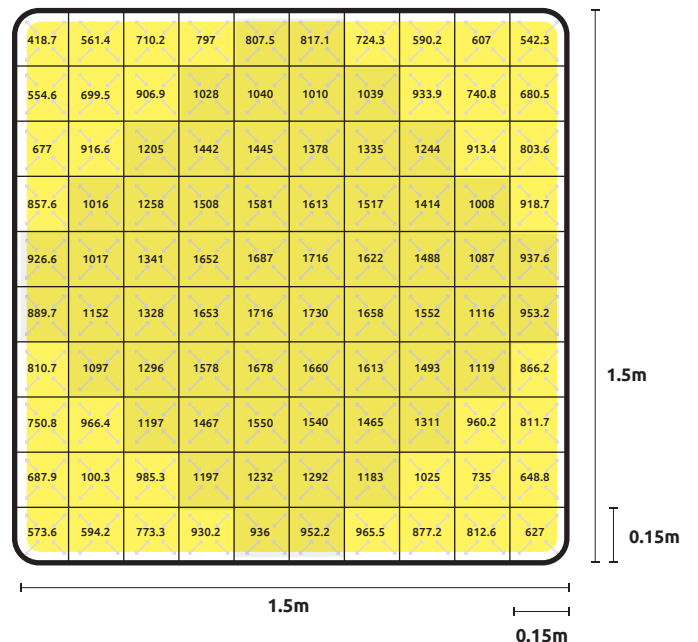
HEIGHT TO TEST POINT 30cm

CANOPY AVERAGE PPFD 1148  $\mu\text{mol}/\text{s}/\text{m}^2$

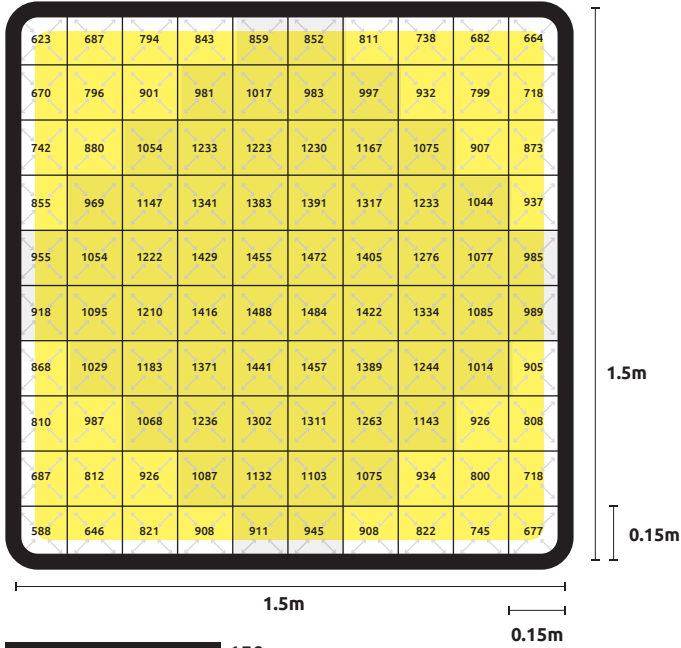


HEIGHT TO TEST POINT 40cm

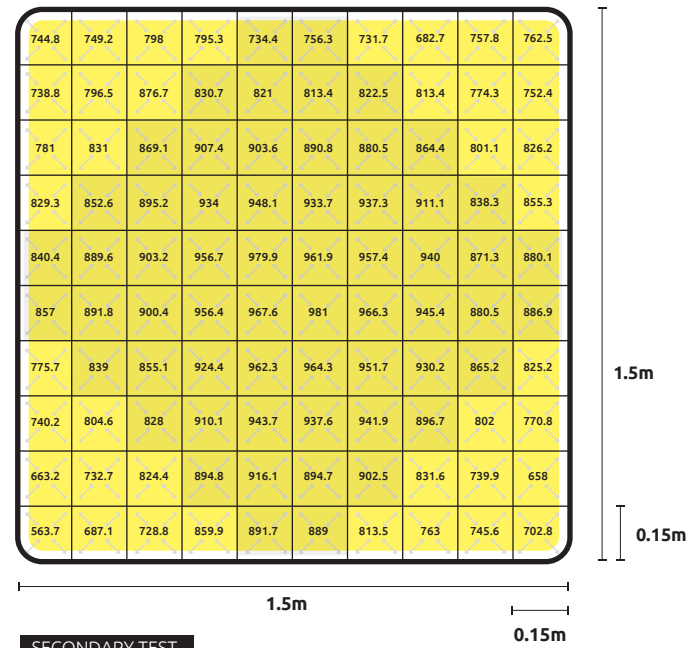
CANOPY AVERAGE PPFD 1095.4  $\mu\text{mol}/\text{s}/\text{m}^2$



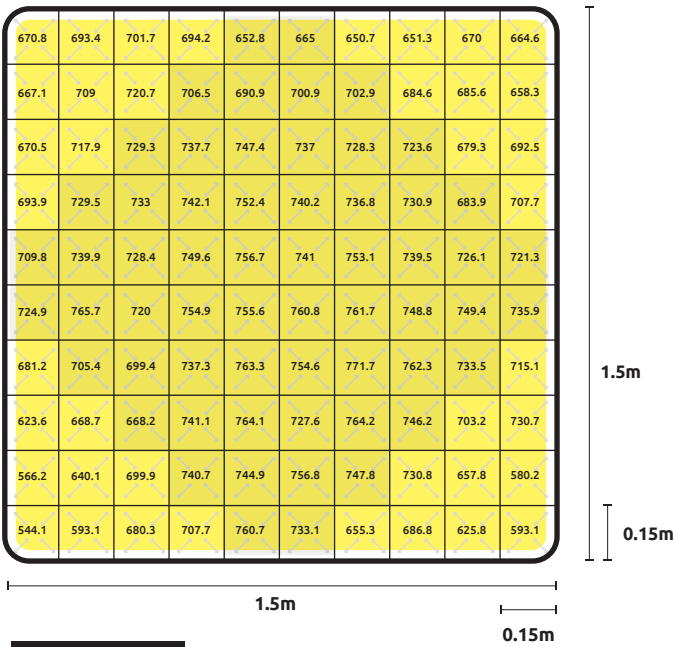
**HEIGHT TO TEST POINT** 52cm  
**CANOPY AVERAGE PPF** 1031.2  $\mu\text{mol/s/m}^2$



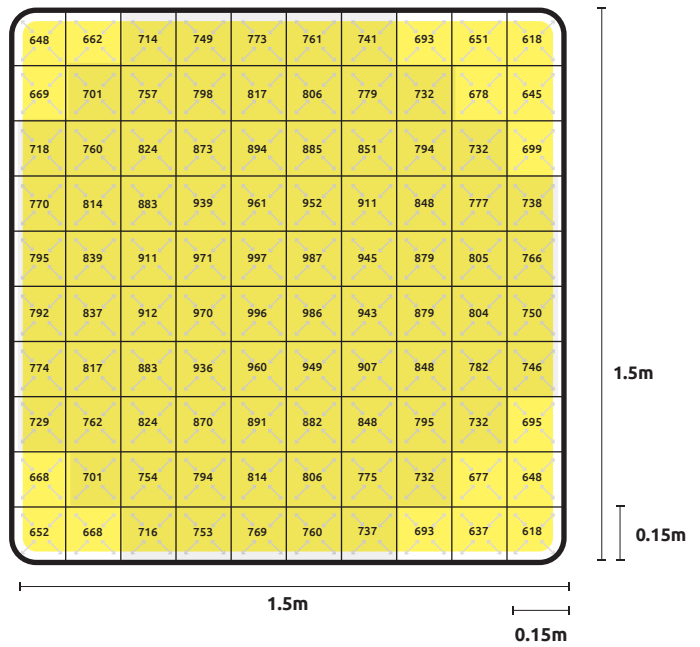
**HEIGHT TO TEST POINT** 100cm  
**CANOPY AVERAGE PPF** 846.3  $\mu\text{mol/s/m}^2$



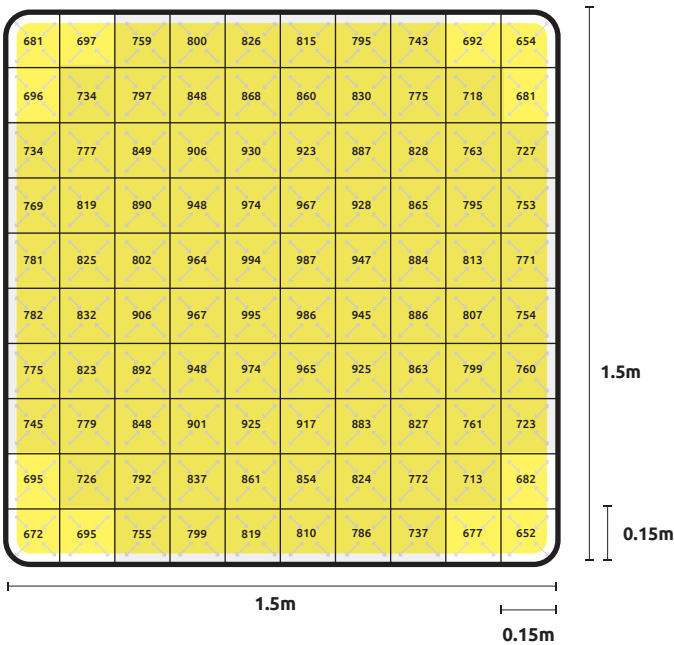
**HEIGHT TO TEST POINT** 150cm  
**CANOPY AVERAGE PPF** 708  $\mu\text{mol/s/m}^2$



**SECONDARY TEST**  
 • 10 Bars at 75% Power  
 • 67cm Height to Test Point  
 • Max 1000  $\mu\text{mol/s/m}^2$  PPF  
 • Area: 2.25 m<sup>2</sup> (1,5x1,5m)



**SECONDARY TEST**  
 • 8 Bars at 100% Power  
 • 65.5cm Height to Test Point  
 • Max 1000  $\mu\text{mol/s/m}^2$  PPF  
 • Area: 2.25 m<sup>2</sup> (1,5x1,5m)



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