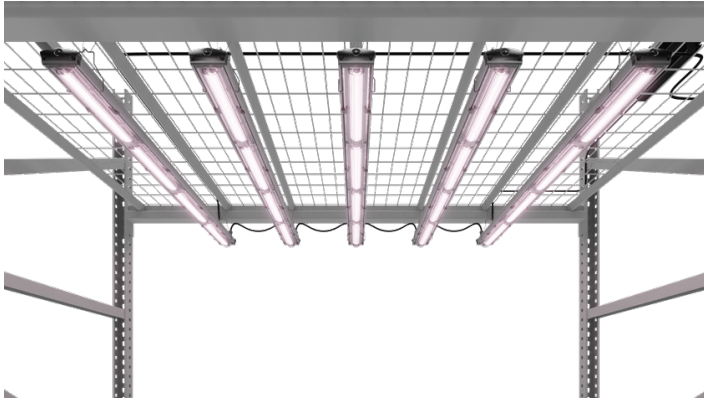


Arize Factor®

Scalable lighting system for multi-layer cultivation



Features

- Scalable, modular, and versatile, the Arize Factor is the ideal choice for multi-layer, production-focused cultivation.
- Configurable in 2, 4, 5, and 6-bar arrays, growers can add extra bars to easily boost intensity or increase coverage area.
- This highly efficient, passively-cooled LED grow light system can power vigorous vegetative growth or drive generative production in dense, sea-of-green style indoor plantations.
- May be used as a top light in indoor (stacked and non-stacked) as Sole-Source lighting

PRODUCT SPECIFICATIONS	
Light source	LED
Wattage	See chart on page 3
Input voltage	120 - 480V
Spectrum	Various - see chart
Photosynthetic Photon Flux PPF (High Output)	Various see chart on page 3
Efficacy	2.7 to 3.3 $\mu\text{mol}/\text{j}$
Dimming	0-10V (dim to off)*
Dim Off Voltage	0.35-0.65V (typ. 0.5V)
Dim On Voltage	0.55-0.85V (typ. 0.7V)
Distribution	W
Power Factor	>0.9
Absolute Maximum Dimming Voltage	20V
Max. Remote Mount Distance	6 ft (1.83 m)
L90**	>50,000 hours
Operating temperature	0°C to 40°C (32°F to 104°F)
Thermal Mgt	Passive
Listing	cULus E492907, CE, UKCA, DLC, IP65
Lens	Polycarbonate
Limited Warranty	Five-year warranty

*Average rated life based on industry standard measurements
 * Refer to installation guide for dimming functionality details. Use with sink dimmers only
 ** Tested at 40°C per TM-21

Warranty: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. The product images shown are for illustration purposes only and may not be an exact representation of the product.

Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. [Click here for Acrylic-Polycarbonate Compatibility table](#) for suitable uses.
 Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. [Click here for a list of substances](#) that may not be suitable for interaction with LEDs and other electronic components.

Lead times will vary depending on options selected. Consult with your sales representative.

EXAMPLE: VAE1 ...

Series	Number of Modules	Spectrum	Voltage
VAFS Arize Factor	2 2 modules	PKB Pink Medium Blue	120 120V
	4 4 modules	PKF Pink Far Red	208 208V
	5 5 modules	PKR Pink Low Blue	240 240V
	6 6 modules	PPF Purple Far Red	277 277V
		PUR Purple Low Blue Spectrum	277X 277V utilizing Xvolt driver
			347X 347V utilizing Xvolt driver
		480X 480V utilizing Xvolt driver	
		MVOLT 120-277V	
		XVOLT 277-480V	

Distribution	Cordsets ‡
WD Wide Distribution	CNPQDWL4FT Cord with quick disconnect, no plug, 3-conductor, black, wet location, 4FT
	CNPQDWL Cord with quick disconnect, no plug, 3-conductor, black, wet location, 6FT
	CNPQDWL10FT Cord with quick disconnect, no plug, 3-conductor, black, wet location, 10FT
	CNPQDWL12FT Cord with quick disconnect, no plug, 3-conductor, black, wet location, 12FT
	CNPQDWL15FT Cord with quick disconnect, no plug, 3-conductor, black, wet location, 15FT
	CNPQDWL20FT Cord with quick disconnect, no plug, 3-conductor, black, wet location, 20FT
	CPQDSB4FT Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 4FT
	CPQDSB Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 6FT
	CPQDSB10FT Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 10FT
	CPQDSB12FT Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 12FT
	CPQDSB15FT Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 15FT
	CPQDSB20FT Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 20FT
	CPQDTL4FT Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 4FT
	CPQDTL Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 6FT
	CPQDTL10FT Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 10FT
	CPQDTL12FT Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 12FT
CPQDTL15FT Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 15FT	
CPQDTL20FT Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 20FT	

Mounting	Packaging
MTBU1625 Unistrut mountng bracket, 1.625IN/40mm	JP6 job pack, qty 6 JP8 job pack, qty 8 JP9 job pack, qty 9 JP12 job pack, qty 12 JP24 job pack, qty 24
SUSP Suspended	

Accessories	
VAFEX3FT	3' Interconnection Cable, UL, 3 conductor
VAFEX	6' Interconnection Cable, UL, 3 conductor
VAFMTSB	Factor Suspended Mount Wireform Bracket
VAFMTSBU1625	Factor Suspended Mount Wireform Bracket 1 5/8" Unistrut
VAFMTRR24	Factor Rolling Rack Mount, 24"
VAFMTRR48	Factor Rolling Rack Mount, 48"
VAFAC12	1' driver Remote Mounting Kit (one kit in a bag)(4 cables in each kit)
RK8VAFS SC	Replacement Shorting Cap

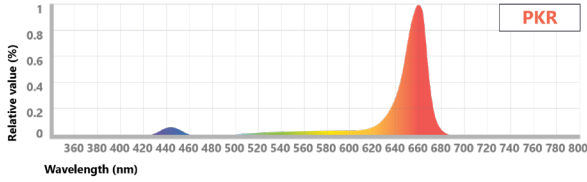
‡ Option Value Ordering Restrictions	
Option value	Restriction
Cord sets	CPQDTL20A options required with 347 and 480V. CPQDSB and CPQDTL options not available with MVOLT or HVOLT.

Spectrum Table					
ARRAY	SPECTRUM	TYPICAL PHOTON FLUX (μMOL/S)	EFFICACY (μMOL/S)	POWER (W)	DC INPUT VOLTAGE
2	PKR	1741	2.7	639	143
	PKB	1695	2.7	626	141
	PKF	1729	2.8	626	141
4	PKR	1148	2.8	415	45
	PKB	1152	2.8	415	45
	PPF	1134	2.7	423	45
	PUR	1300	3.3	416	45
	PPF	1276	3.1	408	45
5	PKR	1436	2.8	519	45
	PKB	1440	2.8	519	45
	PPF	1417	2.7	529	45
	PUR	1625	3.3	520	45
	PPF	1595	3.1	510	45
6	PKR	1723	2.8	622	45
	PKB	1728	2.8	622	45
	PPF	1701	2.7	635	45
	PUR	1950	3.3	624	45
	PPF	1914	3.1	612	45

Photometric Data

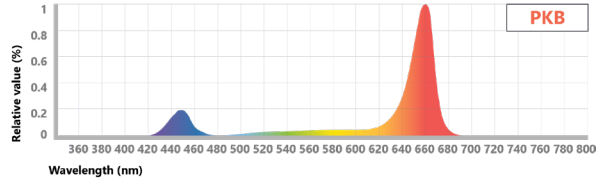
Type R

High red light to optimize plant growth and photosynthesis



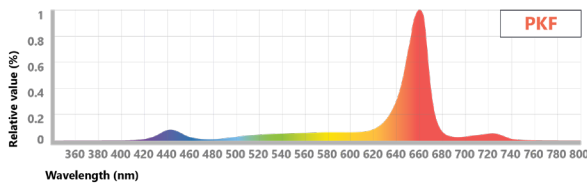
Type B

Light that supports biomass and secondary metabolite production



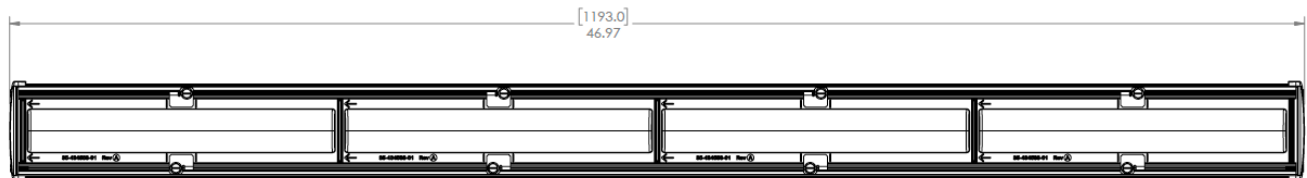
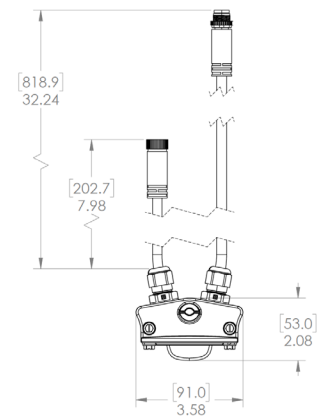
Type F

Encourages a stretching and expansion response for more robust growth



SPECTRUM PHOTON DISTRIBUTION				
Spectrum	Blue PF (%)	Green PF (%)	Red PF (%)	Far Red PF (%)
PKR	7	16	76	1
PKB	15	14	70	1
PKF	7	16	72	5
PUR	10	0	90	0
PPF	9	0	87	4

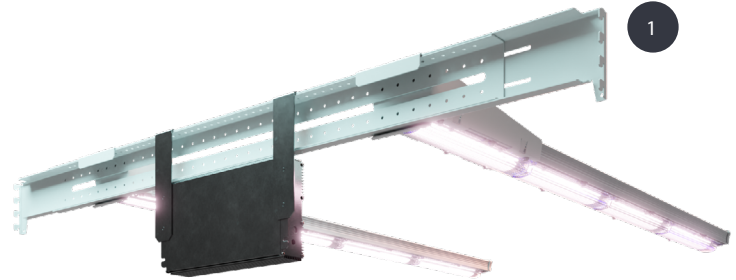
Dimensions and Weight				
	LENGTH	WIDTH	HEIGHT	WEIGHT
Fixture	46.97" 1193 mm	3.58" 91 mm	2.08" 53 mm	5.7 lbs 2.6 kg
Power Supply	10.81" 274.5 mm	9.96" 252.9 mm	3.65" 92.8 mm	7.7 lbs 3.5 kg



Why Factor?

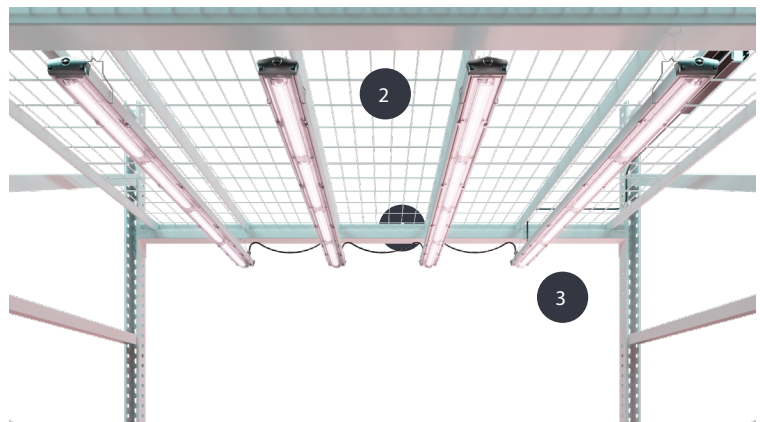
1. Grow Cart Mount

Factor adapts to your grow, not the other way around. The system can be installed on the side of a grow cart using the transversal bar, allowing it to fit below ventilation systems.



2. Suspended Mount

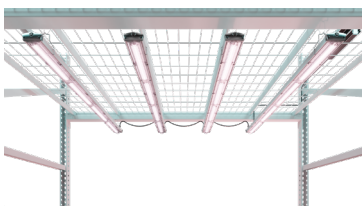
One size fits all. Straightforward hooks allow the light bars to be hung from any rack, and the power supply can be remotely mounted, meaning the Factor can be used in any setup.



3. Reliability

We perform the most extensive, stringent testing in the industry. We test the LED, water and dust ingress protection, sub-system and complete system at our in-house and independent laboratories around the world. Validation of our designs, components, products and processes include high temperature, high humidity and accelerated life testing.

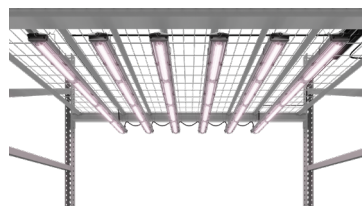
Arrays



4-bar



5-bar



6-bar

The Factor ML300 adapts to your setup, not the other way around. Customize the number of bars and spacing for tailored coverage and PPFD.