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Arize Factor®

Scalable lighting system for multi-layer cultivation

UL CERTIFIED | DLC HORT | 66 IP RATED
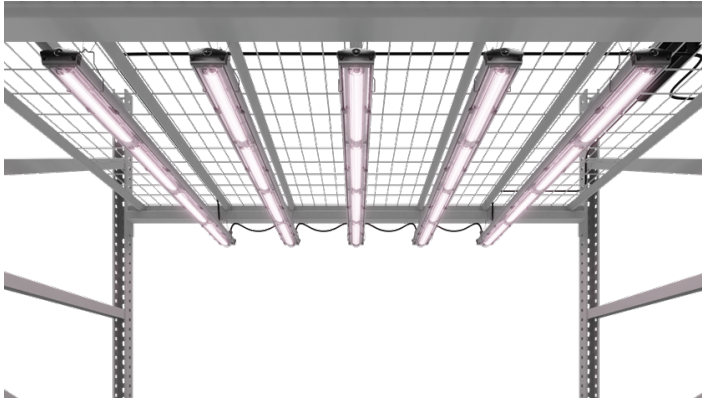
Features

- Scalable, modular, and versatile, the Arize Factor is the ideal choice for multi-layer, production-focused cultivation.
- Configurable in 2, 4, 5, and 6-modules 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.
- Applications include Indoor stacked and non-stacked, intra-canopy lighting supplemental to top lighting, and also Greenhouse intracanopy lighting, supplemental.

PRODUCT SPECIFICATIONS	
Light source	LED
Wattage	See chart on page 3
Max Source Current	450uA
Input voltage AC/DC	120 - 480V/45-143
Spectrum	Various - see chart
Photosynthectic Photon Flux PPF (High Ouput)	Various see chart on page 3
Efficacy	2.7 to 3.3 µmol/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	WBD
Power Factor	>0.9
Absolute Maximum Dimming Voltage	20V
Max. Remote Mount Distance	6 ft (1.83 m)
Q90**	>50,000 hours
Operating temperature	0°C to 30°C (32°F to 86°F)
Thermal Mgt	Passive
Listing	cULus, 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 30° C/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.

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Phone: 1-800-705-SERV (7378) • TechSupport-Horticulture@AcuityBrands.com
Note: Specifications subject to change without notice.

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

Series		Number of Modules		Spectrum		Driver Voltage	
VAFS	Arize Factor	**2**	2 modules, ML900	**PKB**	Pink Medium Blue	**120**	120V
		4	4 modules, ML300	**PKF**	Pink Far Red	**208**	208V
		5	5 modules, ML300	**PKR**	Pink Low Blue	**240**	240V
		6	6 modules, ML300	**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 ‡	
WBD	Wide Batwing Distribution	**(Blank)**	no cord
		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
		CPQDTL20A4FT	Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 4FT
		CPQDTL20A	Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 6FT
		CPQDTL20A10FT	Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 10FT
		CPQDTL20A12FT	Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 12FT
		CPQDTL20A15FT	Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 15FT
		CPQDTL20A20FT	Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 20FT

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

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Accessories

VAFEX3FT M60	3' Interconnection Cable, UL, 3 conductor
VAFEX M32	6' Interconnection Cable, UL, 3 conductor
VAFMTSB	Factor Suspended Mount Wireform Bracket (order 2 per module)
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 for use with 600W driver (one kit in a bag) (2 cables in each kit)
RK8VAFS SC	Replacement Shorting Cap

‡ Option Value Ordering Restrictions

Option value	Restriction
Cord sets	CPQDTL20A otpions required with 347 and 480V. CPQDSB and CPQDTL options not available with MVOLT or HVOLT.
JP8	Available with 6 module only
JP9	Available with 5 module only
JP12	Available with 4 module only
JP24	Available with 2 module only

Spectrum Table

Number of Modules	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
	PKF	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
	PKF	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
	PKF	1701	2.7	635	45
	PUR	1950	3.3	624	45
	PPF	1914	3.1	612	45

NEMA CONFIGURATION

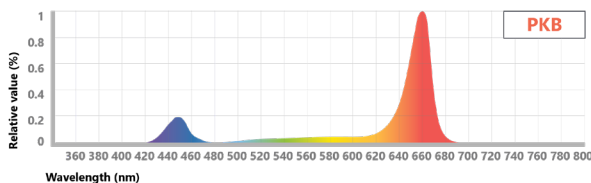| Voltage	Straight Blade	Twist Lock
120	5-15P	
208	6-15P	
240	6-15P	
277		L7-15P
347		L24-20P
480		L8-20P

Photometric Data

Type R

High red light to optimize plant growth and photosynthesis
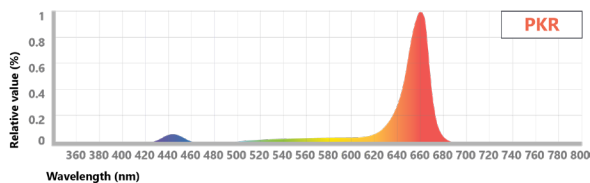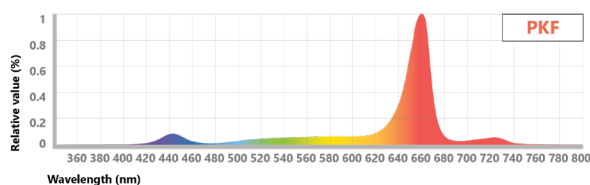

Type B

Light that supports biomass and secondary metabolite production

Type F

Encourages a stretching and expansion response for more robust growth
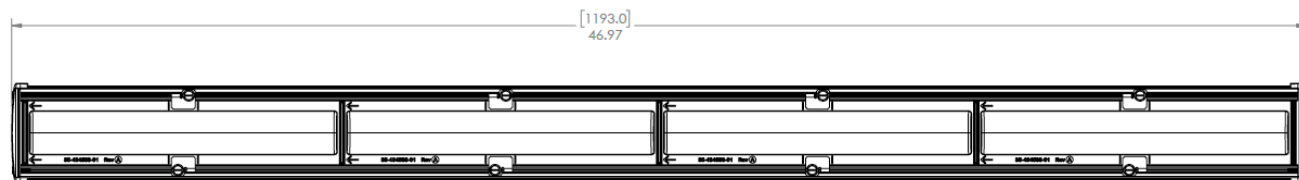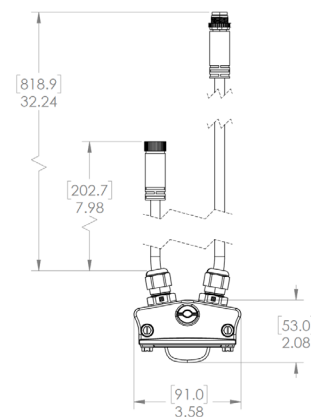

SPECTRUM PHOTON DISTRIBUTION				
Spectrum	Blue PF (%)	Green PF (%)	Red PF (%)	Far Red PF (%)
PKR	7	16	76	1
PKB	15	14	70	1
PKF	7	16	72	5
PUR	10	0	90	0
PPF	9	0	87	4

| 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

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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.
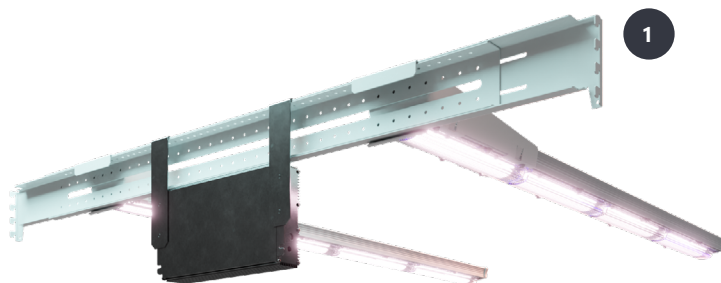
2. Suspended Mount
One size fits all. Straightforward hooks allow the light bars to be hung from any rack, and the power supply can be remotely mounted, meaning the Factor can be used in any setup.
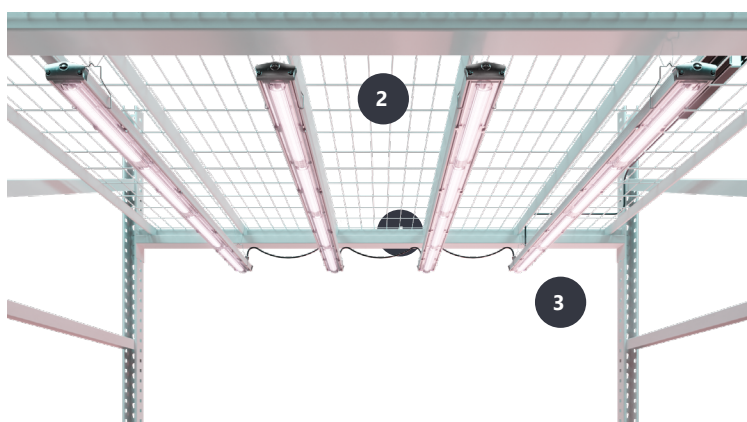
3. Reliability
We perform the most extensive, stringent testing in the industry. We test the LED, water and dust ingress protection, sub-system and complete system at our in-house and independent laboratories around the world. Validation of our designs, components, products and processes include high temperature, high humidity and accelerated life testing.
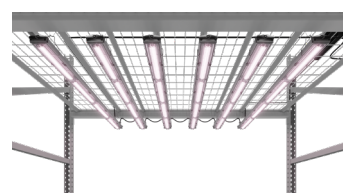
Arrays
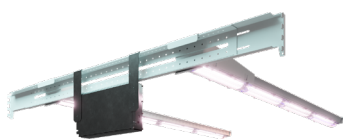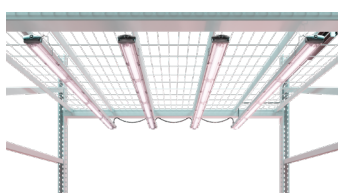
2-module **4-module** **5-module** **6-module**

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

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