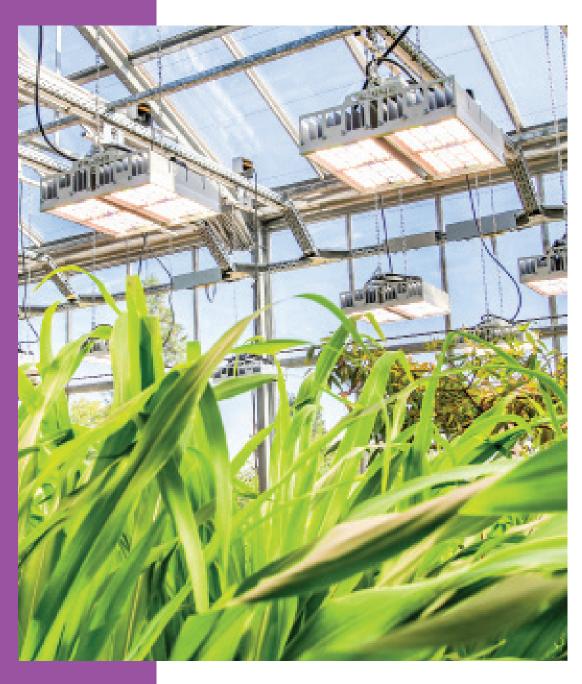
2024

CROP PRODUCTION CATALOG

Research Driver





Part of 🕲 greenlux Brand

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10+ Years of Advancing LED Horticulture

Valoya has engineered premium LED horticulture fixtures for Crop Science **since 2009** with 8 out of 10 of the world's most notable companies relying on our hardware. We are proud to bring our years of experience into applied crop science, launching our full line of Crop Production Solutions.

While continuing our research-driven approach, we forge ahead in optimizing Controlled Environment Agriculture systems from growth chambers to commercial greenhouses. From algae to evergreens to cannabis, we have a practical and precise instrument for the cultivation of any member of the plant kingdom.



As our customers, your lighting needs are our lighting goals. Our years of crop science experience are applied at scale for crop production success.

- The Valoya Team

	Linear Top Light	Top Light	Multi Tier Racking	Modular Low Wattage	Specialty Low Wattage	HID
	LT400	RX600, RX325	RF-Series	BX120	Clone Bars	смн, нрѕ
Greenhouse	/					/
Indoor	/	√	/	/	/	
Multi Tier High PPFD			/	/		
Vertical Farm Low PPFD					/	
Propagation					/	

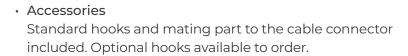


RX-Series



Designed as a replacement for HID lighting, the RX-series is a high power, dimmable LED luminaire with a high IP rating (IP65 - wet location). The robust all aluminium build, passive cooling and tempered glass cover ensure a long lifetime in the most demanding of environments.

- Typical Applications
 High intensity lighting, HID replacement
- PPFD 100 ~ 1000 µmol m² s²







Standard Optional

Technical Specification	RX325	RX600
Spectrum	Solray385/S	Solray X/S2
Power Consumption	330 W	655 W
Voltage Input	220 - 48	BO VAC
Light Output (PPF)* up to	1000	2000
Efficacy	up to 3.0	µmol J-1
Weight, Luminaire and LED Driver	13.1 lb (5.8 kg)	25.6 lb (11.6 kg)
Dimensions, Luminaire (L x W x H)	13.7" x 9.2" x 6.9" (347 x 233 x 176 mm)	13.7" x 15.7" x 6.9" (347 x 400 x 176 mm)
Cables	11.8" mains to LED driver, 52" lumina	re to LED driver, 11.8" dimming cable
Plug Type	Open end (bare l	eads)/NEMA plugs
Dimming	0-10V, PWM	, Dim to Off
L90 Q90	50,00	00+ h.
Certifications / Approvals	DLC listed, cETLus ma	arked, RoHS compliant
Max. Ambient Operating Temperature	40'	°C
Cooling	Pas	ssive
Ingress Protection Rating	IPe	55
Warranty	5 year limite	ed warranty

Spectrum Dependent





RF-Series

The Racking Fixture combines the evolution of form factor for vertical cultivation with Valoya's historic build quality. We utilize **tempered glass lenses** to protect vital chip components while maintaining the light output and quality your crop needs for consistent and predictable results.

- Typical Applications
 Mid-to-high intensity lighting, grow room
- PPFD 100 ~ 1200+ μmol m² s²

Spectrum Dependent

Accessories

Standard hooks included. Optional hooks, mains input connector and blank cap available to order.



Technical Specification*	RF700-6	RF600-6	RF400-6	RF300-6	RF350-3	RF300-3
Spectrum			Solray385	5/Solray X		
Power Consumption	720 W	680 W/660 W	450 W	320 W	360W	320 W
Voltage Input	220 - 4	-80 VAC	100 - 2'	77 VAC	220 - 4	BO VAC
Light Output (PPF)* up to	19	000	1170	850	900	850
Efficacy			up to 2.7	µmol J-1		
Weight, Luminaire and LED Driver		25.6 lb	(11.6 kg)		13.1 lb	(5.8 kg)
Dimensions Luminaire (L x W x H)			44.4" x 3.3" 0 x 85 mm)			3.3" (1190 x 565 x mm)
Cables		11.8" mains to LEC	O driver, 26" lumina	ire to LED driver, 17	.8" dimming cable	
Plug Type			Open end (bare le	ads) or NEMA plugs	5	
Dimming			0-10V, PWM	, Dim to Off		
L90 Q90			50,0	00+ h.		
Certifications / Approvals		DI	LC listed, cETLus m	arked, RoHS compl	iant	
Max. Atmbient Operating Temperature			40	°C		
Cooling			Pa	ssive		
Ingress Protection Rating			ΙΡ	65		
Warranty			5 year limite	ed warranty		



L28-Series

With absolute light uniformity and no heat produced even when placed right above the canopy, the L-Series is ideal for vertical farming, tissue culture, growth chambers, grafting and growing cannabis in the vegetative stage. The T8 form factor allows the L-series products to be installed in fluorescent tube fixtures without modification (fixtures with magnetic ballast).

By using optional end-caps the IP rating can go as high as IP65.

· Typical Applications

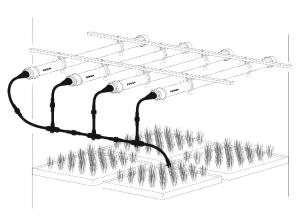
Mid-to-high intensity lighting, with high light uniformity even with low ceiling-to-canopy heights. Ideal for single tier applications in greenhouses, and indoor grow rooms.

PPFD

 $100 \sim 1200 + \mu mol \ m^2 \ s^2$

Accessories

Standard hooks included. Optional hooks, mains input connector and blank cap available to order.



Technical Specification*	L28
Spectrum	Solray385/SolrayX/S2
Power Consumption	330-380 W
Voltage Input	220 - 480 VAC
Light Output (PPF)* up to	1200
Efficacy	Up to 3.0 µmol J-1
Weight, Luminaire and LED Driver	25.6 lb (11.6 kg)
Dimensions, Luminaire (L x W x H)	47.2" x 2.91" x 2.28" (1200 x 74 x 58 mm)
Cables	0.3 m (11.8") mains to LED driver, 1.3 m (52") luminaire to LED driver, 0.3 m (11.8") dimming cable
Plug Type	Open end (bare leads)/NEMA plugs
Dimming	0-10V, PWM, Dim to Off
L90 Q90	50,000+ h.
Certifications / Approvals	CE marked, RoHS compliant Tested and certified to UL & CSA standards
Max. Atmbient Operating Temperature	40° C
Cooling	Passive
Ingress Protection Rating	IP66
Warranty	5 year limited warranty





BX-Series

High power, modular, dimmable LED bars with a high IP rating (IP67 – wet location). BX are slim, robust, humidity and impact resistant fixtures for research and cultivation. LED chips are protected by a tempered glass cover which is durable and safe to clean. The fixture is passively cooled and designed to have a smooth surface without fins, fans and deep ridges, preventing the buildup of debris.

- Typical applications
 Low-to-mid intensity lighting, growth rooms, multilayer
- PPFD 200 ~ 1200 µmol m² s²
- Accessories
 Standard hooks and LED driver with mating part to the cable connector included. Optional hooks available to order.





Standard Optional

Technical Specification	BX120
Spectrum	AP67/Solray385/Solray X
Power Consumption	130 W
Voltage Input	220 - 480 VAC
Light Output (PPF)* up to	400
Efficacy	up to 3.0 μmol J-1
Weight, Luminaire and LED Driver	9.0 lb (4.1 kg)
Dimensions, Luminaire (L x W x H)	46.3" x 2.9" x 2.3" (1176 x 73.5 x 58 mm)
Cables	0.3 m (11.8") mains to LED driver, 1.3 m (52") luminaire to LED driver, 0.3 m (11.8") dimming cable
Plug Type	Open end (bare leads)/NEMA plugs
Dimming	0-10V, PWM, Dim to Off
L90 Q90	50,000+ h.
Certifications / Approvals	DLC listed, cETLus marked, RoHS compliant
Max. Ambient Operating Temperature	40° C
Cooling	Passive
Ingress Protection Rating	IP67
Warranty	5 year limited warranty

Spectrum Dependent

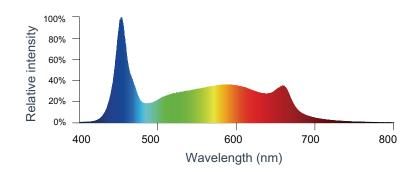


CLONE-LED18



Provides the perfect light spectrum for optimal plant growth and development during the cloning stage, resulting in faster and healthier growth. Designed with precision and consistency in mind.

- Typical Applications
 Cloning, Tissue Culture
- **PPFD** 36 µmol m² s²

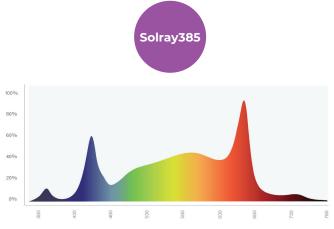


Technical Specification*	CLONE LED18
Spectrum	9000K
Power Consumption	20 W
Voltage Input	110-277 VAC
Light Output (PPF)* up to	40
Efficacy	2.0 µmol J-1
Weight, Luminaire and LED Driver	0.84 lb (0.38 kg)
Dimensions, Luminaire (L x D)	44.1" x 1" x 1.4" (1120 mm x 26 mm x 35 mm)
Cables	1.3 m (52") mains to fixture
Plug Type	Ships with 120 V NEMA 5-15
L90 Q90	54,000+ h.
Certifications / Approvals	Tested and certified to ETL, CE, standards
Ambient Operating Temperature	35° C
Cooling	Passive
Ingress Protection Rating	IP65
Warranty	5 year limited warranty

^{*}Spectrum Dependent*



Tailored Solutions for Your Systems

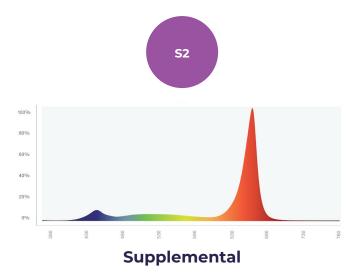


Enhanced Metabolite Production

Solray385° offers optimized spectrum for controlled environment agriculture and research throughout all growth stages. It provides a balanced range of wavelengths from UV to FR that is suitable for most plant species. Solray385 has been thoroughly tested and proven to be highly effective, serving as a sole source of light.

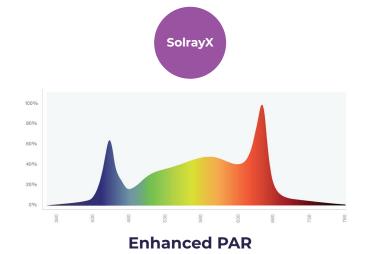
In addition, Solray385's unique characteristics allow plants to drive optimal phenotypical expression, resulting in the best possible plant growth. With Solray385, you can ensure that your plants receive the ideal light for optimal growth and development.

Available for: RX-Series, RF-Series, LT-Series, BX-Series



52° spectrum is designed for supplemental lighting in greenhouses. It offers a complete light output across the PAR range (400-700nm) with extra energy in the red portion of the PAR range. Since it includes a generous amount of green light, so growers' eyes will not be strained like other "blurple" (blue and red only) lights. This is a critical point as it allows growers to properly see their plants when scouting for infestations, plant diseases, and nutritional issues.

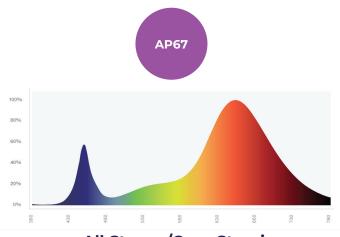
Available for: RX-Series, LT-Series



SolrayX[®] spectrum is based on what most would consider a traditional plant growth spectrum with some proprietary tweaks. It covers all the wavelengths in the PAR range (400-700nm). It's an excellent choice for growers looking to optimize their plant growth and improve their crop yields. The SolrayX spectrum offers superior performance and efficiency, making it an ideal choice for both indoor and greenhouse applications.

SolrayX is optimized for CAPEX and longevity while retaining high visibility for scouting and grower environmental comfort.

Available for: **RX-Series, RF-Series, LT-Series, BX-Series**



All Stages/Crop Steering

AP67° spectrum is Valoya's patented traditional spectrum. It was originally designed to achieve robust vegetative growth but is still being proven to work well in all stages. It is being deployed extensively for tissue culture applications along with cropscience breeding programs around the world. One of its key highlights is that it increases overall biomass due to its ability to stimulate leaf expansion.

An additional benefit is that it has the potential to accelerate plant maturity and ripening.

Available for: BX-Series, L-Series, Light Recipe Formulations

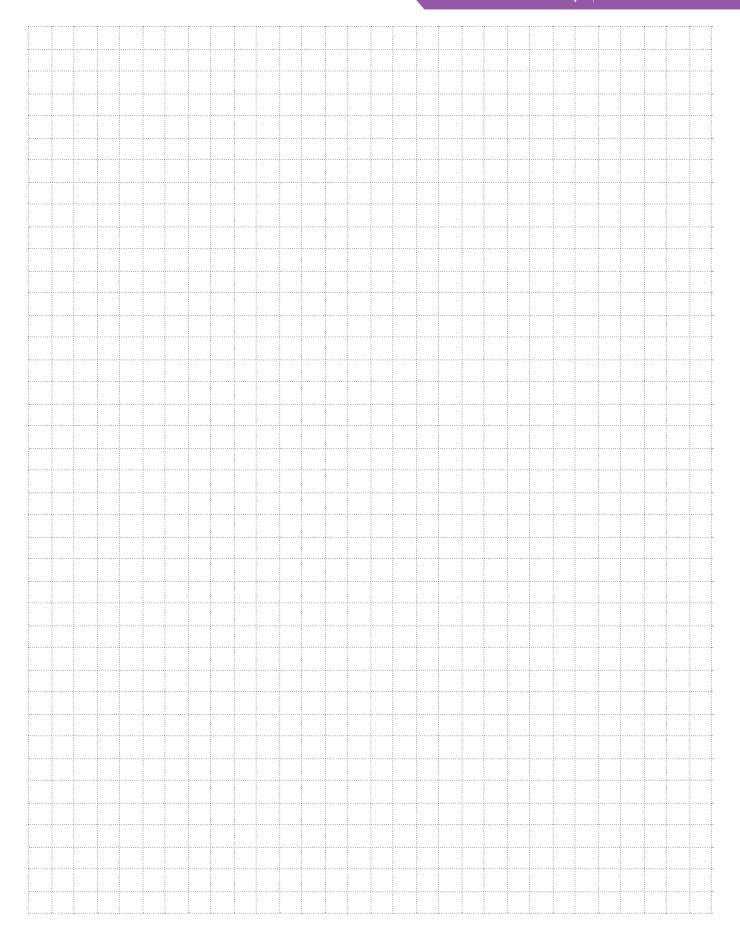


HPS/CMH

To give growers the freedom to choose what is best for their plants, Valoya now offers a range of HID luminaires in addition to its LED portfolio.

Model	Туре	Description
M1000L VAL-H1-1000CG2W-GIA(120- 240V) VAL-H1-1000TG2W- GIA(208- 480V)	A low profile, double ended HPS luminaire, designed for the flowering phase in lower ceiling height set-ups without compromising light uniformity.	1. Wattage: 1000W Input Voltage: 120-240/208-480V 2.Dimming type:600/750/ 825/ 1000 /1150/ and 0-10V 3. Die casting arm 4. Alanod (Germany) reflector, Efficiency 95%, super wide reflector
M1000c VAL-H1-1000EY1W-GIW	A high power CMH luminaire designed for veg applications.	1. Wattage: 1000W Input Voltage: 240-277V 2.Dimming type:600/750/ 825/ 1000 /1150/ and 0-10V 3. Die casting arm 4. Alanod (Germany) reflector, Efficiency 98%, wide reflector
M1000h VAL-H1-1000EY1W-GIA	A high voltage version of our M1000 model.	1. Wattage: 1000W Input Voltage: 240-277V 2.Dimming type:600/750/ 825/ 1000 /1150/ and 0-10V 3. Die casting arm 4. Alanod (Germany) reflector, Efficiency 95%, Medium reflector
M1000 VAL-H1-1000CY1W-GI28	A high intensity HPS luminaire for greenhouse and warehouse cultivation environments.	1. Wattage: 1000W Input Voltage: 120-240V 2.Dimming type:600/750/ 825/ 1000 /1150/ and 0-10V 3. Die casting arm 4. Alanod (Germany) reflector, Efficiency 95%, Medium reflector
M630 VAL-H1-630277Y1W-W27A	A double ended CMH luminaire for mother rooms, vegetative phase and supplemental illumination in light DLI greenhouse applications.	1. Wattage:630W Input Voltage:277V 2.Dimming type:600/750/ 825/ 1000 /1150/ and 0-10V 3. Die casting arm 4. Alanod (Germany) reflector, Efficiency 95%, medium reflector
M315ch VAL-H1-315277XK5W-WVA	A high voltage version of our M315c model, suitable for mother room, veg, flower and low DLI greenhouse applications.	1. Wattage: 315W Input Voltage: 277V 2.Dimming type: 0-10V RJ14 dimming 3. Profile arm 4. Alanod (Germany) reflector, Efficiency 95%, medium reflector
M315c VAL-H1-315CKW-WVG	A light weight and energy efficient CMH luminaire designed for use in mother rooms, veg, flower and low DLI greenhouse applications.	1. Wattage: 315W Input Voltage: 120-240V 2.Dimming type: 0-10V RJ14 dimming 3. Profile arm 4. Alanod (Germany) reflector, Efficiency 95%, medium reflector
M315c2 VAL-H2-315CLW-WNK	Two CMH lamps in a single luminaire designed for mother room, veg, bloom and low DLI greenhouse applications.	1.Wattage: 630W Input Voltage: 120-240V 2.Dimming type: 0-10V RJ14 dimming 3. Profile arm 4. Alanod (Germany) reflector, Efficiency 95%, medium reflector







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5	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.0	0.9	0.9	1.0	1.1
6	0.0	0.1	0.2	0.5	0.4	0.6	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2
, I	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3
۱,	0.0	0.1	0.2	0.5	0.4	0.5	0.6	0.7	0.0	0.9	1.0	1.1	1.2	1.3
۰I	0.0	0.1	0.2	0.5	0.4	0.6	0.7	0.0	0.9	1.0	1.1	1.2	1.3	1.4
۰I	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.0	0.0	11	1.2	1.9	1.6	1.5
۱ ۱	0.0	0.1	0.0	0.4	0.5	0.0	0.0	0.9	1.0	1.1	1.2	1.6	1.5	1.0
2	0.0	0.1	0.3	0.4	0.6	0.7	g.g	0.0	5.1	1.2	1.3	1.6	1.6	1.7
а	0.0	0.1	0.3	0.4	0.4	0.7	0.8	10	1.1	1.3	1.4	1.6	1.7	1.8
4	0.0	0.2	0.3	0.6	0.6	0.8	0.9	1,0	1.2	1.3	1.6	1.6	1.8	1.9
5	0.0	0.2	0.3	0.6	0.6	0.8	1,0	1.1	1.3	1.4	1,6	1.7	1.0	2.1
6	0.0	0.2	0,3	0.6	0.7	0.8	1,0	1.2	1.3	1.6	1.7	1.0	2,0	2.2
7	0.0	0.2	0.4	0,6	0.7	0.0	1.1	1.8	1.4	1.6	1.8	2.0	2.1	2.3
8	0.0	0.2	0.4	0.6	0.8	0.9	3.1	1.3	1.6	1.7	1,9	2.1	2.3	2.5
9	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6
٥	0.0	0.2	0.4	0.6	0.0	1.1	1.3	1.6	1.7	1.0	2.1	2.3	2.6	2.8
1	0.0	9.2	9.5	0.7	0.9	1,1	1.4	1.6	1.8	2.0	2.3	2.6	2.7	2.9
2	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4	2.6	2.9	3.1
3	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.3
4	0.0	0.3	0.5	0.8	1.1	1.0	1.6	1.9	2.1	2.4	2.7	2.9	3.2	3.5
5	0.0	0.3	0.6	0.0	LI.	1.4	1.7	2.0	2.3	2.5	2.6	3.1	3.4	3.7
c I	100%	95%	90%	85%	80%	75%	70%	65%	60%	55%	50%	45%	40%	35%

0	0.4	0.8	1.3	2
0.3	0.7	1.2	1.9	3
DISHASE	CLONING	VEGETATIVE	FLOWERING	STRESS

*C and *F are Leaf Surface Temperatures

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