

Babylon

(HRS, HRL, HRM, HRB)









Horticultural Grow Lighting
33w - 650w









PRODUCT INFORMATION

AIRIUS BABYLON RANGE

The Airius Babylon range of horticulture luminaires are built for the most demanding cultivation environments and are among the most efficient grow lighting systems available. Each aspect was designed to assist and enhance the way vegetables, plants and flowers are cultivated, enabling growers to produce faster bloom cycles, higher yields and drive down operating costs.

PRODUCT INFORMATION

BABYLON RANGE	SQUARE			LINEAR				
MODEL	HRS-600S8	HRS-450S6	HRS-300S4	HRL-600X4	HRL-600M8	HRL-450M6	HRL-300M4	HRL-150M2
PICTURE								
TYPICAL ENVIRONMENT	Indoor	Indoor	Indoor	Indoor & Greenhouse	Indoor & Greenhouse	Indoor & Greenhouse	Indoor & Greenhouse	Indoor & Greenhouse
COVERAGE AREA	4'x4'	4'x4'	4'x4'	Variable	Variable	Variable	Variable	Variable
RECOMMENDED MOUNTING HEIGHT ABOVE CANOPY	6" - 12"	6" - 12"	6" - 12"	Variable	Variable	Variable	Variable	Variable
PPFD @6"	1160 µmol/S	870 µmol/S	580 µmol/S	Variable	Variable	Variable	Variable	Variable
EFFICACY	2.62 µmol/J	2.62 µmol/J	2.62 µmol/J	2.48 µmol/J	2.48 µmol/J	2.48 µmol/J	2.48 µmol/J	2.48 µmol/J
SYSTEM POWER CONSUMPTION	650W	480W	325W	650W	650W	480W	325W	160W
AVAILABLE SPECTRA	A1 / M1 / K1 Custom			A1 / M1 / K1 Custom				
DIMMING CAPABILITY	1-10v / DALI / Dim to Off / Wireless			1-10v / DALI / Dim to Off / Wireless				
CERTIFICATIONS	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65
LIFETIME	Q90 >54,000 Hrs	Q90 >45,000 Hrs	Q90 >54,000 Hrs	Q90 >45,000 Hrs	Q90 >45,000 Hrs	Q90 >45,000 Hrs	Q90 >45,000 Hrs	Q90 >45,000 Hrs

BABYLON RANGE	MINI				DUAL		BAR	
MODEL	HRM-150S5	HRM-120S4	HRM-090S3	HRM-060S2	HRD-150D2	HRD-060D2	HRB-80	HRB-30
PICTURE								
TYPICAL ENVIRONMENT	Vertical Farming	Vertical Farming	Vertical Farming	Vertical Farming	Interlighting	Interlighting	Research & Custom	Research & Custom
COVERAGE AREA	2'x4'	2'x4'	2'x4'	2'x4'	Variable	Variable	Variable	Variable
RECOMMENDED MOUNTING HEIGHT ABOVE CANOPY	5" - 12"	5" - 12"	5" - 12"	5" - 12"	Variable	Variable	Variable	Variable
PPFD @6"	480 µmol/S	380 µmol/S	270 µmol/S	270 µmol/S	Variable	Variable	Variable	Variable
EFFICACY	2.35 µmol/J	2.35 µmol/J	2.35 µmol/J	2.35 µmol/J	2.62 µmol/J	2.35 µmol/J	2.62 µmol/J	2.35 µmol/J
SYSTEM POWER CONSUMPTION	160W	132W	100W	65W	160W	65W	33W	90W
AVAILABLE SPECTRA	A1 / M1 / K1 Custom				A1 / M1 / K1 Custom		A1 / M1 / K1 Custom	
DIMMING CAPABILITY	1-10v / DALI / Dim to Off / Wireless				1-10v / DALI / Dim to Off / Wireless		1-10v / DALI / Dim to Off / Wireless	
CERTIFICATIONS	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65	ETL, CE, IP65
LIFETIME	Q90 >45,000 Hrs	Q90 >45,000 Hrs	Q90 >45,000 Hrs	Q90 >45,000 Hrs	Q90 >45,000 Hrs	Q90 >45,000 Hrs	Q90 >45,000 Hrs	Q90 >45,000 Hrs

*Data provided by manufacturer and is subject to change at anytime



Dimmable for precise PPFD control



Optimized spectrums for the desired plants and growth



Durable Luminaires resistant to dust and humidity



Easy to install luminaires designed for large-scales installations

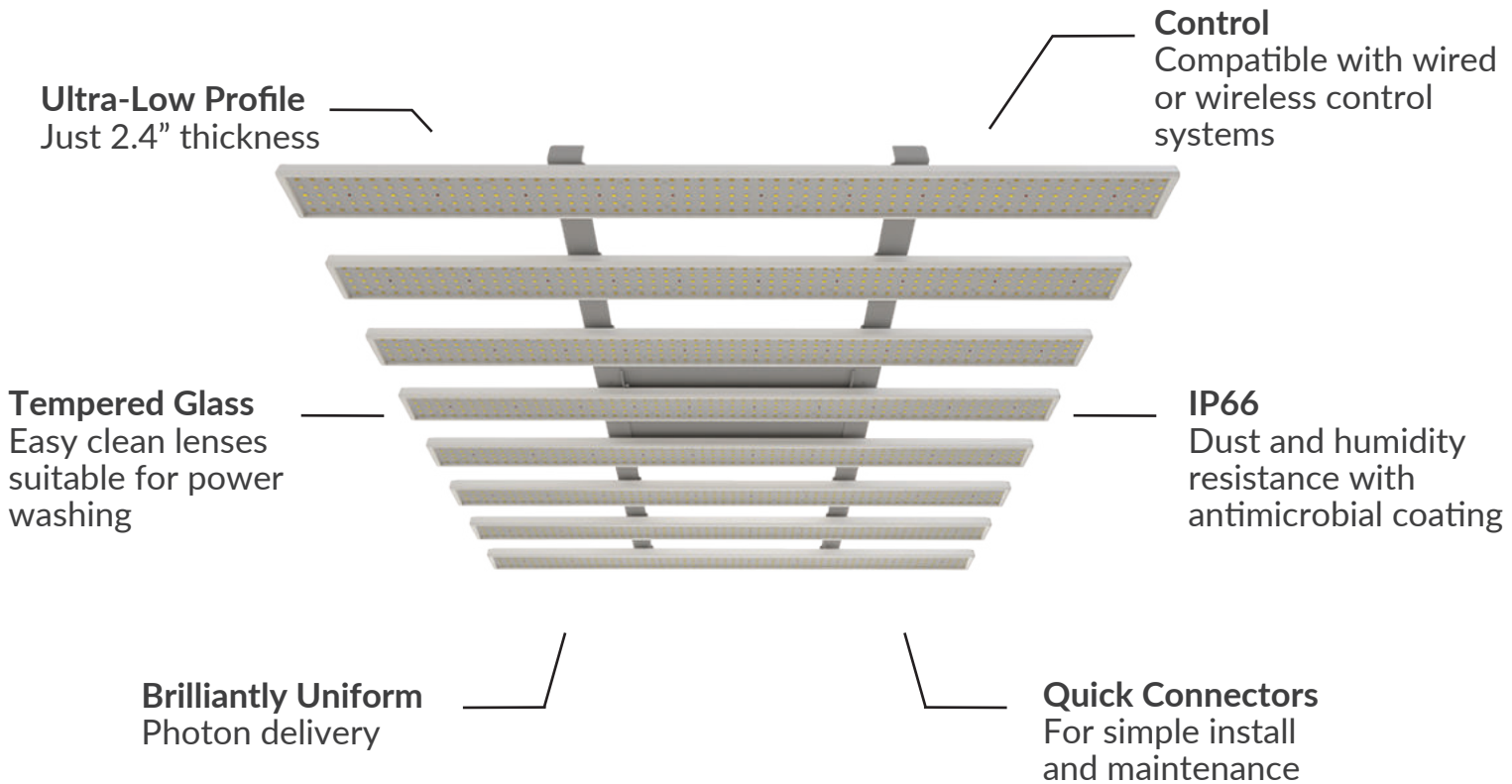


Passively cooled industrial grade heat management technology



Quality engineered for reliability and performance

SQUARE (HRS)



The Square HRS series is purposefully designed for delivering high PPFD levels for close-proximity cultivation in vertical farming and controlled environment horticulture applications.



Typical Applications

High intensity lighting, indoor multilayer cultivation and vertical farming

Light Intensity in Typical Applications

400 ~ 1200 $\mu\text{mol}/\text{m}^2/\text{S}$

Accessories

Specialized rack mounting options available

QUICK SPEC

MODEL	PPFD @ 6" ($\mu\text{mol}/\text{m}^2/\text{S}$)	POWER (W)	Efficacy ($\mu\text{mol}/\text{W}$)	DIMENSIONS (Inches)
HRS-600S8	1160 $\mu\text{mol}/\text{S}$	650	2.62	42"x42"
HRS-450S6	870 $\mu\text{mol}/\text{S}$	485	2.62	42"x42"
HRS-300S4	580 $\mu\text{mol}/\text{S}$	325	2.62	42"x42"

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LINEAR (HRL)

Easy Clean

PC lenses suitable for power washing

Control

Compatible with wired or wireless control systems

Power

Integrated or remote mounted driver options

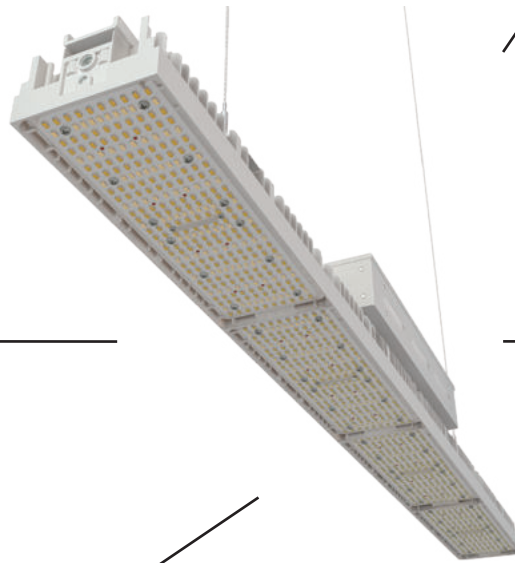
High Efficacy LED's
Delivering high intensity, and uniform, levels of PPFD

IP66

Dust and humidity resistance with antimicrobial coating

Quick Connectors

For simple install and maintenance



The Linear HRL is optimized with a slim form factor and lightweight structure to neatly fit along truss structures and minimize shading in greenhouses. The HRL is an efficient LED Luminaire, ideal for one to one replacements of 1000W HPS fixtures.



Typical Applications

Top Lighting in Greenhouses, open indoor commercial crop production areas.

Light Intensity in Typical Applications

100 ~ 800 $\mu\text{mol}/\text{m}^2/\text{S}$

Accessories

Daylight sensor

QUICK SPEC

MODEL	PPFD @ 6" ($\mu\text{mol}/\text{m}^2/\text{S}$)	POWER (W)	Efficacy ($\mu\text{mol}/\text{W}$)	DIMENSIONS (Inches)
HRL-600X4	Variable	650	2.48	48"x5"
HRL-600M8	Variable	650	2.48	48"x8"
HRL-450M6	Variable	480	2.48	36"x8"
HRL-300M4	Variable	325	2.48	48"x4"
HRL-150M2	Variable	160	2.48	35"x4"

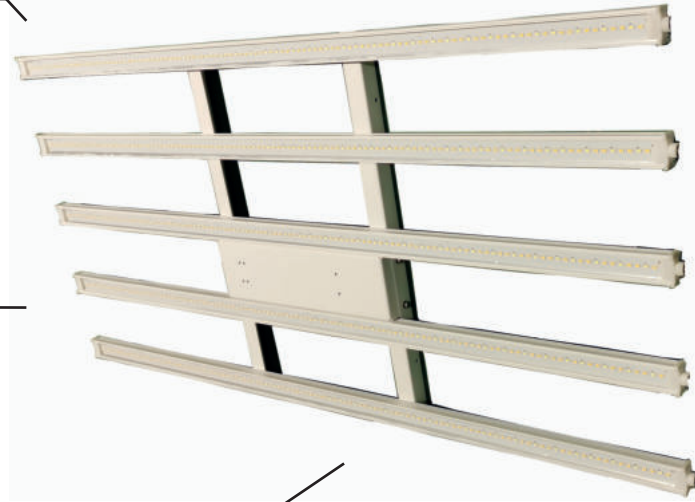
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MINI (HRM)

Ultra-Low Profile

Tempered Glass
Easy clean lenses suitable for power washing

Brilliantly Uniform
Photon delivery



Control
Compatible with wired or wireless control systems

IP66
Dust and humidity resistance with antimicrobial coating

Quick Connectors
For simple install and maintenance

The Mini Series is designed for research facilities, vertical farms, side-canopy and intrafamily light requiring high photon uniformity at low intensity.



Typical Applications

Low intensity multilayer interlighting

Light Intensity in Typical Applications

100 ~ 400 $\mu\text{mol}/\text{m}^2/\text{S}$

Accessories

Specialized rack mounting options available

QUICK SPEC

MODEL	PPFD @ 6" ($\mu\text{mol}/\text{m}^2/\text{S}$)	POWER (W)	Efficacy ($\mu\text{mol}/\text{W}$)	DIMENSIONS (Inches)
HRM-150S5	480	160	2.35	48"x24"
HRM-120S4	380	132	2.35	48"x24"
HRM-090S3	270	100	2.35	48"x24"
HRM-060S2	180	65	2.35	48"x24"

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BAR (HRB)

Versatility for Any Growing Environment

All the advantages of our HRS and HRM constructions in single bar format ideal for research facilities, vertical farms, side-canopy and inter canopy lighting.

Available in single power or linkable with integrated or remote mounted drivers

- Lengths: 42" & 48" (1.2m & 1.5m)
- Comes with either clear or diffused cover
- Up to IP66 (dust and humidity resistant)

Typical Applications - Growth chambers, research centres and custom applications

CONTROLS

Dimming Controller

All models are compatible with our Dimmer controller offering growers precise control over PPF, and the flexibility to instantly accommodate a new crop with varying light requirements



Dimmer Spec

Dimming Range	0 - 100%
Dimming Voltage	0-10V +/- 1V
Backup Battery	Built In
USB Charger Input	120V AC

For full specs please see Dimmer spec sheet

QUICK SPEC

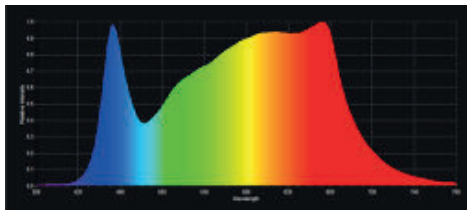
MODEL	PPFD @ 6" ($\mu\text{mol}/\text{m}^2/\text{S}$)	POWER (W)	Efficacy ($\mu\text{mol}/\text{W}$)	DIMENSIONS (Inches)
HRB-30	Variable	90	2.35	48"x1"
HRB-80	Variable	33	2.62	48"x3"

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SPECTRUMS

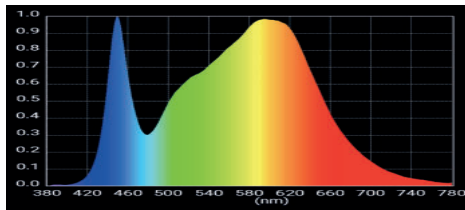
Airius work with an increasing network of partners focused on evidence based spectrum design. The cultivation research enables us to provide the knowledge, resources and research based results to help grow your business no matter what stage you are in.

A1



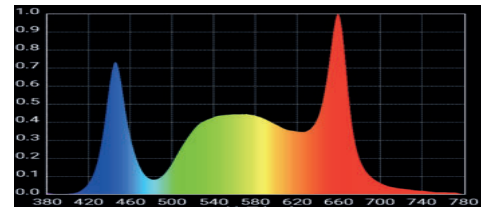
Spectrum for consistent yields and high cannabinoid expressions.

A2



Spectrum for early stage propagation and research.

A3



Optimized for absorption spectrum of multiple plants and crops.

CUSTOMIZED SPECTRA



Got a spectrum you would like to try?
We can build a custom LED circuit board on request for any of our products.



IMPORTANT NOTE: Plants, vegetables and flowers require a dynamic environment to optimize growth and development. If temperature, humidity, CO2, nutrient, or media-moisture levels fall out of the optimized range, those variables will become a limiting factor for photosynthesis and important biological reactions, even if all other variables are at the optimum levels.

Actual performance may differ as a result of end-user environment and application. All values are typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.