

# LED GROW LIGHT FOR MEDICINAL PLANT CULTIVATION



## \* Product features:

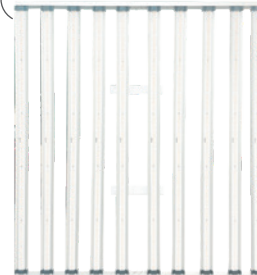
- High-quality LEDs provided by Samsung/ Seoul Semiconductor/ Nichia/ Lumiled/ Everlight with excellent performance
- Perfect spectrum for growing vegetables, medicinal plants in vertical farms or greenhouses
- High output PPF: up to 2900 ( $\mu\text{mol/s}$ ), PPE up to 2.9 ( $\mu\text{mol/J}$ )
- Aluminum extrusion heatsink design with perfect heat dissipation
- 5-level dimming by knob + RJ14 port
- Master controller controls up to 100 lights per zone or 200 lights in total
- IP65, Class I
- UL, FCC/CE, EMC certified
- Long life span: up to 54,000 hours, saving the maintenance cost

## \* Options:

- Spectrum: adding UVA/ Far Red to promote flowering



RD-Growlight (Gen1)



RD-Growlight (Gen3)



RD-Growlight (Gen2)

## PRODUCT DETAILS



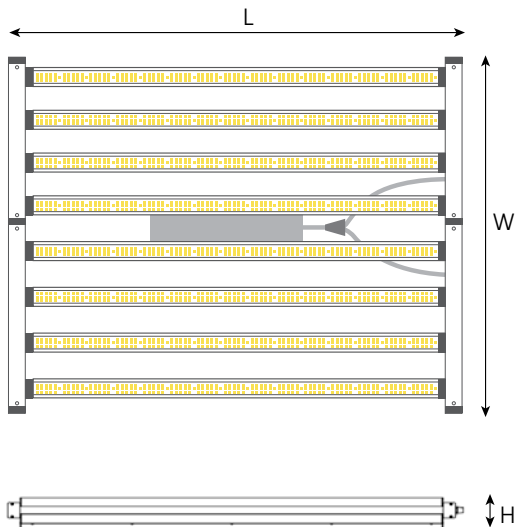
### Accessories


















### Plug (Options)



## PRODUCT SPECIFICATIONS



Model	Dimension LxWxH (mm)	Power (W)	Voltage (V)	Power factor	Photosynthetic Photon Flux (μmol/s)	Photosynthetic Photon Efficacy (μmol/J)	Spectrum	Beam angle (°)	Dimmable	IP	Lifespan (hrs)	Market
<b>GEN 1</b>												
RD-600-HE G1	800x1212x110	600	120 ÷ 277	0.95	1650	Up to 2.7	Full spectrum (UV, Far Red are options)	120	0-10 Dimming 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
RD-720-HE G1	1080x1212x110	720	120 ÷ 277	0.95	1980	Up to 2.7	Full spectrum (UV, Far Red are options)	120	0-10 Dimming 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
RD-800-HE G1	1080x1212x110	800	120 ÷ 277	0.95	2200	Up to 2.7	Full spectrum (UV, Far Red are options)	120	0-10 Dimming 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	

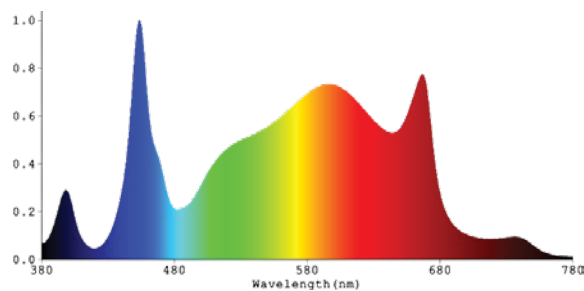
Model	Dimension LxWxH (mm)	Power (W)	Voltage (V)	Power factor	Photosynthetic Photon Flux (μmol/s)	Photosynthetic Photon Efficacy (μmol/J)	Spectrum	Beam angle (°)	Dimmable	IP	Lifespan (hrs)	Market
<b>GEN2: UVFR - Series Product Specification</b>												
RD-600.UF-HE G2	805x1212x85	600	120 ÷ 277	0.95	1740	Up to 2.9	Full spectrum + UV + R + FR	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
RD-720.UF-SE G2	1088x1212x85	720	120 ÷ 277	0.95	2088	Up to 2.9	Full spectrum + UV + R + FR	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
RD-1000.UF-SE G2	1368x1212x85	1000	180 ÷ 277	0.95	2900	Up to 2.9	Full spectrum + UV + R + FR	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
<b>GEN2: High Efficiency - Series Product Specification</b>												
RD-600-SE G2	805x1212x85	600	120 ÷ 277	0.95	1740	Up to 2.9	Full spectrum (UV, Far Red are options)	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
RD-720-SE G2	1088x1212x85	720	120 ÷ 277	0.95	2088	Up to 2.9	Full spectrum (UV, Far Red are options)	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
RD-1000-SE G2	1368x1212x85	1000	180 ÷ 277	0.95	2900	Up to 2.9	Full spectrum (UV, Far Red are options)	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
<b>GEN 2: Standard - Series Product Specification</b>												
RD-600-ST G2	805x1212x85	600	120 ÷ 277	0.95	1440	Up to 2.4	Full spectrum (UV, Far Red are options)	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
RD-720-ST G2	1088x1212x85	720	120 ÷ 277	0.95	1720	Up to 2.4	Full spectrum (UV, Far Red are options)	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
RD-1000-ST G2	1368x1212x85	1000	180 ÷ 277	0.95	2400	Up to 2.4	Full spectrum (UV, Far Red are options)	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
<b>GEN 3</b>												
RD-600-SE G3	805x1212x80	600	120 ÷ 277	0.95	1710	Up to 2.9	Full spectrum (UV, Far Red are options)	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
RD-720-SE G3	1088x1212x80	720	120 ÷ 277	0.95	2050	Up to 2.9	Full spectrum (UV, Far Red are options)	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	
RD-1000-SE G3	1707x1212x80	1000	180 ÷ 277	0.95	2850	Up to 2.9	Full spectrum (UV, Far Red are options)	120	0-10 Dimming, 25%-50%-75%-100%, Knob +RJ14 Port	65	54,000	

**Capacity: 0.3 million pieces per year**

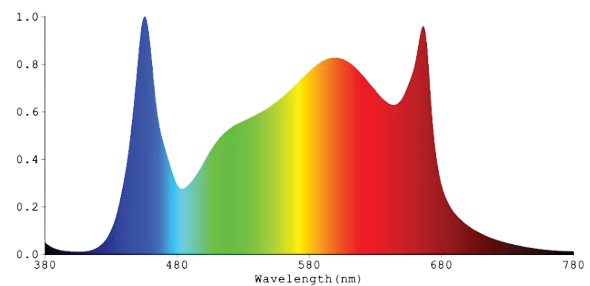
**Customizable:** Power, Voltage, PF, Photosynthetic Photon Flux, lifespan, etc.

## SPECTRUM

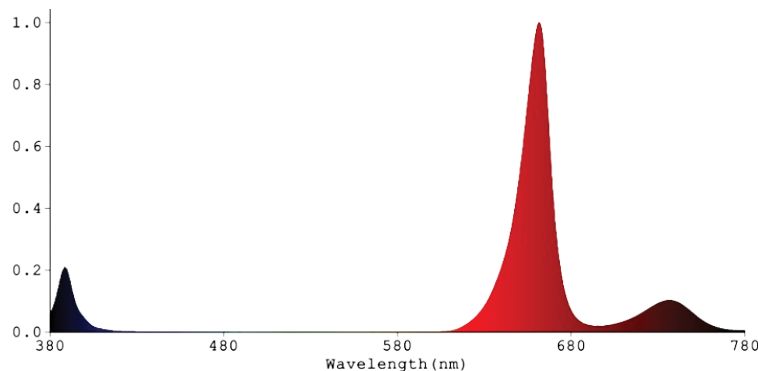
Full Spectrum + UV + Far Red



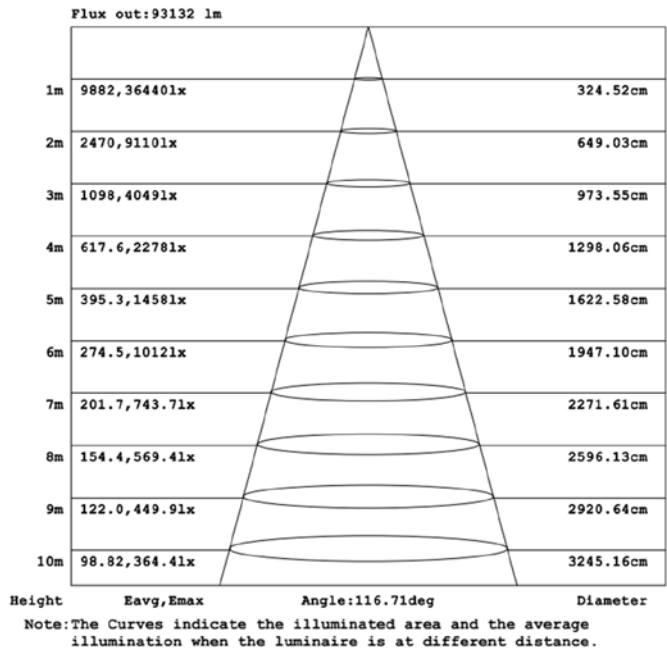
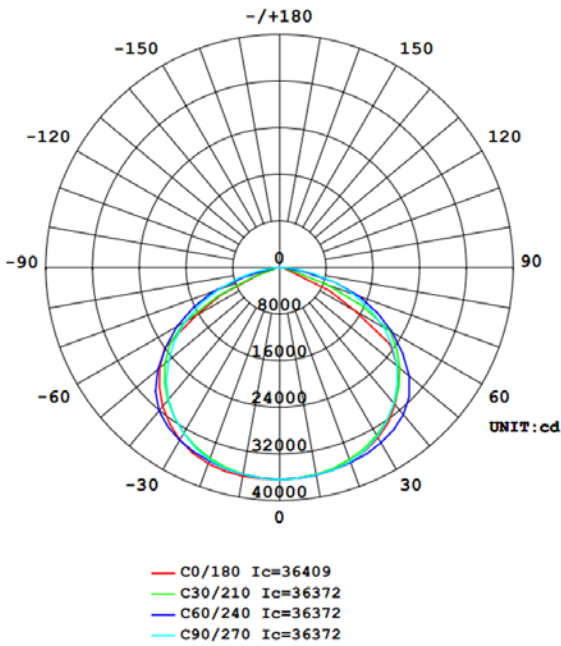
Full Spectrum



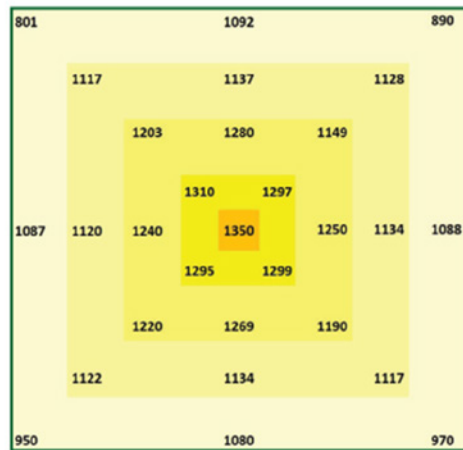
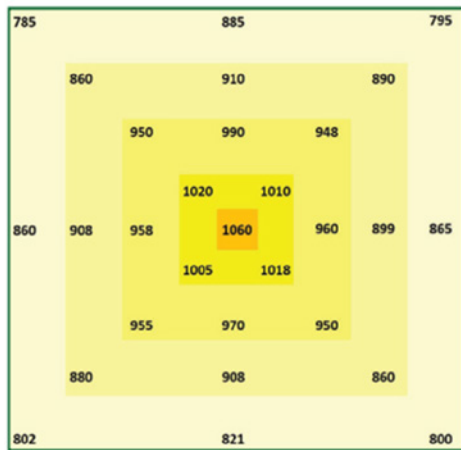
UV + Red + Far Red



## LUMINOUS INTENSITY DISTRIBUTION



## PHOTON FLUX DISTRIBUTION (PPFD) $\mu\text{MOL}/\text{M}^2.\text{S}$



## PACKING AND TRANSPORTATION



Type of lamps	Quantity in master box (pcs)	Estimated quantity / 20'DC (pcs)	Estimated quantity / 40'HC (pcs)
Gen 2 600W	2	670	1,540
Gen 2 720W	2	504	1,158
Gen 2 1000W	2	404	928
Gen 3 600W	1	962	2,208
Gen 3 720W	1	727	1,670
Gen 3 1000W	1	588	1,350



**Exported markets: USA, EU, South Korea, etc.**



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*Specifications are subject to change without prior notice*