

Horticultural LED Light For indoor Farming

Horticulture LED Grow Light









Indoor Farming Hydroponic

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- **[** NO.3-3,5-3, Jianguo Rd., Tanzi Dist., Taichung City 42760, Taiwan

- www.quelighting.com













Standard Spectrum

1) Standard Spectrum to choose

Spectrum	Wavelength	ww/sww	R/B/W	PCR/W	R/B
UV RED BLUE GREEN WHITE FAR RED	200-400nm 400-500nm 500-600nm 600-700nm 700-800nm	Sun-like light recipe (include full spectrum) for all leafy greens, vegetables at all Grow Stages	consumption and	More Red colors for soft fruit/ follower and bloom stage	A highly efficient growth spectrum require fast, but compact growth in the form of shorter internodal distances and thicker stems.

2) Choose Lamp Fixture for your requirement

Quelighting Lamp fixture Portfolio

TYPE	РНОТО	Input	Spectrum	POWER	Product finish
ECOTUBE		100-240VAC	WW, SWW, RBW PCRW, RB	28W	Full Plastic
сомво		DC48V or (120-277VAC)	WW, RBW PCRW, RB	43W	Aluminum Glass cover
QBoard	Nitheran Statement Statement	24VDC 48VDC	RBW PCRW, RB	50W / 30x45cm 100W / 40x60cm	РСВ
STRIP		24VDC	RBW, RB	50W / 200cm	Silicon Sealed PCB
ARES		36VDC	WW, RW RB	60~70W	Aluminum PC Diffuser







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LEDs for Horticulture Light

3030 PKG







Mid Power	0.5~1W						
Model	Brightness	μmol/s	μmol/J	Color	Wavelength(nm)	Drive Current	Vf typ.
Model	(lm/mW)	μιτιοί/3	μιτιοί/3	COIOI	/CCT	(mA)	(V)
QLSP04UV	150 mW	0.6	1.25	UV	400~410	150mA	3.2
QLSP04UV	180 mW	0.7	1.46	UV	420~430	150mA	3.2
QLSP04NW	80 lm	1.14	2.5	White	4000K	150mA	2.9
QLSP04RB	275 mW	1.04	2.4	Royal Blue	450~460	150mA	2.9
QLSP04DR	135 mW	0.82	2.7	Deep Red	650~670	150mA	2
QLSP04FR	105 mW	0.6	2.0	Far Red	720~740	150mA	2
QLSP04PCR		1.76	1.8	PC Red		300mA	2.9

3535 PKG





-							
High Power	r 3W						
Model	Brightness			Calar	Wavelength(nm)	Drive Current	Vf typ.
Model	(lm)	μmol/s	μmol/J	Color	/CCT	(mA)	(V)
QLSP07RBU	720 mW	2.7	2.57	Royal Blue	450~460	350mA	3.2
QLSP07NWU	170 lm	2.4	2.3	White	4000K	350mA	3.1
QLSP07DRU	435 mW	2.4	3.3	Deep Red	650~670	350mA	2
QLSP07FRU	300 mW	1.86	2.79	Far Red	720~740	350mA	1.9

FEATURES - Artificial Light Speeds up the Growing stages



- UV (380~490nm) Guides plants to flower, help in sterilization
- Blue Violet (400~410nm) Promotes leaf grwoth, responsible for green color
- Deep blue (440~460 nm): Responsible for root growth, leaf growth, prevents role of leggy.
- Green (515~535nm): Less liked by plants, so artificial lights comprose less green element.
- Yellow (585~595nm): Enhance taste, Boosts trace elements, and nutrition filled contents.
- Orange (600~610nm): Improves leaf & root quality, obtains gloss, fruits becomes tasty.
- Red (660nm): Plants obtain boosting energy for photosynthesis, and photoperiod.
- Far Red (730 nm): promote plant rhyrome's growth and flowering result for best yields.



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ECOTUBE MODEL



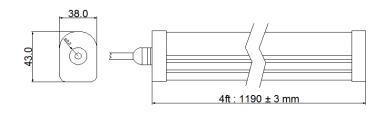
Features:

- Economical solution and ideal for indoor vertical crop cultivation.
- Easily replace traditional fluorescent T8 tube while increase light efficiency.
- With standard Spectrum (RBW / RB / PCRW / WW) for options.
- Ultra light weight by full plastic tube fixture.
- Alternative specifications and spectrum is available under customized request.
- Suggest 8pcs (15cm lamp space) in 120cm² growing area.
 PPFD >260 umol/m²s) at 20cm distance from crops
 PPFD >220 umol/m²s) at 30cm distance from crops.
- 1 years warranty for great reliability.

Specifications:

Mechanical Dimension:

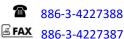






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ECOTUBE Economical Grow LED Light Tube



for indoor farming systems: 28W

Features:

- Ultra light weight to save your shipping cost
- Equip with water resistant connector for High reliability
- Multiple spectrum average PPFD~100 μmol/(m²s) for different crop cultivation and suit for all growing stages
- Transparent and oval diffuser create uniformity and better light distribution
- Select high efficiency LEDs chips for high enger saving

Specifications:

Туре			ECOTUBE Series			
Model No.	ECOT8-WW-28	ECOT8-SWW-28	ECOT8-RBW-28	ECOT8-PCRW-28	ECOT8-RB-25	
Photo		411111111111111111111111111111111111111	Activities the state of the sta		and the same of th	
AC Input Voltage	AC 100~240V	AC 100~240V	AC 100~240V	AC 100~240V	AC 100~240V	
Rated Power	28W ± 7%	28W ± 7%	27W ± 7%	28W ± 7%	23W ± 7%	
	Neutral White	Solar White	Red/Blue/White	PCRed/ White	Red/Blue	
	4000K	4000K	660nm/450nm/5000K	660nm/5000K	660nm/450nm	
Spectrum						
PPFD μmol/s/m2	136.6 μmol/(m ² s)	126.6 μmol/(m ² s)	129.9 μmol/(m ² s)	96.85 μmol/(m ² s)	103.9 μmol/(m ² s)	
LED Q'ty	192pcs	192pcs	192pcs	192pcs	192pcs	
PPF µmol/s	68 μmol/s	63 μmol/s	59.75 μmol/s	58.5 μmol/s	64.35 μmol/s	
Efficiency (umol/j)	2.7 μmol/j	2.5 μmol/j	2.5 μmol/j	2.1 μmol/j	2.3 μmol/j	
LED lifespan	>30,000 hrs	>30,000 hrs	>30,000 hrs	>30,000 hrs	>30,000 hrs	
Beam Width	120°	120°	120°	120°	120°	
Approval		CE I	Declaration , RoHS Complia	ance		
Waterproof Grade			IP 65			
Connector	20cm					
Dimension	W38 x H45 x L 1190mm					
Product finish			all-in-one integrated			
	A	III parameters tested und	ler 25°C ambient tempera	ture		

Applications:



Indoor Farming



Container Farm



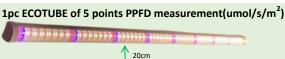




Spectrum Available:

- WW = Neutral White
- RBW= Deep Red , Blue , White
- PCRW = PCRed, White
- RB = Deep Red, Blue
- SWW = Solar White

PPFD result @ 18cm Distance







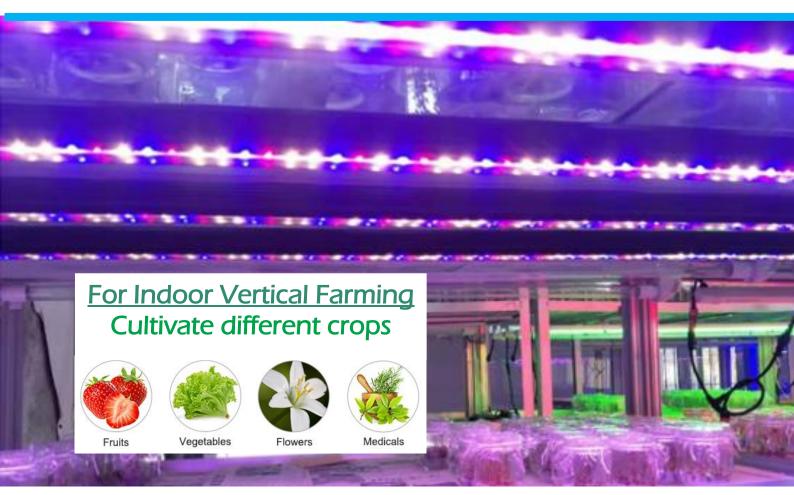




5 Points of PPFD test by Spectrometer PG200N									
Spectrum	Power	1	2	3	4	5			
ww	28W	113.9	126.6	136.6	122.9	99.27			
RBW	25W	100.5	128.2	129.9	124.7	103.2			
PCRW	28W	71.63	77.94	96.85	81.97	73.08			
RB	23W	74.4	95.1	103.9	97.4	73.99			
SWW	28W	96.5	114.2	126.6	112.4	94.5			



COMBO MODEL



Features:

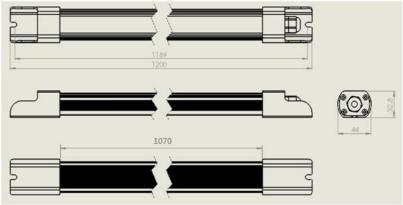
- Aluminum product fixture for passive air cooling.
- 0-10V Dimmable optional under request.
- Standard specifications for full-cycle growing stages to accommodate your plants.
- With standard Spectrum (WW / RBW / RB / PCRW) for options.
- Select high efficiency LEDs to increase the harvest volume by saving up to 50% energy
- suggest install 4pcs(25cm lamp space), distance 25~30cm from plants in 100cm² growing bed

Specification:



COMBO

Mechanical Dimension:

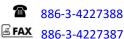




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for indoor farming systems: 40W

Features:

- Aluminum fixture for better heat dissipation (passive air cooling)
- Equip with water resistant connector for High reliability
- Multiple spectrum average PPFD150~200 μmol/(m²s) for different crop cultivation and suit for all growing stages
- Built in driver or exclusive LED driver optional according to your vertical farm construction.
- Select high efficiency LEDs chips for better light distribution

Specifications:

Туре		COMBO Series					
Model No.	COMBO-WW-40	COMBO-RBW-43	COMBO-PCRW-40	COMBO-RB-43			
Photo	1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	1.3- 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4	5.0 5.4 5.4 5.4 5.4 5.4 5.4	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6			
AC Input Voltage	AC 100~240V	AC 100~240V	AC 100~240V	AC 100~240V			
Rated Power	40W ± 7%	43W ± 7%	40W ± 7%	43W ± 7%			
Sportrum	Neutral White	Red/Blue/White	PCRed/ White	Red/Blue			
Spectrum	4000K	660nm/450nm/5000K	660nm/5000K	660nm/450nm			
PPFD μmol/(m2s)	204.1 μmol/(m ² s)	205.4 μmol/(m ² s)	168.8 μmol/(m ² s)	182.4 μmol/(m ² s)			
LED Q'ty	256pcs	224pcs	192pcs	256pcs			
PPF μmol/s	87.13 μmol/s	90.9 μmol/s	69.87 μmol/s	81.32 μmol/s			
Efficiency (µmol/j)	2.1 μmol/j	2.1 μmol/j	1.7 μmol/j	1.8 μmol/j			
LED lifespan	>30,000 hrs	>30,000 hrs	>30,000 hrs	>30,000 hrs			
Beam Width	120°	120°	120°	120°			
Approval		CE Declaration , R	oHS Compliant				
Waterproof Grade		IP 5	4				
Distance from Plants	20cm~30cm						
Dimension	W44 x H32.8 x L 120 cm						
Warranty	2 Voars (transformer built outside)						
	All parameters	tested under 25°C ambie					

Applications:







Spectrum Available:

- WW = Netural White
- RBW = Deep Red , Blue , White
- PCRW = PCRed, White
- RB = Deep Red, Blue

Indoor Farming

Multilayer Shelf

PPFD result @ 20cm Height











5 Points of PPFD test by Spectrometer PG200N									
Spectrum	Power	1	2	3	4	5			
ww	40W	146	201.8	204.1	204.6	155.6			
RBW	43W	153.7	202.4	205.4	204.4	155.8			
PCRW	40W	113.6	155.4	168.8	154.5	115.1			
RB	43W	138	185.1	182.4	180	144.8			



for indoor farming systems: 40W

Features:

- Aluminum fixture for better heat dissipation (passive air cooling)
- Equip with water resistant connector for High reliability
- Multiple spectrum average PPFD150~200 μmol/(m²s) for different crop cultivation and suit for all growing stages
- Built in driver or exclusive LED driver optional according to your vertical farm construction.
- Select high efficiency LEDs chips for better light distribution

Specifications:

Туре		COMBO Series					
Model No.	COMBO-WW-40	COMBO-RBW-43	COMBO-PCRW-40	COMBO-RB-43			
Photo	1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	1.3- 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4	5.0 5.4 5.4 5.4 5.4 5.4 5.4	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6			
AC Input Voltage	AC 100~240V	AC 100~240V	AC 100~240V	AC 100~240V			
Rated Power	40W ± 7%	43W ± 7%	40W ± 7%	43W ± 7%			
Sportrum	Neutral White	Red/Blue/White	PCRed/ White	Red/Blue			
Spectrum	4000K	660nm/450nm/5000K	660nm/5000K	660nm/450nm			
PPFD μmol/(m2s)	204.1 μmol/(m ² s)	205.4 μmol/(m ² s)	168.8 μmol/(m ² s)	182.4 μmol/(m ² s)			
LED Q'ty	256pcs	224pcs	192pcs	256pcs			
PPF μmol/s	87.13 μmol/s	90.9 μmol/s	69.87 μmol/s	81.32 μmol/s			
Efficiency (µmol/j)	2.1 μmol/j	2.1 μmol/j	1.7 μmol/j	1.8 μmol/j			
LED lifespan	>30,000 hrs	>30,000 hrs	>30,000 hrs	>30,000 hrs			
Beam Width	120°	120°	120°	120°			
Approval		CE Declaration , R	oHS Compliant				
Waterproof Grade		IP 5	4				
Distance from Plants	20cm~30cm						
Dimension	W44 x H32.8 x L 120 cm						
Warranty	2 Voars (transformer built outside)						
	All parameters	tested under 25°C ambie					

Applications:







Spectrum Available:

- WW = Netural White
- RBW = Deep Red , Blue , White
- PCRW = PCRed, White
- RB = Deep Red, Blue

Indoor Farming

Multilayer Shelf

PPFD result @ 20cm Height











5 Points of PPFD test by Spectrometer PG200N									
Spectrum	Power	1	2	3	4	5			
ww	40W	146	201.8	204.1	204.6	155.6			
RBW	43W	153.7	202.4	205.4	204.4	155.8			
PCRW	40W	113.6	155.4	168.8	154.5	115.1			
RB	43W	138	185.1	182.4	180	144.8			



QBOARD MODEL



Features:

- Economical solution and ideal for indoor vertical crop cultivation.
- Easy and flexible installations by screw holes on the LED boards.
- Standard specifications for full-cycle growing stages to accommodate your plants.
- Customized specifications and spectrum is available under requirement.
- High energy efficiency, long life time to improve climate control.
- Dimmable by 0-10V under additional request.

Specifications:

	QP	LATE Series			
Dimension	29x49cm	30x45cm	40x60cm		
Spectrum	RBW / RW / RB or customize				
PCB layout					

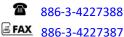






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Grow LED Light Board



for indoor farming systems: 50~100W

Features:

- Aluminum fixture for better heat dissipation (passive air cooling)
- Equip with water resistant connector for High reliability
- Multiple spectrum average PPFD150~200 μmol/(m²s) for different crop cultivation and suit for all growing stages
- Built in driver or exclusive LED driver optional according to your vertical farm construction
- Select high efficiency LEDs chips for better light distribution

Specifications:

Туре		Qboard	d Series				
Model No.	Qboard-3045-RBW-50	Qboard-3045-PCRW-50	Qboard-4060-RBW-110	Qboard-4060-RBW-350			
Photo							
Input Voltage	24VDC or 48VDC	24VDC or 48VDC	24VDC or 48VDC	24VDC or 48VDC			
Rated Power	50W ± 7%	50W ± 7%	110W ± 7%	110W ± 7%			
Spectrum	Red/Blue/White	PCRed / White	Red/Blue/White	Red/Blue/White			
Spectrum	660nm/450nm/5000K	660nm/5000K	660nm/450nm/5000K	660nm/450nm/5000K			
PPFD μmol/s/m ²	288.3 @30cm	339.7 @30cm	413.9 @30cm	>1000 @50cm			
LED Q'ty	70pcs	70pcs	144pcs	520pcs			
LED lifespan	>30,000 hrs	>30,000 hrs	>30,000 hrs	>30,000 hrs			
Beam Width	140°	140°	140°	140°			
Approval		CE Declaration ,	RoHS Compliant				
Waterproof Grade		IP	54				
Distance from Plants	20cm~30cm~50cm						
Dimension	30x45cm or 40-60cm Plate						
Product finish	Aluminum Board with silicon sealed LEDs						
	All parameter	s tested under 25°C amb	pient temperature				

Ordering Note

Specifications can be amended by request.

- 1) Choose LED Board Size first
- 2) Select preferred Spectrum / or customize
- 3) Check the output Power consumtion for each LED board
- 4) confirm LEDs Layout
- 5) additional function (Dimmable or Hot Plugging or so)

Spectrum Available:

- WW = Netural White 5000K & 4000K
- RBW = Deep Red, Blue, White
- PCRW = PCRed, White
- RB = Deep Red, Blue

Applications:









Indoor Farming

Multilayer Shelf



FIN MODEL



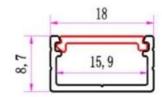
Features:

- Ultra slim and thin fixture with light weight to save the shipping cost.
- flexible as supplement light in greenhouse or main grow light for container farm.
- Standard specifications for full-cycle growing stages to cultivate your plants.
- standard 100cm or 200cm long or other customized length is welcome ODM.
- High efficiency LEDs selected for better Light output with high PPFD

Specifications:

- With DC jack for easy connection
- External transformer/driver needed

Mechanical Dimension





Grow LED Light - Ultra thin



for Container farming: 25W or 50W

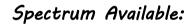
Features:

- Ultra thin fixture of LED Luminary for vertical lighting, 200cm length at 50W, or can be 100cm at 25W
- Multiple 100cm standard length best for container height and narrow space of growing plants
- RBW or pure R/B spectrum for all growing stages
- Super light weight to save shipping cost
- Select high efficiency LEDs chips for better light distribution

Specifications:

Length	200CM Long	100CM Long			
Model No.	FIN-RBW-50	FIN-RBW-25			
Photo	Spoons especially access to the extension of the second of	18			
Input Voltage	24VDC	24VDC			
Rated Power	50W ± 7%	25W ± 7%			
Spectrum	Red/Blue/White	RED / Blue			
PPFD (μmol/s/m2)	109 umol @30cm Height 155umol @20cm height	109 umol @30cm Height 155umol @20cm height			
LED Q'ty (pcs)	240	120			
LED lifespan	>30,0	000 hrs			
Beam Width	120°				
Approval	CE Declaration ,	RoHS Compliant			
Waterproof Grade	IP 54				
Distance from Plants	Best PPFD @20cm~25cm				
Dimension	L200 x W1.8 x H0.9 cm	L100 x W1.8 x H0.9 cm			
Weight(g)	290g/pc 160g/pc				
Product finish	Aluminum fixture, PC diffuser, Female DC Jack Connector				

Applications:









All parameters tested under 25°C ambient temperature

- RBW = Deep Red , Blue , White
- RB = Deep Red, Blue (4R:1B)

Indoor Farming Container Farming

25W/50W PPFD result @ 25cm Height



5 Points of PPFD @ 25cm Height / Test by Spectrometer PG200N						
Spectrum	Power	1	2	3	4	5
RBW	50W	136	138	132	128	117

Grow LED Light - Ultra thin



for Container farming: 25W or 50W

Features:

- Ultra thin fixture of LED Luminary for vertical lighting, 200cm length at 50W, or can be 100cm at 25W
- Multiple 100cm standard length best for container height and narrow space of growing plants
- RBW or pure R/B spectrum for all growing stages
- Super light weight to save shipping cost
- Select high efficiency LEDs chips for better light distribution

Specifications:

Length	200CM Long	100CM Long		
Model No.	FIN-RBW-50	FIN-RBW-25		
Photo	Cooks sees seed and the seed of the seed o	18		
Input Voltage	24VDC	24VDC		
Rated Power	50W ± 7%	25W ± 7%		
Spectrum	Red/Blue/White	RED / Blue		
PPFD (μmol/s/m2)	109 umol @30cm Height 155umol @20cm height	109 umol @30cm Height 155umol @20cm height		
LED Q'ty (pcs)	240	120		
LED lifespan	>30,0	000 hrs		
Beam Width	1	20°		
Approval	CE Declaration	, RoHS Compliant		
Waterproof Grade	IF	P 54		
Distance from Plants	Best PPFD (@20cm~25cm		
Dimension	L200 x W1.8 x H0.9 cm	L100 x W1.8 x H0.9 cm		
Weight(g)	290g/pc 160g/pc			
Product finish	Aluminum fixture , PC diffuser, Female DC Jack Connector			
	All parameters tested under 25°C am	bient temperature		

Applications:









- RBW = Deep Red , Blue , White
- RB = Deep Red, Blue (4R:1B)

Indoor Farming Container Farming

25W/50W PPFD result @ 25cm Height



5 Points of PPFD @ 25cm Height / Test by Spectrometer PG200N						
Spectrum	Power	1	2	3	4	5
RBW	50W	136	138	132	128	117



STRIP MODEL

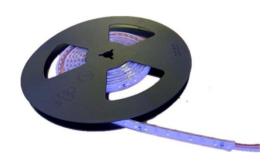


Features:

- Silicone sealed, transparent rope type for flexible installation.
- Can be supplemental light in Greenhouse/Canopy while sunlight is insufficient
- Standard specifications for full-cycle growing stages to accommodate your plants.
- With standard Spectrum (RBW / RB) for options.
- Select high efficiency LEDs to increase the harvest volume by saving up to 50% energy
- suggest 5~10cm lamp space like light curtain, distance 20cm from plants for container farm.

Specification:

STRIP Series					
Model Number	STRIP-RBW-50	Spectrum			
DC Input Voltage	DC 24V				
Power Consumption	14.4/M				
PPFD (umol/m²/s) @H25cm 4 ropes (spacing 5cm)	232.3umol	RBW the best recipe to increase crop yields			
Efficiency (umol/j)	1.2				
LED Lifespan	> 30,000 hrs				
Beam width emmision	120°	RB			
IP Grade	IP54	increase growing			
Dimension	W1.8 x L 200CM	speeds			
Weight	0.9 kgs				
Approval	CE, RoHS				
Warranty	1 years				
All parameters tested under 25°C ambient temperature					



STRIP



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Grow LED Light - Flexible Strip



for Supplemental light

Features:

- Silicone sealed, transparent rope type for flexible installation.
- 60W/200cm as standard length best for container height and narrow space of growing plants
- Multiple spectrum average PPFD 50~100 μmol/(m²s) for different crop cultivation and suit for all growing stages
- SMD3030 LED chips with high efficiency
- Select high efficiency LEDs chips for better light distribution

Specifications:

Туре	STRIP Series					
Model No.	STRIP-RBW-35	STRIP-RBW-60	STRIP-RB-35	STRIP-RB-60		
Photo						
Input Voltage	24VDC	24VDC	24VDC	24VDC		
Rated Power	35W ± 7%	60W ± 7%	35W ± 7%	60W ± 7%		
Spectrum	Red/Blue/White	Red/Blue/White	RED / Blue	RED / Blue		
PPFD μmol/s/m2	80.03 μmol@20cm	80.03 μmol@20cm	73.8 @20cm	73.8 @20cm		
LED lifespan	>30,000 hrs	>30,000 hrs	>30,000 hrs	>30,000 hrs		
Beam Width	120°	120°	120°	120°		
Approval	CE Declaration , RoHS Compliant					
Waterproof Grade	IP 65					
Distance from Plants	20~25cm					
Dimension	W1.6cm x L120 cm	W1.6cm x L200 cm	W1.6cm x L120 cm	W1.6cm x L200 cm		
Product finish	silicone sealed, cable end					
All parameters tested under 25°C ambient temperature						

Applications:







Spectrum Available:

- RBW = Deep Red , Blue , White
- RB = Deep Red, Blue (4R:1B)

Indoor Farming

Container Farming

PPFD result @ 20cm Height

Use spectrometer test 5 points of PPFD (umol/m²s)











5 Points of PPFD @ 20cm Height / Test by Spectrometer PG200N						
Spectrum	Power	1	2	3	4	5
RBW	35W	60.15	76.78	80.03	71.39	56.63
DD	25///	EE 1	72.0	72.0	71.2	E0 0



Grow LED Light - Flexible Strip



for Supplemental light

Features:

- Silicone sealed, transparent rope type for flexible installation.
- 60W/200cm as standard length best for container height and narrow space of growing plants
- Multiple spectrum average PPFD 50~100 μmol/(m²s) for different crop cultivation and suit for all growing stages
- SMD3030 LED chips with high efficiency
- Select high efficiency LEDs chips for better light distribution

Specifications:

Туре	STRIP Series					
Model No.	STRIP-RBW-35	STRIP-RBW-60	STRIP-RB-35	STRIP-RB-60		
Photo						
Input Voltage	24VDC	24VDC	24VDC	24VDC		
Rated Power	35W ± 7%	60W ± 7%	35W ± 7%	60W ± 7%		
Spectrum	Red/Blue/White	Red/Blue/White	RED / Blue	RED / Blue		
PPFD μmol/s/m2	80.03 μmol@20cm	80.03 μmol@20cm	73.8 @20cm	73.8 @20cm		
LED lifespan	>30,000 hrs	>30,000 hrs	>30,000 hrs	>30,000 hrs		
Beam Width	120°	120°	120°	120°		
Approval	CE Declaration , RoHS Compliant					
Waterproof Grade	IP 65					
Distance from Plants	20~25cm					
Dimension	W1.6cm x L120 cm	W1.6cm x L200 cm	W1.6cm x L120 cm	W1.6cm x L200 cm		
Product finish	silicone sealed, cable end					
All parameters tested under 25°C ambient temperature						

Applications:







Spectrum Available:

- RBW = Deep Red , Blue , White
- RB = Deep Red, Blue (4R:1B)

Indoor Farming

Container Farming

PPFD result @ 20cm Height

Use spectrometer test 5 points of PPFD (umol/m²s)











5 Points of PPFD @ 20cm Height / Test by Spectrometer PG200N						
Spectrum	Power	1	2	3	4	5
RBW	35W	60.15	76.78	80.03	71.39	56.63
DD	25///	EE 1	72.0	72.0	71.2	E0 0



ideal for High Power >100W

Features:

- Built-in driver to extend the fixture length by custom request
- 3 colors dimmable seperately for LAB experiment or Standard Full Spectrum for GreenHouse
- Red/ Blue/ White spectrum for all growing stages.
- High PPFD for better light efficiency
- Select high efficiency LEDs chips for better light distribution



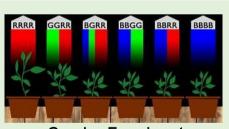
Specifications:

Model Name	ARES series - 3 colors Dimmable	Standard Full Spectrum			
Model No.	ARES-RBW-150D	ARES-RBW-100			
Input Voltage	120-24	10VAC			
Rated Power	Max. 150W ± 7% Red: 50W , White: 50W, Blue: 50W	Max. 100W			
Spectrum	Red/Blue/White Red/Blue/White				
LED Q'ty (pcs)	RED:336pcs / White:300pcs / Blue: 300pcs				
LED lifespan	>30,00	00 hrs			
Beam Width	12	0°			
Approval	CE Declaration ,	RoHS Compliant			
Waterproof Grade	IP 54				
Distance from Plants	Best PPFD @100~150cm				
Dimension	L150 x W10 x H4.35 cm	L120 x W10 x H4.35 cm			
Weight(g)	2.2kg/pc 1.8kg/pc				
Product finish	Aluminum fixture , PC diffuser				
	All parameters tested under 25°C amb	ient temperature			

Applications:







Growing Experiment

Spectrum Available:

■ RBW = Deep Red , Blue , White



Installation: (Hang on Top)









Push bottom to adjust hang distance (Max. distance adjustable: 35cm)