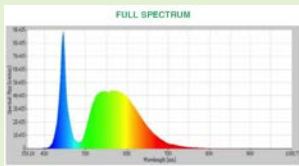
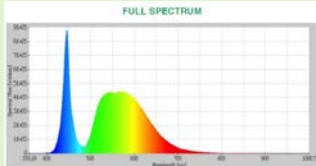


# Horticulture Lighting Products

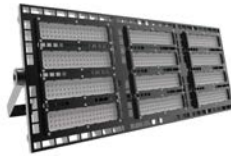
## LED FIXTURES



Model Number	PH-SL600UF-L	PH-SL1200UF-L
<b>Ideal Applications</b>	Greenhouses, Indoor Cannabis. 8'-10' ceilings.	Greenhouses, Indoor Cannabis. 12'-15' ceilings.
<b>Application-Details</b>	High lighting output fixture, replaces 1000W HPS systems.	Highest Powered fixture, replaces 1500W-2000W HPS Systems.
<b>Power Input VAC</b>	90-305VAC	90-305VAC
<b>Power Consumption</b>	600W	1200W
<b>Power Supply</b>	Integrated	Integrated
<b>PPF (μmol/s)</b>	1650	3300
<b>Spectrum-Fixed/Tunable</b>	Fixed	Fixed
<b>Efficiency (μmol/j)/(μmol/W)</b>	2.75	2.75
<b>Mounting Height</b>	18"-24"	24"-48"
<b>Coverage Area</b>	4'x4'	8'x8'
<b>Cooling</b>	Passive	Passive
<b>Length (in.)</b>	14.9"	17.6"
<b>Width (in.)</b>	14.9"	16.3"
<b>Height (in.)</b>	23.4"	27.9"
<b>Life/Intensity Depreciation</b>	L70 50,000 HRS	L70 50,000 HRS
<b>Warranty</b>	5-Year	5-Year
<b>Spectral Distribution</b>		
<b>Driver Brand</b>	600W Meanwell	2 x 600W Meanwell
<b>LED Technology</b>	600W COB Flipchip	1200W COB Flipchip
<b>Certification</b>	ETL	ETL

# Horticulture Lighting Products

## LED FIXTURES

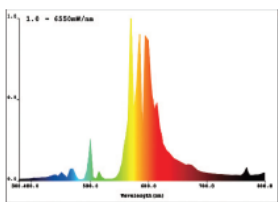
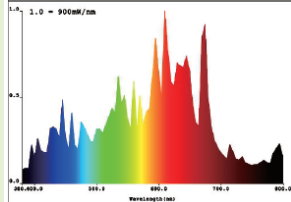
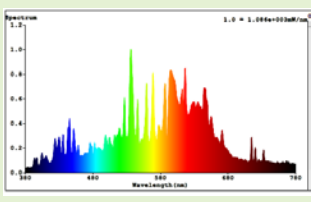


Model Number	PH-HB600U-G	PH-LT180U-S
Ideal Applications	Indoor Cannabis, Vertical Farming Cannabis, tomatoes, and other fruiting crops	Vertical Farming, Research facilities, Home gardener, and Germination.
Application-Details	High lighting output fixture, slim form factor ideal in limited spaces. Ideal for fruiting crops.	Mid-tier intensity fixture, tunability provides versatility from tomatoes and peppers to leafy greens and arugula.
Power Input VAC	120-277VAC	120-277VAC
Power Consumption	600W	180W
Power Supply	Separate	Integrated
PPF ( $\mu\text{mol/s}$ )	1000	300
Spectrum-Fixed/Tunable	Fixed	Tunable
Efficiency ( $\mu\text{mol/j}$ )/( $\mu\text{mol/W}$ )	1.66	1.7
Mounting Height	12"-24"	6"-18"
Coverage Area	4'4'	2'x4'
Cooling	Passive	Passive
Length (in.)	37.4"	48"
Width (in.)	17.71"	7.28"
Height (in.)	2.71"	3.75"
Life/Intensity Depreciation	L90 25,000 HRS	L70 25,000
Warranty	3-Years	3-Year
Spectral Distribution		
Driver Brand	3 x 200W Meanwell Drivers	
LED Technology	Lumiled Chips	
Certification	UL/CUL	

## Horticulture Lighting Products

### HID FIXTURES

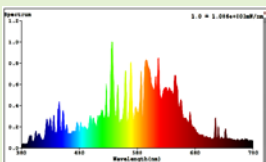
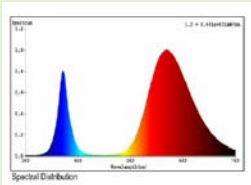
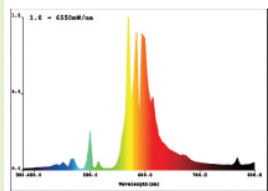


Model Number	PH-1000HPS-F-DE	PH-MHF630130	PH-MHF315130
<b>Ideal Applications</b>	Greenhouses, Indoor, commercial agriculture.	Greenhouses, Indoor, commercial agriculture.	Greenhouses, Indoor Cannabis, arugula, peppers, fruiting crops.
<b>Application-Details</b>	High Powered HPS system, ideal for large scale cultivators, Cannabis, Floriculture and High ceiling applications.	High Powered CMH System, Ideal for large scale cultivators, Cannabis, Floriculture and High Ceiling Applications.	Versatile light, medium-tier intensity, full spectrum, suited for crops where taste and quality is priority.
<b>Power Input VAC</b>	120-277VAC (347V Special Order)	120-277VAC (347V Special Order)	120VAC
<b>Power Consumption</b>	1000W	630W	315W
<b>Base/Lamp Type</b>	K12X30S [ K12x30s]	PGZ18	Integrated
<b>PPF (μmol/s)</b>	2050	1100	550
<b>Spectrum-Fixed/Tunable</b>	Fixed	Fixed	Fixed
<b>Efficiency (μmol/j)/(μmol/W)</b>	2	1.75	1.75
<b>Mounting Height</b>	36"-48"	24"-48"	12"-24"
<b>Coverage Area</b>	6'x6'-8'x8'	6'x6'-8'x8'	3'x3'-5'x5'
<b>Cooling</b>	Passive	Passive	Passive
<b>Length (in.)</b>	Ballast-10.62" Reflector-9.05"	Ballast-10.62" Reflector-9.05"	Ballast-7.59" Reflector-9.13"
<b>Width (in.)</b>	Ballast-7.28" Reflector-12.2"	Ballast-7.28" Reflector-12.2"	Ballast-5.11" Reflector-8.66"
<b>Height (in.)</b>	Ballast-4.25" Reflector 4.13"	Ballast-4.25" Reflector 4.13"	Ballast-2.64" Reflector 3.62"
<b>Life/Intensity Depreciation</b>	10,000 HRS	10,000 HRS	10,000 HRS
<b>Warranty</b>	3-Year Ballast (Lamp and Reflector 1 Year)	3-Year Ballast (Lamp and Reflector 1 Year)	3-Year Ballast (Lamp and Reflector 1 Year)
<b>Spectral Distribution</b>			
<b>Driver Brand</b>	N/A	N/A	N/A
<b>LED Technology</b>			
<b>Certification</b>	ETL/CETL	ETL/CETL	ETL/CETL

# Horticulture Lighting Products

## HID & LED LAMPS



Model Number	PH-MHL315130	L18T8SE415	PH-1000HPS-L-DE
<b>Ideal Applications</b>	Greenhouses, Indoor Cannabis, arugula, peppers, fruiting crops.	Arugula, Cilantro, Basil, and similar crops.	Greenhouses, Indoor, commercial agriculture.
<b>Application-Details</b>	Versatile light, medium-tier intensity, full spectrum, suited for crops where taste and quality is priority.	Low-tier intensity, seedlings, clones.	High-Powered HPS system, ideal for large-scale cultivators, Cannabis, Floriculture and High ceiling applications.
<b>Power Input VAC</b>	120VAC	120-277VAC	170-250V
<b>Power Consumption</b>	315W	18W	1000W
<b>Base/Lamp Type</b>	PGZ18	T8	K12X30S [ K12x30s]
<b>Ballast ANSI CODE</b>	M154	N/A-Internal Driver	
<b>PPF (μmol/s)</b>	550	25	2050
<b>Spectrum-Fixed/Tunable</b>	Fixed	Fixed	Fixed
<b>Efficiency (μmol/j)/(μmol/W)</b>	1.75	1.4	2
<b>Mounting Height</b>	12"-24"	6"-12"	36"-48"
<b>Coverage Area</b>	3'x3'-5'x5'	4'x1'	6'x6'-8'x8'
<b>Cooling</b>	Passive	Passive	Passive
<b>Life/Intensity Depreciation</b>	10,000 HRS	L70 25,000 HRS	10,000 HRS
<b>Warranty</b>	2-Year	2-Year	
<b>Spectral Distribution</b>			
<b>Driver Brand</b>	N/A		
<b>LED Technology</b>	N/A		
<b>Certification</b>	Not Applicable	UL	Not Applicable