













2. SPECIFICATION

→ General product information

INDOOR SUN = IND
PHILIPS = PH

Product Name	Lucius ReCom SE / DE 600W HV Kit	Lucius ReCom DE 800W HV Kit	Lucius ReCom DE 1000W HV Kit
Application	Horticultural Industry / Green Fields / Ideal for flowering		
Inclusion	Lucius ReCom Ballast, ReCom Bracket - Focal / Broad Reflector - Indoor Sun Lamp / Philips Lamp		
Light Kit PPF Efficacy	IND:1.72 PPF/W PH:1.88PPF/W	IND: 1.73 PPF/W	IND:1.85 PPF/W PH: 1.88PPF/W
Maximum PPF	IND:1200 µmol/s PH:1300µmol/s	IND:1620 µmol/s	IND: 2220 µmol/s PH: 2270µmol/s
Light Kit Weight	4.4Kg / 9.7lbs	5.5Kg / 12.1lbs	5.6Kg / 12.3lbs
Operating Temperature	-20 to 40°C / -4 to 104°F		
Shipping and Storage Temperature	-40 to 70°C / -40 to 158°F		
Operating Humidity	0% to 90% non-condensing		
Waterproof and dustproof	IP20		

→ Lucius ReCom Ballast




INPUT		600W	800W	1000W	OUTPUT		600W	800W	1000W
Nominal Voltage		USA:208/240V or 120/208/240V AU/NZ, UK, EU, Asia: 220/230/240V			Output Frequency		>100KHz Ultra High Frequency 		
Voltage Range		USA: 195-265 or 110-265V AU/NZ, UK, EU, Asia: 195-265V			Voltage Range		<300V		
Max Current		3A @ 240V 6A @ 120V	4A @ 240V 8A @ 120V	5A @ 240V 10A @ 120V	Max Ignition		5KV		
Inrush Current		< 30A/0,8mSec	< 40A/0,8mSec	< 50A/0,8mSec	Ignition Interval		1-5-5-5 minute *After 5 ignition failed attempts to turn the lamp on, the ballast will be shut down and the LED will alarm error. See LED Status . To reset the ballast error, disconnect and reconnect the power.		
Input Frequency		50/60Hz			Plug		 AU/NZS 3112  US BAA5R  UK & EU IEC 60320 C-13		
Efficiency		97%			Cable		USA: 8ft, 3x16AWG AU/NZ, UK, EU, Asia: 2.4m, 3x1.5mm ² *All input cables are equipped with the magnet ring to meet EMC requirements.		
Power Factor		≥0.97			Control Knob		600W: MINIMUM - 400W - 600W - BOOST - LMC 800W: 400W - 600W - 800W - BOOST - LMC 1000W: 650W - 800W - 1000W - BOOST - LMC		
THDv		<10%			Controller (Optional)		Able to connect to the Lucius Light Management Controller. Dimming, timing, temperature setting, simulating sunset and sunrise. See Lucius Light Management Controller instruction manual for more details.		
Plug		 AU/NZS 4417  US 240V NEMA 6-15  US 120V NEMA 5-15  UK BS1363A  EU DIN 49441			Signal Wire		3,5mm Male Jumper Cable 5m		
Cable		USA: 8ft, 3x16AWG AU/NZ, UK, EU, Asia: 2.4m, 3x1.5mm ² *All input cables are equipped with the magnet ring to meet EMC requirements.			Ballast Dimension LxWxH		600W: 316x117x82,5mm 800W: 302x190x106mm 1000W: 302x190x106mm		
Over-voltage		Protection mode is activated when the voltage is greater than 275V.			Ballast Weight		600W: 3,3Kg / 7,2lbs 800W: 4,4Kg / 9,7lbs 1000W: 4,5Kg / 9,9lbs		
Under-voltage		240V: Undervoltage between 175 ~ 195v leads to 90% output power drop, Protection mode is activated when the voltage is less than 175V. 120V: Undervoltage between 95 ~ 110v leads to 90% output power drop, Protection mode is activated when the voltage is less than 95V.			Compatible Lamp		600W: HPS 600W, HPS 600W/400V, HPS DE 600W/400V, MH 600W 800W: HPS DE 800W/400V 1000W: HPS 1000W, HPS DE 1000W/400V, MH 1000W		
Short Circuit		When the output is shorted, the ballast will be shut down & the LED will alarm error for short circuit protection. See LED Status . To reset the ballast error, disconnect and reconnect the power.			Certification		  		
Open Circuit		When the output is disconnected for any reason during operation, the ballast will shut down & the LED will alarm error for open circuit protection. See LED Status . To reset the ballast error, disconnect and reconnect the power.			Regulatory Standards		IEC 61347-1:2007+A1:2010 (also as used AS/NZS 61347.1:2002) IEC 61347-2-12:2005+A1:2011 EN 55015(AS/NZS CISPR 15:2011) IEC 61000		
Over-temperature		When ambient temperature (Ta) is more than 40°C, the ballast will shut down & the LED will alarm error for high temperature protection. To reset the ballast error, keep the ambient temperature in the allowed operating range, disconnect & reconnect the power.			Manufacturing Code		600W AU/NZ: LRCE-6002441-HM1CDHA US: LRCE-6002441-HM1CDHS UK: LRCE-6002441-HM1CDHK EU: LRCE-6002441-HM1CDHE 800W AU/NZ: LRCE-8002441-HM1CDSA US: LRCE-800122441-HM1CD5S UK: LRCE-8002441-HM1CD5K EU: LRCE-8002441-HM1CD5E 1000W AU/NZ: LRCE-10002441-HM1CD5A US: LRCE-1000122441-HM1CD5S UK: LRCE-10002441-HM1CD5K EU: LRCE-10002441-HM1CD5E		
Lamp END of Life / Rectification		The ballast can protect against end of lamp life rectification.			LED Status		ON: Power is applied and the ballast is operating, (LED illuminated) OFF: Power is not available at the input, (LED off) Blinking: Protection Mode.		
Time Delay		All ballasts have built in ignition delay (0-6S randomly) to reduce the starting current.							

→ Lamps

Brands	INDOON SUN			PHILIPS	
Lamp Power	600W	800W	1000W	600W	1000W
Type	HPS DE High Voltage 400V			HPS SE High Voltage 400V	HPS DE High Voltage 400V
Lamp Voltage	205	235	245	225	250
Max PPF	1200µmol/s	1620µmol/s	2220µmol/s	1300µmol/s	2270µmol/s
Lamp PPF Efficacy	1.79 PPF/W	1.82 PPF/W	1.92 PPF/W	1.94 PPF/W	1.96 PPF/W
Lumen	95000	125000	160000	100000	164000
CCT - CRI	2100K - 28%	2100K - 35%	2100K - 35%	2000K - 30%	2000K - 37%
Base / operating position	DE (K12 x 30s) / Horizontal (H)			SE (E39/40) / Universal	DE (K12 x 30s) / Horizontal (H)
Dimension (L x Dia)	393x33mm			279x47mm	394x33,5mm
Manufacturing Code	HPS600/H/T33/DE/PRO HV	HPS800/H/T33/DE/PRO HV	HPS1000/H/T33/DE/PRO HV		

→ Fixture

REFLECTOR	Type	FOCAL SE	FOCAL DE	BROAD SE	BROAD DE	
	Material	Stucco Aluminium Miro® 4				
	Reflectivity	95%				
	Application	Best choice for the professional gardeners Focal light concentration Highest average affective light Increased light penetration deep into plant canopy, ideal for high ceiling		Low ceiling preferred option Hanging close to the plant canopy Low bay / Wide spread Vented reflector reduce heat over plant		
	Compatible Lamps	HPS SE 800W HPS SE 600W/400V HPS SE 400W CMH 315W MH SE 800W / 600W / 400W	HPS DE 1000W/400V HPS DE 800W/400V HPS DE 600W/400V CMH DE 630W/400V	HPS SE 800W HPS SE 600W/400V HPS SE 400W CMH 315W MH SE 400W	HPS DE 1000W/400V HPS DE 800W/400V HPS DE 600W/400V CMH DE 630W/400V	
	Grow Light Coverage Area	See the table of Grow Light Coverage Area on the packaging box				
	Manufacturing Code	LF-F	LF-F2	LF-B	LF-B2	

RECOM DE BRACKET	Lamp Holder	SE (E39 / 40)	DE (K12x30s)
	Plug	 AU/NZS 3112	 US BAASR
	Cable	 UK & EU IEC 60320 C-14	
	Manufacturing Code	AU : LRCF-4A US : LRCF-4S UK : LRCF-4K EU : LRCF-4E	AU : LRCF-2A US : LRCF-2S UK : LRCF-2K EU : LRCF-2E

3. SAFETY PRECAUTIONS & WARNINGS

- The lamp and reflector can reach very high temperatures. Do not touch during or immediately after use. Allow sufficient time before touching the lamp or reflector after use.
- Do not hold and carry any of the products by the power cords, or pull the power cord with excessive force.
- Do not use the fixture outside the rated temperature range or outside the rated voltage range.
- Do not attempt to disassemble, repair, or modify the fixture.
- Never power on the ballast without the lamp connected.
- Do not use any of the products if any damage is present.
- Do not turn the ballast on and off rapidly, as this can cause damage to the ballast and the lamp.
- This product complies with all necessary radio interference regulations; however, there may still be a radio interference effect on sensitive equipment.
- This ballast should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 9kHz – 1GHz. Relocate the ballast should any interference occur.
- Avoid coiled cords. Coiled cords may lead to electromagnetic interference.
- Never stack ballasts. Operating ambient temperature of the ballast is -20 to 40°C (-4 to 104°F). By providing the ballast with ambient air temperature of less than 30°C (86°F), it can work more efficiently and avoid any damage.
- Before installation of the ballast, lamp & reflector, ensure the light kit is disconnected from any power and controller.
- Do not position the fixture in the following locations:
 - Locations subject to direct water exposure
 - Locations subject to direct vibration or shock
 - Locations subject to excessive dust
 - Locations subject to direct sunlight
 - Locations subject to condensation or icing
 - Locations subject to corrosive or explosive gases
 - Locations subject to strong static electricity or harmonics