














2. SPECIFICATION

→ General product information

Product Name	Lucius ReCom CMH DE 630W Kit
Application	Horticultural Industry. Ideal for the entire plants cycle.
Inclusion	Lucius ReCom Universal 630W Ballast - ReCom DE Bracket - Focal Reflector DE - Indoor Sun Lamp
Light Kit PPF Efficacy	1.74 PPF/W
Maximum PPF	1130 µmol/s
Light Kit Weight	4.4Kg / 9.7lbs
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 Universal 630W Ballast



INPUT		OUTPUT	
Nominal Voltage	208/240V	Output Frequency	>100KHz Ultra High Frequency 
Voltage Range	195–265V	Voltage Range	<300V
Max Current	3A	Max Ignition	5KV
Inrush Current / Input Frequency	Inrush < 30A/0.8mSec 50/60 Hz	Ignition Interval	1-5-5-5-5 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.
Efficiency	97%	Plug	    AU/NZS 4417 US 240V NEMA 6-15 UK BS1363A EU DIN 49441
Power Factor	≥ 0.98	Cable	USA: 8in, 3×16AWG AU/NZ, UK, EU, Asia: 2.4m, 3×1.5mm ² *All input cables are equipped with the magnet ring to meet EMC requirements.
THDv	<10%	Control Knob	600W - 630W - LMC
Plug	    AU/NZS 4417 US 240V NEMA 6-15 UK BS1363A EU DIN 49441	Controller (Optional)	Able to connect to the Lucius Light Management Controller. Dimming, timing, temperature setting, simulating sunset and sunrise. See Lucius Light Management Controller user guide for more details.
Cable	USA: 8ft, 3×16AWG AU/NZ, UK, EU, Asia: 2.4m, 3×1.5mm ² *All input cables are equipped with the magnet ring to meet EMC requirements.	Signal Wire	3.5mm Male Jumper Cable 5m
Over-voltage	Protection mode is activated when the voltage is greater than 275V.	Ballast Dimension LxWxH	316x117x82.5mm
Under-voltage	Under-voltage between 175 – 195V leads to 90% output power drop. Protection mode is activated when the voltage is less than 175V.	Ballast Weight	3.3Kg / 7.2 lbs
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.	Compatible Lamp	CMH DE 630W HPS SE 600W MH 600W HPS DE 600W/400V HPS SE 600W/400V
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.	Certification	   
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.	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
Lamp END of Life / Rectification	The ballast can protect against end of lamp life rectification.	Manufacturing Code	AU/NZ: LRCE-6302441-CHM1CDHA US: LRCE-6302441-CHM1CDHS UK: LRCE-6302441-CHM1CDHK EU: LRCE-6302441-CHM1CDHE
Time Delay	All ballasts have built in ignition delay (0-6S randomly) to reduce the starting current.		
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.		

→ Indoor Sun Lamp

Lamp Power	630W
Type	CMH Double Ended PRO HV
Lamp Voltage	200
Max PPF	1130µmol/s
Lamp PPF Efficacy	1.8 PPF/W
Lumen	70,000
CCT - CRI	4200K - 95%
Base / operating position	DE (K12 x 30s) / Horizontal (H)
Dimension (L x Dia)	393x33mm
Manufacturing Code	CMH630/H/T33/DE/4.2K/PRO HV

→ Fixture

REFLECTOR	Type	Focal DE	BROAD DE
	Material	Stucco Aluminium Miro® 4	
	Reflectivity	95%	
	Application	Best choice for the professional gardeners Focal light concentration Highest average effective 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 DE 1000W/400V HPS DE 600W/400V	HPS DE 800W/400V CMH DE 630W/400V
	Grow Light Coverage Area	See the table of Grow Light Coverage Area on the packaging box	
	Manufacturing Code	LF-F2	LF-B2

RECOM DE BRACKET	Lamp Holder	DE (K12x30s)
	Plug	 AU/NZS 3112 US BAASR  UK & EU IEC 60320 C-14
	Cable	USA: 6 in , 3x 16AWG AU/NZ, UK, EU, Asia: 0.15m 3x1mm ²
	Manufacturing Code	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 9 kHz – 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