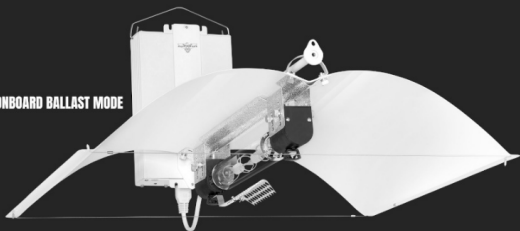




ONBOARD BALLAST MODE



with MEDIUM DEFENDER REFLECTOR

HELLION 630W DE-CMH LIGHTING KIT

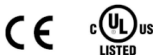


Technical Specifications:
HELLION CMH DIGITAL BALLAST DE 630W



OPERATING PARAMETERS

Current at 630W	120V/5.8A 240V/2.9A 277V/2.5A
Output wattage	315/450W/550W/630W
Output frequency	200Hz
Efficiency	> 94%
Ignition voltage	< 5.0KV
Ambient operating temp	-20 – 40°C
Max case temperature	90°C
Standard	IEC 61347
EMC	EN55015



INPUT PARAMETERS

Input voltage	120V/240V/277V
Input frequency	50/60Hz
External Control	0 to 10V via RJ11 sockets

PHYSICAL CHARACTERISTICS

Weight	3.5kg
Dimensions	292 x 175 x 74mm

LAMP REQUIREMENTS

Type	CMH 630W
Lamp voltage	180~220V
Max lamp distance	4.0m (13ft)

PROTECTION

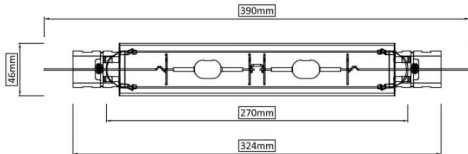
Short circuit	✓
Open circuit	✓
Ignition failure	✓
Overheated	✓
EOL	✓
Soft start	✓
Hot re-strike	✓

PERFORMANCE

THD	< 5%
PF	> 0.97
OCV	< 300V

Specification Sheet

DE CMH 630W 3100K Type-O Lamp



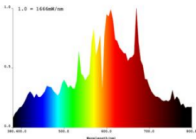
Physical Specifications

Overall length:	390mm
Glass base to base:	270mm
Glass jacket:	324mm
Glass diameter:	46mm
Weight:	283g

Details

Manufacturer:	Hygro International Pty Ltd.
Product #:	DECMH63031-O
Product name:	DE CMH 630W 3100K Type-O Lamp
Description:	Horticultural Ceramic Metal Halide Lamp providing high PAR output

Spectrum



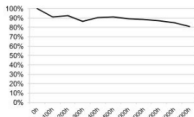
Intended Use

Socket:	To be installed into double ended lamp socket SPPDS-A or equally rated
Socket pulse rating:	≥5kva
Fixture rating:	Open/closed
Burning position:	Horizontal ±15°
Bulb designation:	T40
Base designation:	K12x30s

Electrical Specifications

Operating voltage:	200V
Operating current:	3.15A
Operating wattage:	630W

Lumen Maintenance



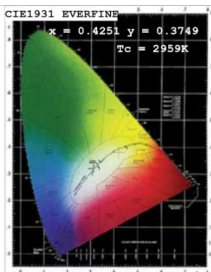
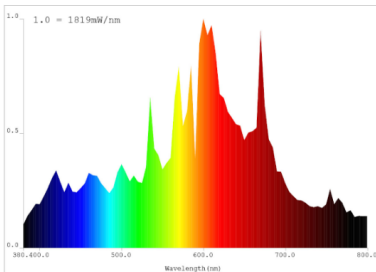
Material

Arc tube:	High grade Japanese ceramic
Frame:	Nickle plated
Connection Wire:	Nickle plated
Glass jacket:	Clear crystal quartz enriched with UV inhibitors
Mercury Content:	48 mg

Output Specifications

Luminous flux:	64,100 lumens
Lumen/watt:	101.7
CRI:	88.0 Ra8
PPF:	1200 μmol per m ² /s
Color temperature:	3100k
Rated average life:	12,000 hours

Light Source Test Report

**CIE Color Parameters:**

Chromaticity Coordinate: $x=0.4251$ $y=0.3749$ $u=0.2557$ $v=0.3383$

CCT: $T_c = 2959K$ Prcp WaveL: $\lambda_p = 587.8nm$ Purity=40.1%

Peak WaveL: $\lambda_p = 600nm$ Half Width: $\Delta\lambda = 56.9nm$ Ratio: R=25.5% G=70.8% B=3.7%

Average Wave: 600nm

Rendering Index: Ra=87.4

R1 =91 R2 =98 R3 =90 R4 =87 R5 =93 R6 =94 R7 =82 R8 =64

R9 =26 R10=96 R11=88 R12=89 R13=93 R14=95 R15=85

Photo Parameters:

Flux: $\Phi = 64094(lm)$ Luminous efficacy: 102.04(lm/W) Luminous Power: $P = 291.6(W)$

Electrical Parameters:

U=197.1V I=3.184A P=628.0W PF=1.000

Instrument Status:

Scan Range: 380.0nm-800.0nm

Interval: 5.0nm

$I_p = 11275$

REF = 12878

$\% = 0.039\%$

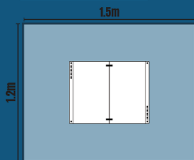
TMP (PMT) = 21.0degrees centigrade

PAR:1202

Product Type: MH630W-3K DE
Instrument: PMS-50 System
Temperature: 0.0deg
Test Operator: YXC

Manufacturer: Precision Products Test
Test Department: Precision Products
Humidity: 65.0%
Test Date: 2018-03-03

OPTIMAL LAYOUT

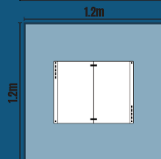


AREA: 1.8m²
HANGING HEIGHT
RANGE: 45-75cm

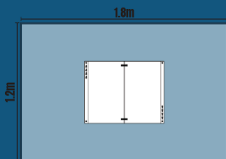
RECOMMENDED LIGHTING LAYOUTS

All layout suggestions
require Super Spreaders in order
to meet recommended hanging
height ranges.

ALTERNATIVE LAYOUTS

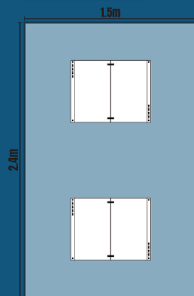


AREA: 1.44m²
HANGING HEIGHT
RANGE: 45-75cm



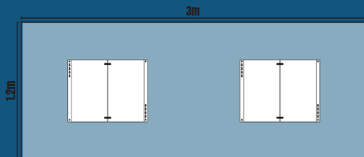
AREA: 2.16m²
HANGING HEIGHT
RANGE: 60-90cm

2-LIGHT LAYOUTS



AREA: 3.6m²
HANGING HEIGHT RANGE: 45-75cm

To maximise efficiency fit reflective
sheeting to surrounding walls or
house lights in a grow tent.



AREA: 3.6m²

HANGING HEIGHT RANGE: 45-75cm

PPF 1202µm (3K Lamp)