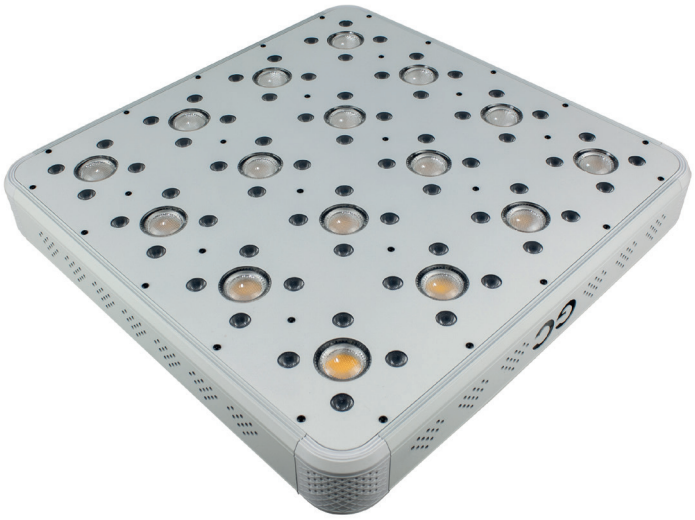
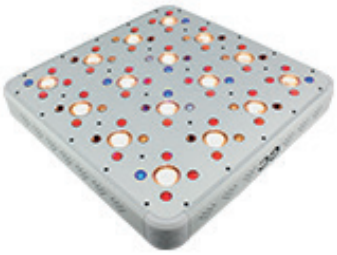
Greenception LED GC-16

The GC-16 was designed as a 1:1 replacement for existing sodium vapour lamps. It delivers the same crop yield whilst saving up to 40 per cent in energy. The GC-16 can be switched. The light spectrum as well as the energy consumption can be adjusted to the respective phase (full spectrum/growth/bloom).

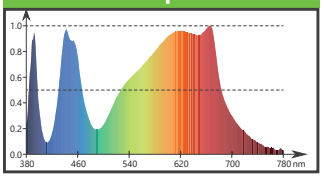
16 highly efficient full spectrum PAR COB chips are the key components of the lamps. This chip is supplemented by 4 x SMD chips per module. These supply additional blue, red or infrared frequencies to support the cultivation of your favourite plants during their growing and flowering phases in a particularly targeted way.

Data sheet	GC-16
Number of clusters	16
Number of switch steps	4
Power consumption	512 W
· 2 x full spectrum	64 W
· 4 x full spectrum	128 W
Growth spectrum	64 W
Flowering spectrum	256 W
Equivalent to ND lamps	600 W NDL/HPS
Dimensions	525 x 525 x 70 mm
Weight	9.86 kg
Photons flux density (15cm)	~ 2700 µmol/m²/s
Photons flux density (30cm)	~ 2200 µmol/m²/s
Efficiency (Depending on switch step)	2.4 – 2.8 µmol/J
Start-up/ignition time	<1 Sec.
Housing colour	White
Beam angle	COB: 90°, LED: 90°
Nominal service life	40,000 hrs.
Switching cycles	> 50,000
Cable	IEC C13/C14
Voltage	220-240V ~50-60Hz
Material	· Coated metal · Aluminium · Hard plastic
Built-in chips (COB: Trade secret Optimised for use the cultivation of plants. Spectrum follows the McCree-curve. ca. 3,150 K, CRI = min. 85)	· 660nm red: Osram Oslon SSL · 6400 K White: CREE XP-E · UV: Nichia NVSU

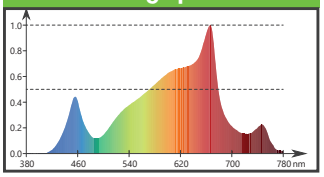




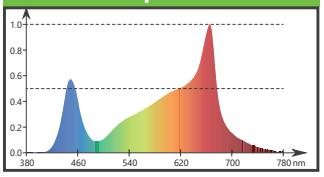
Growth spectrum



Flowering spectrum



Full spectrum



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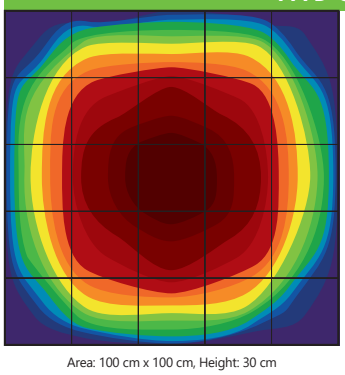

Area: 100 cm x 100 cm, Height: 30 cm

3200 - 3000	1250 - 1000	500 - 400
3000 - 2800	1000 - 900	400 - 300
2800 - 2400	900 - 800	300 - 200
2400 - 2000	800- 700	200 - 100
2000 - 1600	700 - 600	100 - 50
1600 - 1250	600 - 500	50 - 0