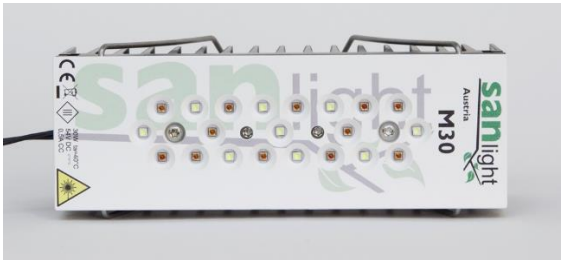
M30 Modular Horticulture LED Luminaire

Modular expandable LED luminaire system for horticultural use. System includes LED module and power converter. Continuous broadband emission spectrum from 400nm to 760nm. Suitable for all growth stages. Passively cooled. Mounting clips included allowing flexible installation.

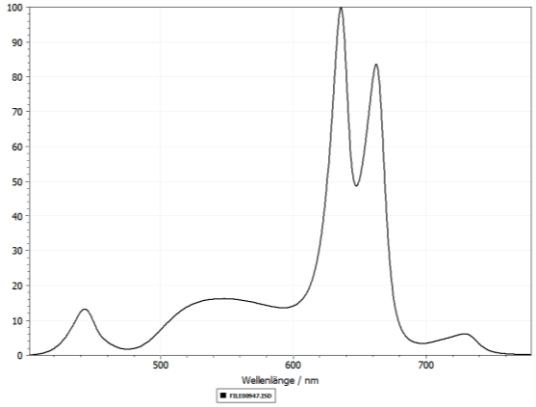


Accessory: see www.sanlight.info

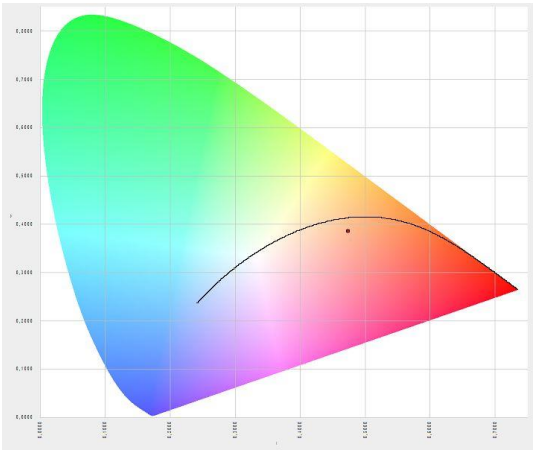
Electrical Properties	Value	Unit
typical power consumption[1]	30	W
power factor[1]	0,98	
input voltage range[1]	100 – 240	V (AC: 50/60Hz)
max. input current[1]	0,34	A
max. output voltage[2]	58	V (DC)
constant output current[2]	0,5	A
operating voltage[3]	<53	V
operating current[3]	0,5	A

Further Properties	Value	Unit
emission wavelength range	400 – 760	nm
$PPF_{(400\text{-}800nm)}$[4]	77	µmol/s
module efficiency[5]	2,8	µmol/J
system efficiency[6]	2,6	µmol/J
photon ratio 400-500nm	5	%
photon ratio 500-600nm	22	%
photon ratio 600-700nm	70	%
angle of radiation	90	°
x - colour space coordinate[7]	0,47	warm white colour impression
y - colour space coordinate[7]	0,38	
dimensions[2]	160 x 22 x 50	mm
dimensions[3]	148 x 56 x 50	mm
weight[2] (incl. AC-cable)	240	g
weight[3] (incl. DC-cable)	480	g
AC-cable length	1,5	m
DC-cable length	3	m
protection rating[2]	IP20	
protection rating[3]	IP20	
allowed ambient temperature range for operation	5 – 40	°C
max. relative air humidity for operation	80	%

Spectral Intensity Distribution



Colour Space Location according to CIE 1931



[1] mains side
[2] constant current power converter
[3] LED-module
[4] Photosynthetic Photon Flux LED-module (measurement range: 400-800nm)
[5] $PPF_{(400\text{-}800nm)}$ per Watt electrical power consumption LED-module
[6] $PPF_{(400\text{-}800nm)}$ per Watt electrical power consumption mains side
[7] according to CIE 1931

