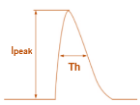
PRODUCT DATASHEET
HORTILED® Top *Sirius G2 DIM*

MECHANICAL SPECIFICATIONS

Parameter	Value	Unit	Remarks
Lighting Unit (LU) Dimensions	475 x 220 x 80	mm	*(1x) Lighting Unit per system.* *The Lighting Unit has standard 2,5 meters cord attached.*
LU - Weight	6,3	kg	
LU – Housing Material	Aluminum		
LU – Ingress Protection Rating	IP66		*Applies only with fully assembled and engaged connectors*
Driver Unit (DU) Dimensions	300 x 140 x 50	mm	
DU – Weight	3,5	kg	
DU – Housing Material	Aluminum		
DU – Ingress Protection Rating	IP66 / IP67		*Applies only with fully assembled and engaged connectors*
Ambient Temperature	0 – 30°C	°C	
Relative Air Humidity	5 – 85 %	% RH	*Non-condensing*

ELECTRICAL SPECIFICATIONS

Parameter	Value	Unit	Remarks
Mains Voltage EU	400	Vac	*L-L, 50 – 60 Hz, Recommended: (390Vac – 410 Vac)*
Power Draw (max.)	525	W	
Power Factor	0,990 0,970 0,940 0,800 0,510		*Input voltage 400Vac, at 525W load (%100)* *Input voltage 400Vac, at 394W load (~%75)* *Input voltage 400Vac, at 263W load (~%50)* *Input voltage 400Vac, at 131W load (~%25)* *Input voltage 400Vac, at 53W load (~%10)*
Inrush Current (peak)	< 15	A	*Input voltage 400Vac,* *25°C cold start,* *measured at 50% I_{peak},* *T_h = 2,3 ms* 
Surge Transient Protection	2 2	kV	*Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us* *Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us*
Leakage Current	< 1,0	mA	*RMS, according to IEC61347-1*
Protection	*Use MCB (Miniature Circuit Breaker) or MMS (Manual Motor Starter)*		
Dimming	*DIM-ready Driver Unit, with 0-10V protocol, dimmable down to 10%*		

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LIGHT SPECIFICATIONS

Parameter	Value	Remarks
Radiation Angle	Deep Wide Beam	*120°- degree LEDs* *Wide light distribution with high uniformity*

HORTILED® Top *Sirius G2 DIM* Light Recipe[1]	System PF[2] Deep | Wide (µmol/s)	System PPF[2] Deep | Wide (µmol/s)	Flux Tolerance (+/-)	Spectrum Tolerance[3] (+/-)	System Power Draw (W)	System PF Efficacy (µmol/J)	System PPF Efficacy (µmol/J)
[100.0500.9500]	1808 | 1627	1800 | 1620	5%	1%	520	up to 3,48	up to 3,46
[100.0506.8900]	1714 | 1543	1700 | 1530	5%	1%	510	up to 3,36	up to 3,33

1- Can be tailored on a project-specific basis. Minimum quantities apply.
2- LEDs with 120°- degree radiation angle.
3- By the moment of installation: (Time = 0)

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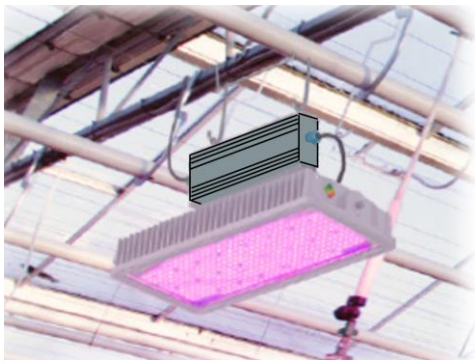
OTHER SPECIFICATIONS & REMARKS

Parameter	Value	Remarks
Risk Group accr. to IEC 62471	LED Risk Group 2	
Expected Lifespan – Lighting Unit	L90B10 at 5 years	*maximum 5600 hours of operation per year*
Expected Lifespan – Driver Unit	5 years	
Wireless control – Mesh Network Activation fee (one-time)	The fixtures are digitally controllable as agreed between the client and Hortilux. After activation, Hortilux will no longer be involved with the activation itself, and the client can continue to use this digital control of the fixtures at any time. No updates will take place. If an update to the system becomes available and is desired by the client, Hortilux can, if possible, provide a quote for the requested update.	

ATTENTION: This product is a grow-light system intended for overhead illumination of horticultural crops. Any use other than the approved & described intended use, is considered unintended use. Hortilux Schréder B.V cannot be held responsible for possible (consequential) damage caused by improper, incorrect or inadvisable use.



REMARK: The product data reflects a comprehensive integration of measurements from stabilized fixtures under their defined operating conditions. Laboratory tests are conducted in accordance with **DIN EN 13032** and **EN 13032-4:2015** standards, using highly accurate, calibrated equipment. Additionally, the data is supported by field measurements involving multiple fixtures installed across diverse grid configurations, electrical network settings, and customer-specific environmental conditions. This approach ensures the data is both reliable and representative of real-world performance, covering key photometric and electro-mechanical metrics. For luminaires with a dynamic spectrum, the measurement is performed at 100% power with all LEDs within the 400-800 nm range activated. The light intensity within the 400-700 nm range is measured using a Licor meter (Type: LI-COR LI-190R Quantum Sensor) The light spectrum within the 400-800 nm range is measured using a UPRtek spectrometer (Type: UPRtek PG200N Spectral PAR Meter).

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