



MICRO CLIMA-SERIES™

LED SOLUTIONS





ECONOMIC LUX

ECL02

LED type	Average max. intensity @15cm
PH840 tubes	270 $\mu\text{mol}/\text{m}^2/\text{s}$
L18 tubes	220 $\mu\text{mol}/\text{m}^2/\text{s}$
L28 tubes	485 $\mu\text{mol}/\text{m}^2/\text{s}$
C65 modules	960 $\mu\text{mol}/\text{m}^2/\text{s}$

L SERIES (T8 TUBES)



	L18	L28
Spectra available*	AP67	AP67, AP673L, G2, NS12, Solray
Light efficacy 380 - 820nm (spectrum dependent)	Up to 2,1 $\mu\text{mol}/\text{W}$	Up to 2,1 $\mu\text{mol}/\text{W}$
Distance from the plants	< 0,5 m	< 0,5 m
Ambient operating temperature (placed inside working area)	-10°C up to +40°C	-10°C up to +40°C
Power consumption	18W	28W
Dimensions (length/diameter)	1198mm/26mm	1198mm/26mm
Dimmable	No	No

PH840



	PH840	PH840-D
Spectra available*	840/4000K	840/4000K
Distance from the plants	< 0,5 m	< 0,5 m
Ambient operating temperature (placed inside working area)	-20°C up to +45°C	-20°C up to +45°C
Power consumption	16W	16W
Dimensions (length/diameter)	1200mm/26mm	1200mm/26mm
Dimmable	No	1 - 10V, light output: off, 10 - 100%

C SERIES



	C65
Spectra available*	AP67, AP673L, NS12, Solray
Light efficacy 380 - 820nm (spectrum dependent)	Up to 1,8 $\mu\text{mol}/\text{W}$
Distance from the plants	0,1 - 1,5 m
Ambient operating temperature (placed inside working area)	0°C up to +30°C
Power consumption	65W
Dimensions	1175 x 45 x 33 mm
Dimmable	0 - 10V, light output: off, 6 - 100%



PREMIUM ICH

ECPO2 ECPO3TL

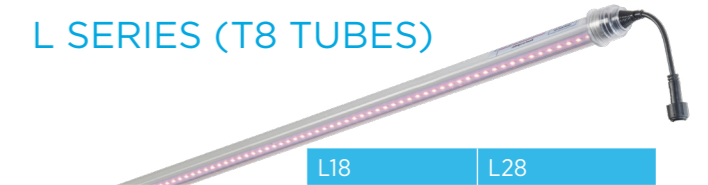
LED type	Average max. intensity @15cm
PH840 tubes	270 $\mu\text{mol}/\text{m}^2/\text{s}$
L18 tubes	220 $\mu\text{mol}/\text{m}^2/\text{s}$
L28 tubes	485 $\mu\text{mol}/\text{m}^2/\text{s}$
C65 modules	960 $\mu\text{mol}/\text{m}^2/\text{s}$

PH840



	PH840	PH840-D
Spectra available*	840/4000K	840/4000K
Distance from the plants	< 0,5 m	< 0,5 m
Ambient operating temperature (placed inside working area)	-20°C up to +45°C	-20°C up to +45°C
Power consumption	16W	16W
Dimensions (length/diameter)	1200mm/26mm	1200mm/26mm
Dimmable	No	1 - 10V, light output: off, 10 - 100%

L SERIES (T8 TUBES)



	L18	L28
Spectra available*	AP67	AP67, AP673L, G2, NS12, Solray
Light efficacy 380 - 820nm (spectrum dependent)	Up to 2,1 $\mu\text{mol}/\text{W}$	Up to 2,1 $\mu\text{mol}/\text{W}$
Distance from the plants	< 0,5 m	< 0,5 m
Ambient operating temperature (placed inside working area)	-10°C up to +40°C	-10°C up to +40°C
Power consumption	18W	28W
Dimensions (length/diameter)	1198mm/26mm	1198mm/26mm
Dimmable	No	No

C SERIES



	C65
Spectra available*	AP67, AP673L, NS12, Solray
Light efficacy 380 - 820nm (spectrum dependent)	Up to 1,8 $\mu\text{mol}/\text{W}$
Distance from the plants	0,1 - 1,5 m
Ambient operating temperature (placed inside working area)	0°C up to +30°C
Power consumption	65W
Dimensions	1175 x 45 x 33 mm
Dimmable	0 - 10V, light output: off, 6 - 100%



MODULAR CLIMATE CHAMBER

MD900 MD1400 MD1650

LED type	Average max. intensity @15cm
L14 tubes	510 $\mu\text{mol}/\text{m}^2/\text{s}$
L18 tubes	340 $\mu\text{mol}/\text{m}^2/\text{s}$
L28 tubes	760 $\mu\text{mol}/\text{m}^2/\text{s}$
L35 tubes	790 $\mu\text{mol}/\text{m}^2/\text{s}$
C65 modules	>1.000 $\mu\text{mol}/\text{m}^2/\text{s}$
C75 modules	>1.000 $\mu\text{mol}/\text{m}^2/\text{s}$
BX90 modules	>1.000 $\mu\text{mol}/\text{m}^2/\text{s}$
BX120 modules	>1.000 $\mu\text{mol}/\text{m}^2/\text{s}$
BX-DNA modules	>1.000 $\mu\text{mol}/\text{m}^2/\text{s}$

L SERIES (T8 TUBES)



	L14	L18
Spectra available*	NS12	AP67
Light efficacy 380 - 820nm (spectrum dependent)	Up to 2,1 $\mu\text{mol}/\text{m}^2/\text{s}$	Up to 2,1 $\mu\text{mol}/\text{W}$
Distance from the plants	< 0,5 m	< 0,5 m
Ambient operating temperature (placed inside working area)	-10°C up to +40°C	-10°C up to +40°C
Power consumption	14W	18W
Dimensions (length/diameter)	895mm/26mm	1198mm/26mm
Dimmable	No	No

	L28	L35
Spectra available*	AP67, AP673L, G2, NS12, Solray	AP67, AP673L, G2, NS12, Solray
Light efficacy 380 - 820nm (spectrum dependent)	Up to 2,1 $\mu\text{mol}/\text{W}$	Up to 2,1 $\mu\text{mol}/\text{W}$
Distance from the plants	< 0,5 m	< 0,5 m
Ambient operating temperature (placed inside working area)	-10°C up to +40°C	-10°C up to +40°C
Power consumption	28W	35W
Dimensions (length/diameter)	1198mm/26mm	1498mm / 26mm
Dimmable	No	No

C SERIES



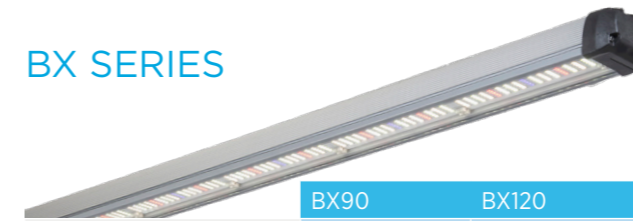
	C65	C75
Spectra available*	AP67, AP673L, NS12, Solray	AP67, AP673L, NS12, Solray
Light efficacy 380 - 820nm (spectrum dependent)	Up to 1,8 $\mu\text{mol}/\text{m}^2/\text{s}$	Up to 1,8 $\mu\text{mol}/\text{m}^2/\text{s}$
Distance from the plants	0,1 - 1,5 m	0,1 - 1,5 m
Ambient operating temperature (placed inside working area)	0°C up to +30°C	0°C up to +30°C
Power consumption	65W	80W
Dimensions	1175 x 45 x 33 mm	1475 x 45 x 33 mm
Dimmable	0 - 10V, light output: off, 6 - 100%	0 - 10V, light output: off, 6 - 100%

BX-DNA SERIES



	BX120-DNA
Spectrum (2 channels)	NS1 + FarRed
Light efficacy 380 - 820nm	1,8 $\mu\text{mol}/\text{m}^2/\text{s}$
Distance from the plants	0,1 - 4 m
Ambient operating temperature (placed inside working area)	0°C up to +40°C
Power consumption	156W
Dimensions	1176 x 74 x 58 mm
Dimmable (each channel)	1 - 10V, light output: off, 10 - 100%

BX SERIES



	BX90	BX120
Spectra available*	AP67, AP673L, G2, NS1, Solray	AP67, AP673L, G2, NS1, Solray
Light efficacy 380 - 820nm (spectrum dependent)	Up to 2,4 $\mu\text{mol}/\text{m}^2/\text{s}$	Up to 2,4 $\mu\text{mol}/\text{m}^2/\text{s}$
Distance from the plants	0,1 - 4 m	0,1 - 4 m
Ambient operating temperature (placed inside working area)	0°C up to +40°C	0°C up to +40°C
Power consumption	88W	132W
Dimensions	903 x 73,5 x 58 mm	1175 x 73,5 x 58 mm
Dimmable	1 - 10V, light output: off, 10 - 100%	1 - 10V, light output: off, 10 - 100%



HIGH SPECIFICATIONS CLIMATE CHAMBERS

MC1000 MC1750

LED type	Average max. intensity @15cm
L18 tubes	410 $\mu\text{mol}/\text{m}^2/\text{s}$
L28 tubes	925 $\mu\text{mol}/\text{m}^2/\text{s}$
C65 modules	1570 $\mu\text{mol}/\text{m}^2/\text{s}$
C90 modules	1260 $\mu\text{mol}/\text{m}^2/\text{s}$
BX120 modules	2370 $\mu\text{mol}/\text{m}^2/\text{s}$
BX180 modules	2220 $\mu\text{mol}/\text{m}^2/\text{s}$
BX120-DNA modules	2280 $\mu\text{mol}/\text{m}^2/\text{s}$
BX180-DNA modules	2335 $\mu\text{mol}/\text{m}^2/\text{s}$
DYNA module	1200 $\mu\text{mol}/\text{m}^2/\text{s}$

L SERIES (T8 TUBES)

	L18	L28
Spectra available*	AP67	AP67, AP673L, G2, NS12, Solray
Light efficacy 380 - 820nm (spectrum dependent)	Up to 2,1 $\mu\text{mol}/\text{W}$	Up to 2,1 $\mu\text{mol}/\text{W}$
Distance from the plants	< 0,5 m	< 0,5 m
Ambient operating temperature (placed inside working area)	-10°C up to +40°C	-10°C up to +40°C
Power consumption	18W	28W
Dimensions (length/diameter)	1198mm/26mm	1198mm/26mm
Dimmable	No	No

C SERIES

	C65	C90
Spectra available*	AP67, AP673L, NS12, Solray	AP67, AP673L, NS12, Solray
Light efficacy 380 - 820nm (spectrum dependent)	Up to 1,8 $\mu\text{mol}/\text{m}^2/\text{s}$	Up to 1,8 $\mu\text{mol}/\text{m}^2/\text{s}$
Distance from the plants	0,1 - 1,5 m	0,1 - 1,5 m
Ambient operating temperature (placed inside working area)	0°C up to +30°C	0°C up to +30°C
Power consumption	65W	90W
Dimensions	1175 x 45 x 33 mm	1750 x 45 x 33 mm
Dimmable	0 - 10V, light output: off, 6 - 100%	0 - 10V, light output: off, 6 - 100%

BX SERIES

	BX120	BX180
Spectra available*	AP67, AP673L, G2, NS1, Solray	AP67, AP673L, G2, NS1, Solray
Light efficacy 380 - 820nm (spectrum dependent)	Up to 2,4 $\mu\text{mol}/\text{W}$	Up to 2,4 $\mu\text{mol}/\text{W}$
Distance from the plants	0,1 - 4 m	0,1 - 4 m
Ambient operating temperature (placed inside working area)	0°C up to +40°C	0°C up to +40°C
Power consumption	132W	199W
Dimensions	1176 x 73,5 x 58 mm	1722 x 73,5 x 58 mm
Dimmable	1 - 10V, light output: off, 10 - 100%	1 - 10V, light output: off, 10 - 100%

BX-DNA SERIES

	BX120-DNA	BX180-DNA
Spectrum (2 channels)	NS1 + FarRed	NS1 + FarRed
Light efficacy 380 - 820nm (spectrum dependent)	1,8 $\mu\text{mol}/\text{m}^2/\text{s}$	1,8 $\mu\text{mol}/\text{m}^2/\text{s}$
Distance from the plants	0,1 - 4 m	0,1 - 4 m
Ambient operating temperature (placed inside working area)	0°C up to +40°C	0°C up to +40°C
Power consumption	156W	210W
Dimensions	1176 x 74 x 58 mm	1722 x 74 x 58 mm
Dimmable (each channel)	1 - 10V, light output: off, 10 - 100%	1 - 10V, light output: off, 10 - 100%

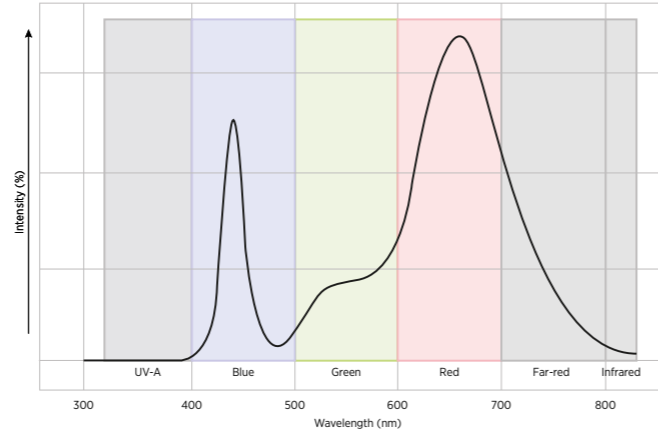
DYNA



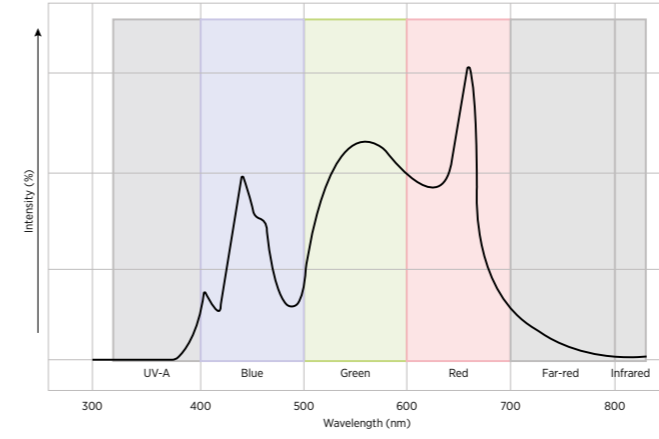
	DYNA
Spectra (9), each wavelength separate programmable	UV-A (380nm), Blue (400, 420 and 450nm), Green (520nm), Red (630 and 660nm), Far Red (735nm), Daylight (5700K)
Controllable	Web User Interface or helioCORE controlled
Distance from the plants	0,5 - 4 m
Ambient operating temperature (placed inside working area)	-10°C up to +40°C
Power consumption	10,5 - 420W
Dimensions	425 x 199 x 219 mm
Dimmable, each wavelength separately	0 - 100%

FUNCTIONAL SPECTRA

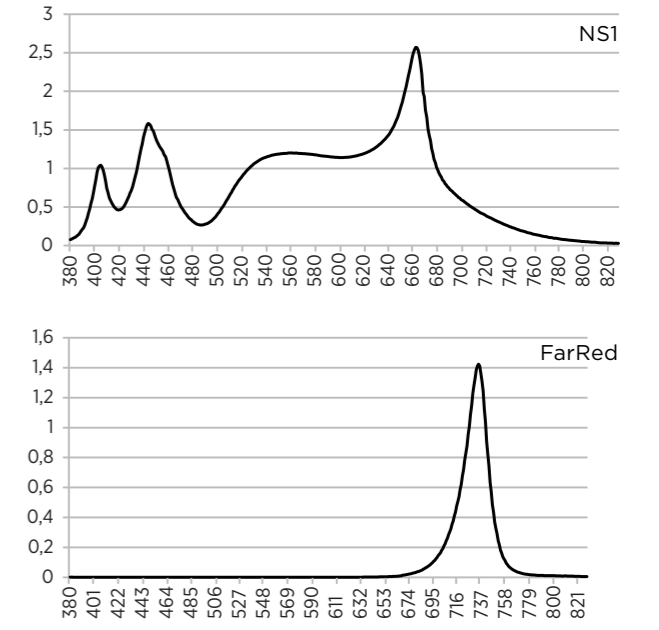
AP67 SPECTRUM



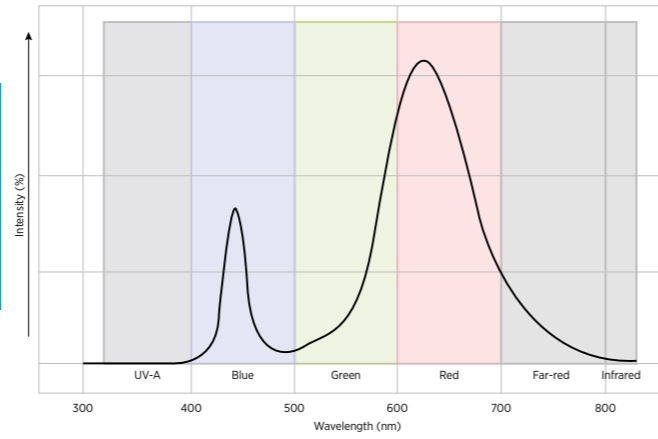
NS1 SPECTRUM



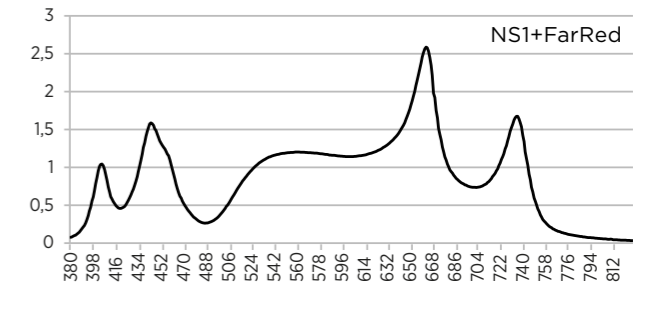
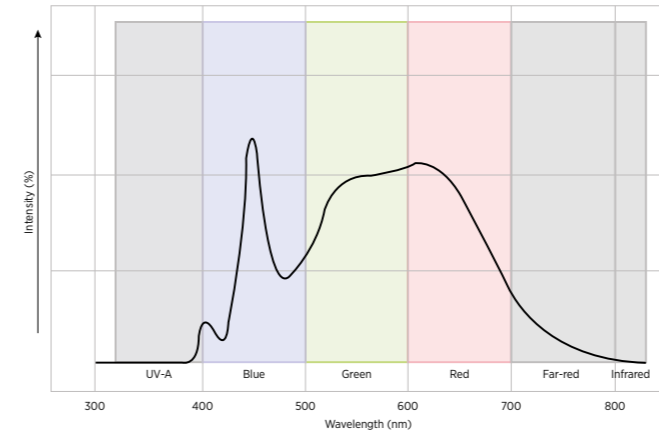
NS1 + FARRED SPECTRUM



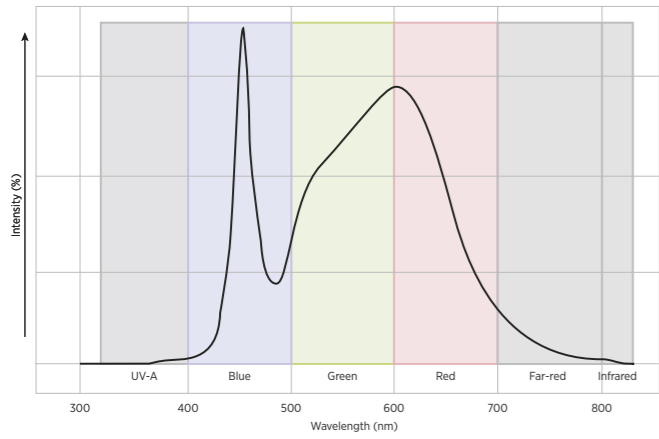
AP673L SPECTRUM



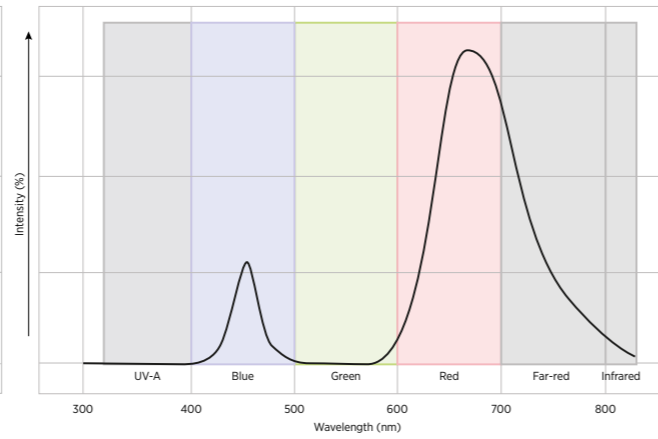
NS12 SPECTRUM



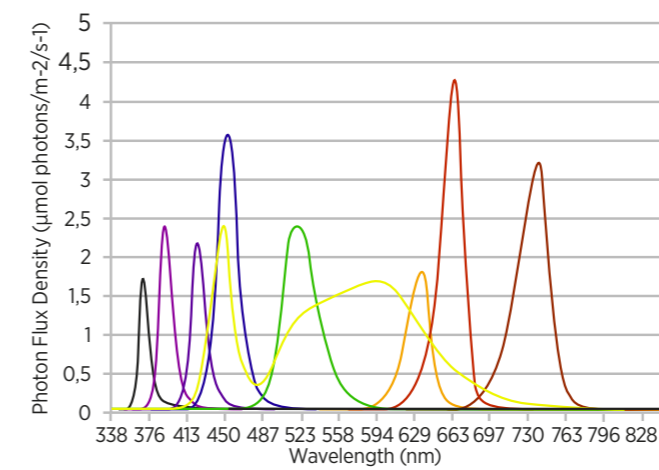
PH840 SPECTRUM



G2 SPECTRUM



DYNA SPECTRA



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Office and Production

Laurent Janssensstraat 105
5048 AR Tilburg
The Netherlands

Showroom and Testfacility

Gebroeders Salastraat 40
5048 AL Tilburg
The Netherlands

T +31 13 750 15 55
F +31 13 463 86 35

info@snijderslabs.com
www.snijderslabs.com