

HORTI-BLAZE™



VERTICALLY
URBAN

LIGHTING THE FARMS OF THE FUTURE

A HIGH-POWERED, EFFICIENT & RUGGED
LED GROW LIGHT

For Vertical Farms & Space-Limited Applications

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HORTI-BLAZE™



The Horti-Blaze™ is a high-powered, efficient and rugged horticultural LED sole-source grow light for vertical farming and other indoor farming applications.

Manufactured in the UK using the latest in LED technology and in lengths up to 2.4m (8'), Horti-Blaze™ is available in multiple spectra with market leading efficacies.

Easily integrated into racking systems as a top-light or an intracanopy solution, the Horti-Blaze™ system minimises the number of luminaires required and utilises fewer drivers compared to similar products, minimising electrical connections & reducing install cost.



HIGHER PPF & WIDER BEAM ANGLE

Meaning fewer luminaires for the same coverage in many cases



LOWER INSTALL COST

Increased max run lengths mean fewer drivers & electrical connections.



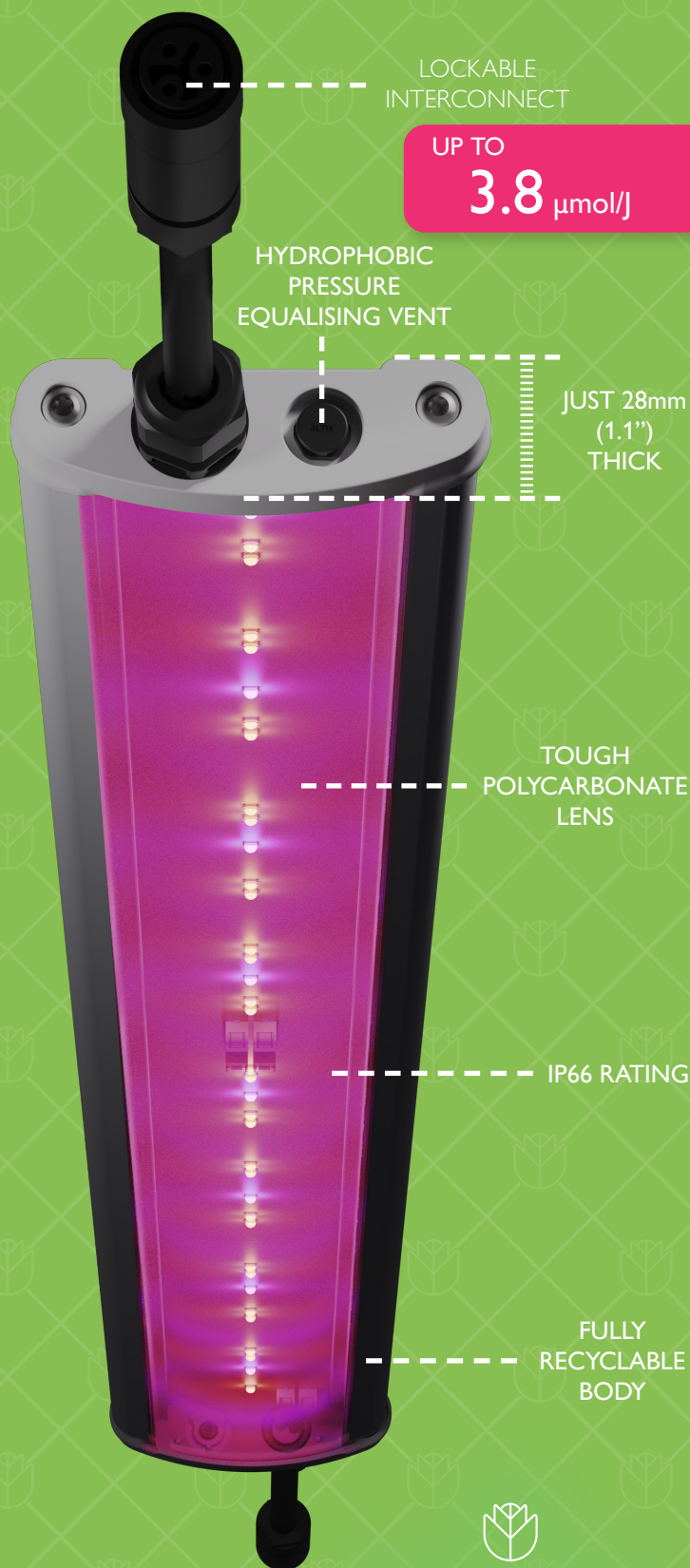
REDUCED ENERGY CONSUMPTION

Market leading efficacies keep energy use to a minimum



INCREASED RECYCLABILITY

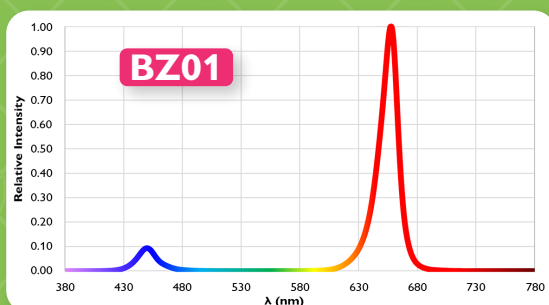
A fully recyclable body & refurbishable parts reduce end of life waste



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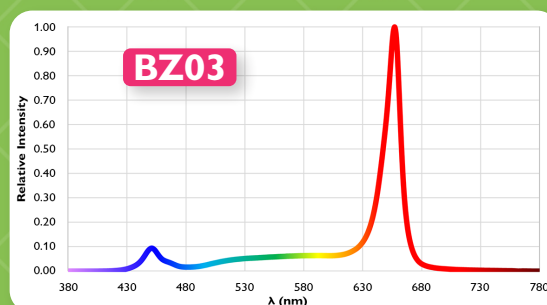


SPECTRA OPTIONS



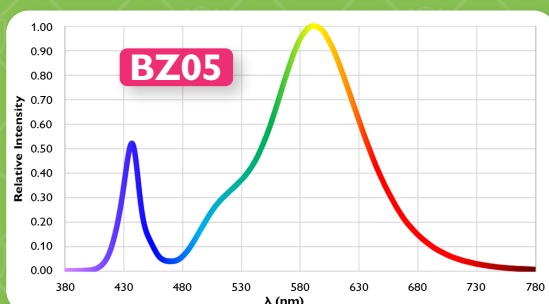
BZ01 - EFFICIENT PHOTOSYNTHESIS

- Purple appearance
- Wavelengths targeted purely to drive photosynthesis, resulting in an energy-efficient, high-biomass yield
- Ideal for a wide range of crops grown in enclosed systems



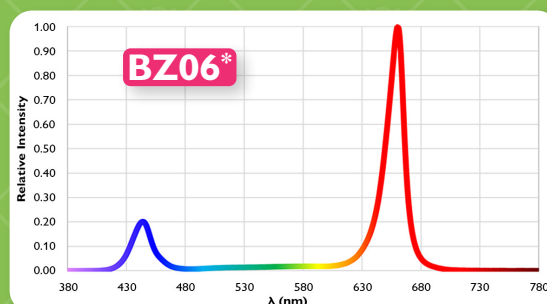
BZ03 - VEGETATIVE WHITE

- Pale pink appearance
- Emphasised red and additional green wavelengths promote good overall growth
- Ideal for a wide range of crops requiring regular attention from workers



BZ05 - BROAD WHITE

- White light appearance
- Tailored towards the human eye, this spectrum gives balanced overall growth whilst making the plant grown under them appear vibrant and healthy
- Suitable for many crops



BZ06* - EFFICIENT VEGETATIVE

- Pale purple appearance
- High proportion of red and blue wavelengths drive photosynthesis
- Small, energy efficient, addition of green light allows for improved visual crop inspection

SPECTRA PHOTON DISTRIBUTION & RATIO

	Blue PF	Green PF	Red PF	Far Red PF	B:G	R:B	R:FR
BZ01	11%	0%	89%	0%	-	8.1	-
BZ03	11%	21%	67%	1%	0.5	8.0	72.0
BZ05	12%	50%	36%	2%	0.2	3.0	13
BZ06*	13%	5%	82%	0%	2.6	6.3	-

*BZ06 is not currently available in North America



SPECIFICATIONS & PRODUCT CODES

PSU Input Voltage	See 'COMPATIBLE PSU SELECTION GUIDE' Below	IP Rating	IP66 (per IEC 60529)
Dimming Protocol	0-10V (others available on req)	Storage Temp	-20° to 85°C
PSU Power Factor	>0.95	Operating Temp	0° to 40°C
Dimming Range	0% - 100%	Warranty	5 Year limited
Cooling	Passive	IK Rating	IK03
Beam Distribution	140°	Finish	Anodised Aluminium / PC
Lifetime	BZ01 - Q90 >90,000 hrs BZ03, BZ05 - Q90 >54,000 hrs	Certification/ Qualification	cTÜVus UL8800, CE, UKCA, DLC

Part No.	Product Code	Spectrum	Length (mm (ft))	PPF (μmol/s)	Efficacy (μmol/J)	Power (W)	Units per PSU (N America)		Units per PSU (Global)		No. Clips
							320W	600W	320W	600W	
018154	VU-HORTI-BLAZE-BZ01-603MM-CCHV-IP66	BZ01	603 (2')	97	3.4	29	4-9	13-20	4-9	13-20	2
018155	VU-HORTI-BLAZE-BZ01-1186MM-CCHV-IP66		1186 (4')	195		58	2-4	7-10	2-4	7-10	2
018156	VU-HORTI-BLAZE-BZ01-1769MM-CCHV-IP66		1769 (6')	292		86	2-3	5-6	2-3	5-6	3
018157	VU-HORTI-BLAZE-BZ01-2352MM-CCHV-IP66		2352 (8')	390		115	1-2	4-5	1-2	4-5	4
018095	VU-HORTI-BLAZE-BZ03-603MM-CCHV-IP66	BZ03	603 (2')	92	3.1	30	4-10	13-20	4-10	13-20	2
018096	VU-HORTI-BLAZE-BZ03-1186MM-CCHV-IP66		1186 (4')	184		60	2-5	7-10	2-5	7-10	2
018097	VU-HORTI-BLAZE-BZ03-1769MM-CCHV-IP66		1769 (6')	275		89	2-3	5-6	2-3	5-6	3
018098	VU-HORTI-BLAZE-BZ03-2352MM-CCHV-IP66		2352 (8')	367		119	1-2	4-5	1-2	4-5	4
018160	VU-HORTI-BLAZE-BZ05-603MM-CCHV-IP66	BZ05	603 (2')	75	2.5	30	N/A	20	4-10	13-20	2
018161	VU-HORTI-BLAZE-BZ05-1186MM-CCHV-IP66		1186 (4')	151		59		10	2-5	7-10	2
018162	VU-HORTI-BLAZE-BZ05-1769MM-CCHV-IP66		1769 (6')	226		89		6	2-3	5-6	3
018163	VU-HORTI-BLAZE-BZ05-2352MM-CCHV-IP66		2352 (8')	301		118		5	1-2	4-5	4
019114	VU-HORTI-BLAZE-BZ06-603MM-CCHV-IP66	BZ06 ³	603 (2')	103	3.4	30	N/A	N/A	4-8	13-20	2
018264	VU-HORTI-BLAZE-BZ06-1186MM-CCHV-IP66		1186 (4')	205		61			2-4	7-10	2
018224	VU-HORTI-BLAZE-BZ06-1769MM-CCHV-IP66		1769 (6')	308		91			2 Only	5-6	3
019115	VU-HORTI-BLAZE-BZ06-2352MM-CCHV-IP66		2352 (8')	410		122			1-2	4-5	4

COMPATIBLE PSU SELECTION GUIDE

Spectrum	Input Current	Compatible PSU (N America)			Compatible PSU (Global)		
		Input Voltage	320W	600W	Input Voltage	320W	600W
BZ01	1500mA	100-277 VAC	020358	018177	100-240 VAC	020362	018270
		277-480 VAC	020360	018176	277-480 VAC	020364	018263
BZ03	1750mA	100-277 VAC	020357	018103	100-240 VAC	020361	018271
		277-480 VAC	020359	018104	277-480 VAC	020363	018266
BZ05	1750mA	100-277 VAC ⁴	N/A	018103 ⁴	100-240 VAC	020361	018271
		277-480 VAC	N/A	018104	277-480 VAC	020363	018266
BZ06 ³	1425mA	N/A	N/A	N/A	100-240 VAC	020368	018323
					277-480 VAC	020367	020003

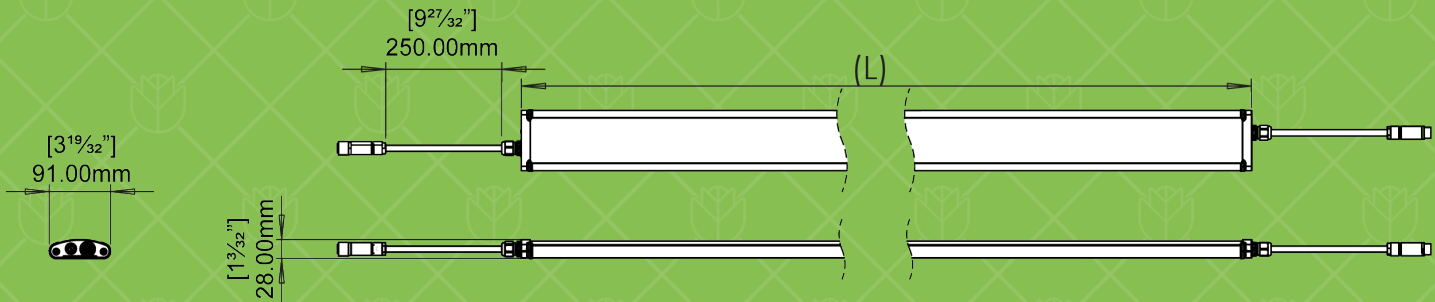
¹Typical PPF +/-10%
²A 3.8μmol/J full red luminaire is available upon request
³BZ06 spectrum is not currently available in North America
⁴277VAC input permissible ONLY

Products listed as DC powered modules.
All luminaires in BZ01, BZ03 and BZ05 spectra are DLC qualified.
All values are may be subject to change without prior notice.

HORTI-BLAZE™



DIMENSIONS



Length	603mm / 2'	1186mm / 4'	1769mm / 6'	2352mm / 8'
Weight	0.8kg / 1.76lb	1.6kg / 3.52lb	2.4kg / 5.29lb	3.2kg / 7.05lb

ACCESSORIES



Part No.	Description	Qty
018109	1m / 3.3ft Input Cable & Terminator	1
018180	3m / 9.8ft Input Cable & Terminator	1
018181	5m / 16.4ft Input Cable & Terminator	1
018178	10m / 32.8ft Input Cable & Terminator	1
018137	1m / 3.3ft Link Cable	1
018105	Horti-Blaze Clip	1
018323	PSU 600W 1425mA (100-240VAC)	1
020003	PSU 600W 1425mA (277-480VAC)	1
018270	PSU 600W 1500mA (120-277VAC)	1
018263	PSU 600W 1500mA (277-480VAC)	1
018271	PSU 600W 1750mA (100-240VAC)	1
018266	PSU 600W 1750mA (277-480VAC)	1
020368	PSU 320W 1425mA (100-240VAC)	1
020367	PSU 320W 1425mA (277-480VAC)	1
020362	PSU 320W 1500mA (100-240VAC)	1
020364	PSU 320W 1500mA (277-480VAC)	1
020361	PSU 320W 1750mA (100-240VAC)	1
020363	PSU 320W 1750mA (277-480VAC)	1

North America Only

018177	PSU 600W 1500mA (100-277VAC)	1
018176	PSU 600W 1500mA (277-480VAC)	1
018103	PSU 600W 1750mA (100-277VAC)	1
018104	PSU 600W 1750mA (277-480VAC)	1
020358	PSU 320W 1500mA (100-277VAC)	1
020360	PSU 320W 1500mA (277-480VAC)	1
020357	PSU 320W 1750mA (100-277VAC)	1
020359	PSU 320W 1750mA (277-480VAC)	1

Vertically Urban run regular development cycles, continuously optimising and balancing product specifications to best suit our customers. All information therefore, is intended as a guide and specifications may change on occasion without notice or announcement. Technical data is measured under controlled conditions, expected performance is within +/- 10% of advertised figures. Information provided is intended as a description of the product and shall not be used in the form of any contract.

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