

NARVA BIO vital®

... like natural sunlight



Specialists in **Light**
NARVA



Natural sunlight enhances efficiency and good health ...

The positive effect of natural sunlight on the physical and mental functions of a human body has been established several centuries ago. Compared to our forefathers we spend much time today in areas with artificial illumination.

The sunlight – deficiency syndrome that is a consequence thereof is hereby manifested through headache, lack of concentration, fatigue or weariness, reduction of sight, enfeeblement of the immune system right up to disorder of the vegetative nervous system and depressions.

Natural daylight – generated by the sun – is, beside visible light, also composed of an ultraviolet and an infrared percentage. Especially the ultraviolet percentage is of great importance to our well-being. It acts reflationary and compensatory to metabolism, blood pressure and to adenoids or gland functions. The vitamin D-synthesis that is indispensable for a healthy bone structure is stimulated by ultraviolet rays.

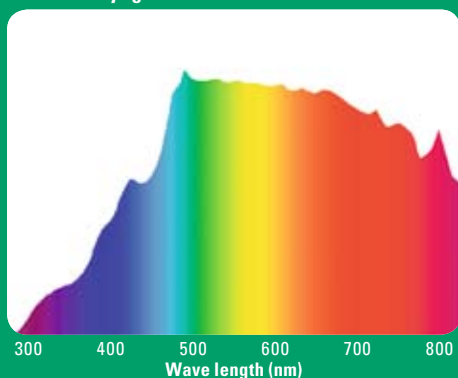
What is NARVA BIO vital®?

NARVA BIO vital® is artificial light, which, practically in its spectral composition is equivalent to natural sunlight. Contrary to standard lamps the light of NARVA BIO vital® illuminates or shines not only in visible areas of the spectrum but also incorporates the ultraviolet percentage in a similar manner like sunlight.

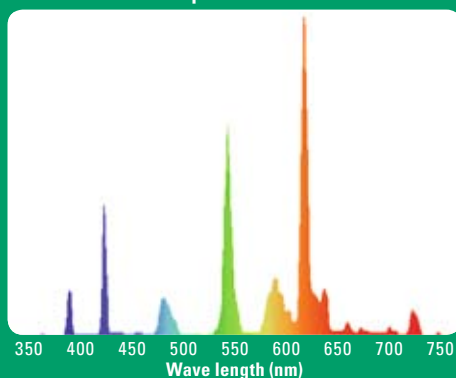
With NARVA BIO vital® one has:

- the vitalising effect of ultraviolet percentage/portion
- a counterbalanced spectrum, almost completely equivalent to that of sunlight
- a very good colour reproduction ($R_a > 90$) and an excellent contrast vision
- up to 80 % energy conservation as compared to filament bulbs

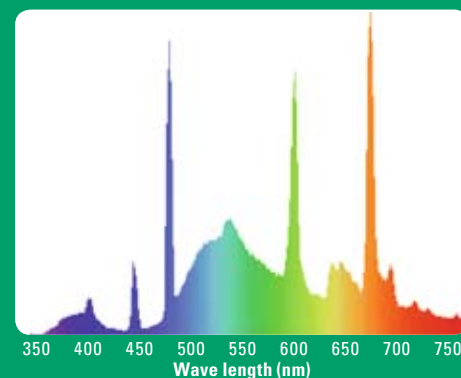
Natural daylight



Three phosphor fluorescent lamp
LF 827 COLOURLUX plus



LF 958 NARVA BIO vital®



Humans are not adaptive in any phase of life like they are during childhood and adolescence. Natural sunlight with an ultraviolet percentage plays a vital role in the development of children and adolescents. That is why the ultraviolet percentage in the spectrum of the lamps of the NARVA BIO vital® series is so important.

Kindergartens and schools

Ultraviolet percentage in light has a significant influence on the bone structure (Vitamin-D-formation) and helps to strengthen the immune system. Furthermore, the lamps of the NARVA BIO vital® series facilitate a better vision of colours.



Auditoria and Lecture Halls

A quantitatively high quality illumination is one of the decisive factors for a concentrated and fatigue-free learning. Light of the lamps of the NARVA BIO vital® series similar to that of sunlight guarantees a high ability to concentrate and also over a long period of time.



Nowadays people spend a greater part of the time, in professional life, mostly in rooms/areas without sufficient natural daylight. Most of the standard fluorescent lamps employed here do not offer a full-fledged substitution or compensation for natural sunlight. This leads to an enormous light deficiency that must be unconditionally compensated for the well-being and the efficiency of human beings.

Factory workshops

By using of lamps of the series NARVA BIO vital® the performance increases and the error rate is reduced. Many companies like company MIELE are using these lamps for production facility lighting.



Offices

Reading, writing and working on the computer are the most important activities in an office. The outstandingly good colour reproduction enables a good identification and a fatigue-free working/functioning as well as a high power of concentration.

What does good to human beings also naturally has a positive influence on the plants and animals in our environment. An optimal growth requires a light that is equivalent to natural sunlight in its spectral composition.

Animal husbandry

In intensive livestock husbandry, be it in dairy cattle facilities, in pig fattening or in intensive poultry management, the animals spend most of their entire life in artificial illumination. Lamps of the NARVA BIO vital® series can counterbalance or compensate, to a very large extent, the occurring deficiency of natural sunlight thereof, and thereby provide for better results in livestock husbandry.

Plant breeding

The appropriate light is one of the main factors for an optimal plant growth. Particularly in plant breeding the blue sections of the spectrum (blue, violet and ultraviolet) are of great importance. The light of the lamps of the NARVA BIO vital® series with its colour temperature of 5.800 K optimally fulfil these requirements.



NARVA BIO vital® ... like natural sunlight

- excellent colour rendering and light similar to natural daylight with 5.800 K
- with UV-A and UV-B part in the spectrum for better well-being



Technical Data and Ordering Information

Type	Nom. wattage W	Light colour	Nom. luminous flux lm	Sizes max.		Cap	Order number	EAN-Code 4 014501...
				ø mm	Length mm			
LT-T8 NARVA BIO vital®								
LT 15 W/958	15	958 NARVA BIO vital®	750	26	438	G 13	11015H 0013	040126
LT 18 W/958	18	958 NARVA BIO vital®	1.150	26	590	G 13	11018H 0018	040133
LT 30 W/958	30	958 NARVA BIO vital®	2.000	26	895	G 13	11030H 0013	040140
LT 36 W/958	36	958 NARVA BIO vital®	2.800	26	1.200	G 13	11036H 0018	040157
LT 58 W/958	58	958 NARVA BIO vital®	4.500	26	1.500	G 13	11058H 0015	040164
LT-T5 NARVA BIO vital®								
LT 14 W T5-EQ/958	14	958 NARVA BIO vital®	925	16	549	G 5	17114T5H 0003	032114
LT 21 W T5-EQ/958	21	958 NARVA BIO vital®	1.450	16	849	G 5	17121T5H 0003	032121
LT 28 W T5-EQ/958	28	958 NARVA BIO vital®	2.000	16	1.149	G 5	17128T5H 0004	032138
LT 35 W T5-EQ/958	35	958 NARVA BIO vital®	2.500	16	1.449	G 5	17135T5H 0004	032145
LT 24 W T5-HQ/958	24	958 NARVA BIO vital®	1.400	16	549	G 5	17124T5HQB 0004	032152
LT 39 W T5-HQ/958	39	958 NARVA BIO vital®	2.450	16	849	G 5	17139T5HQB 0005	032169
LT 49 W T5-HQ/958	49	958 NARVA BIO vital®	3.400	16	1.449	G 5	17149T5HQB 0004	032176
LT 54 W T5-HQ/958	54	958 NARVA BIO vital®	3.500	16	1.149	G 5	17154T5HQB 0006	032183
LT 80 W T5-HQ/958	80	958 NARVA BIO vital®	4.900	16	1.449	G 5	17180T5HQB 0005	032190
KLD-L NARVA BIO vital®								
KLD-L 18 W/958	18	958 NARVA BIO vital®	925	44	217	2 G 11	166018 0004	032602
KLD-L 24 W/958	24	958 NARVA BIO vital®	1.450	44	317	2 G 11	166024 0002	032619
KLD-L 36 W/958	36	958 NARVA BIO vital®	2.300	44	411	2 G 11	166036 0004	032626
KLD-L 40 W/958	40	958 NARVA BIO vital®	2.700	44	533	2 G 11	166040 0002	032633
KLD-L 55 W/958	55	958 NARVA BIO vital®	3.600	44	533	2 G 11	166055 0004	032640
KLD-L 80 W/958	80	958 NARVA BIO vital®	4.550	44	565	2 G 11	166080 0003	032657
HELIX NARVA BIO vital®								
HELIX 10 W/958	10	958 NARVA BIO vital®	470	60	90	GX 24 q-1	16010N 0002	041451
HELIX 13 W/958	13	958 NARVA BIO vital®	650	60	107	GX 24 q-1	16013N 0004	041338
HELIX 18 W/958	18	958 NARVA BIO vital®	1.000	60	122	GX 24 q-2	16018N 0003	041345
NT NARVA BIO vital®								
NT 9 W/958	9	958 NARVA BIO vital®	400	60	118	E 27	16009N 0010	041079
NT 11 W/958	11	958 NARVA BIO vital®	470	60	123	E 27	16011N 0046	041109
NT 15 W/958	15	958 NARVA BIO vital®	650	60	132	E 27	16015N 0063	041116
NT 20 W/958	20	958 NARVA BIO vital®	930	60	140	E 27	16020KN 0010	041147
NT 23 W/958	23	958 NARVA BIO vital®	1.050	60	152	E 27	16023N 0057	041178

Subject to change without prior information

NARVA

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