

# Fluorescent lamp Bonalux®Super NL-T5 54W/840/G5

## Logistic Data

Article No.	31114267
Code	NL-T5 54W/840/G5
Product EAN	4008597142673
Customs tariff no.	85393110
Box quantity (pcs.)	20
EAN Box	4008597442674
Gross weight of box in kg	3
Length of box in m	11.9
Width of box in m	1.1
Height of box in m	0.9
Pieces per palett	3420
EAN Palett	4008597642678
ETIM Class	EC000108
ETIM class name	Fluorescent lamp



## Electric Parameters

Lamp nominal wattage	54 W
Rated wattage	54.0 W
Nominal current (mA)	455 mA

## Light Application Parameters

Luminous flux	4450 lm
max. luminous flux	5000 lm
max. luminous flux at	35 °C
Rated lamp luminous flux	4450 lm
Luminous efficiency of lamp	93 lm/W
Radium light colour	white
Colour temperature	4000 K
Colour rendering index Ra	80-89
Colour rendering group	80-89 (Klasse 1B)
Mean luminance	2,9

## Service Life

Mean service life	24000 h
Info about service life	3B50, HF
Lamp survival factor at 2000h	0.99
Lamp survival factor at 4000h	0.99
Lamp survival factor at 6000h	0.99
Lamp survival factor at 8000h	0.99
Lamp survival factor at 12000h	0.99
Lamp survival factor at 16000h	0.97
Lamp survival factor at 20000h	0.85
Lumen maintenance at 2000h	0.95
Lumen maintenance at 4000h	0.92
Lumen maintenance at 6000h	0.91
Lumen maintenance at 8000h	0.90
Lumen maintenance at 12000h	0.90
Lumen maintenance at 16000h	0.90
Lumen maintenance at 20000h	0.89
Operation mode for LLMF/LSF	HF

## Specification

Diameter max.	16 mm
Length max.	1149 mm
Controllable (in suitable circuit)	+
Energy Label	A
Suitable for indoors	Yes
Mercury content	1.5 mg
Base	G5
Lamp shape	Tube, two bases
Colour	other

## Notes on Operation

Starter / Ignitor	EVG
Ignition assured down to about (°C)	-20
Operation with ECG	+

## Miscellaneous

ILCOS name	FDH-54/840-L/P-G5-16/1150
LBS name	T16 54W/840 G5

### Notes:

Fluorescent lamp Bonalux? Super Please, note: when changing lamps take care about the electric data of lamp and control gear, mix-up possible!

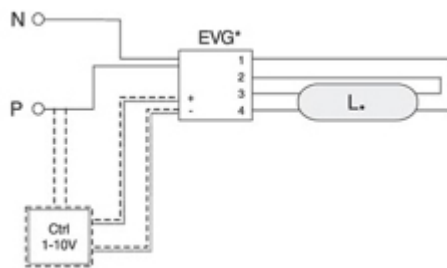
## Notes

## Base



G5  
IEC/EN 60061-1  
sheet 7004-52-5

## Circuit diagrams



One-lampe circuit with electronic ballast

Key:

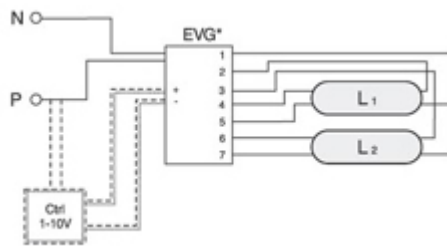
VG = ballast electronic (ECG)

P = phase

N = zero potential

Ctrl = Controller, dimmer

The required control gear (here electronic ballast) for the lamp's operation is usually mounted in the suitable luminaire in an appropriate electric circuit. Changes of any kind are to be conducted by qualified and specialised staff, only. Thus, this circuit example is to be understood merely as a technical background information for interested users.



Circuit with multi electronic ballast

Key:

VG = ballast electronic (ECG)

P = phase

N = zero potential

Ctrl = Controller, dimmer

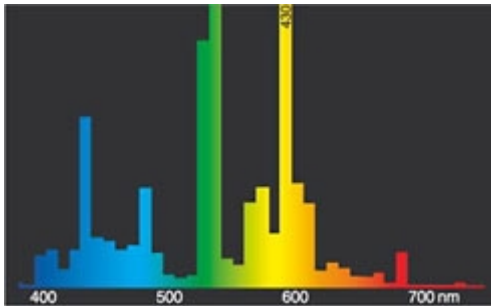
The required control gear (here electronic ballast) for the lamp's operation is usually mounted in the suitable luminaire in an appropriate electric circuit. Changes of any kind are to be conducted by qualified and specialised staff, only. Thus, this circuit example is to be understood merely as a technical background information for interested users.

## Spectrum

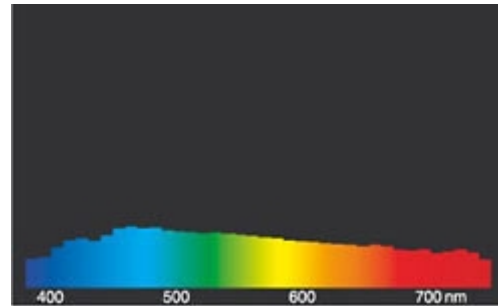
Natural daylight is a mixture of direct sunlight and the light of the sky. Therefore, its spectral composition changes permanently due to the changing time of day. The standardised light classification D65 corresponds to a daylight with a colour temperature of approximately 6500 K.

Every fluorescent lamp type has got an individual spectral power distribution according to its phosphor coating inside the bulb. From this result important properties light colour or colour rendering.

Visible region from 380 to 780 nm; height of graph corresponding with relative spectral emission (400mW/klm) per 10nm.



light colour 840 Spectralux® white (21)



daylight(D 65)

## General notes

The technical design data in accordance with DIN and IEC. The producer does not take any responsibility for damage to persons or property in case of unsuitable operation or handling of the product. Operating data and dimensions are valid within the usual tolerances. Related lamp types (different bases, mains voltages) may be available on request. Sale and delivery are effected in accordance with the Radium Terms of Delivery and Payment valid on the day of conclusion of contract. Packing units offer economical advantages to the purchase and logistic department. Please match your quantity volume accordingly. For orders of a minimum quantity (clefts) with a lamp model the amount lower than the volume of each packaging unit, we will invoice 10 % additional charge per lamp type. Technical changes and terms of delivery are reserved. Manipulation of any kind to packaging or product is not permissible as this will violate Radium brand rights. Furthermore, technical properties of the product can change to its disadvantage or even destruction. Therefore, Radium cannot be responsible for consequential damages. Subject to change without notice. Errors and omissions excepted. ® = Registered trademark

All technical data without guarantee.