



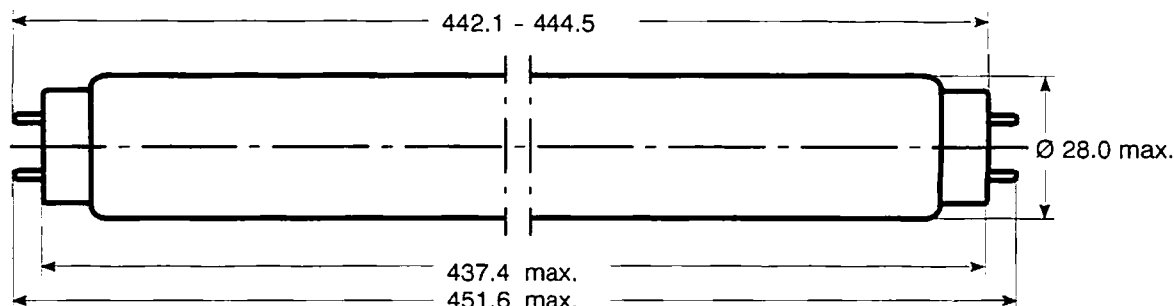
Data Sheet Standard Fluorescent Lamps coated

Product Specification Standard Linear Fluorescent

Lamp Types:	Standard Linear Fluorescent All Colours T5, T8 & T12
Coating Material:	Teflon [®] Fluoro Polymer Resin (FEP)
Light Transmission:	99% (Visible)
Coating Life:	+ 50.000 hours (open or enclosed fixtures)
Function:	To Contain Lamp Contents in Event of Accidental Breakage
Impact Test:	Passes: IEC60068-2-75 (5 Joule Pendulum) 4M Horizontal & Vertical Drop Test
FDA Approval:	In Compliance with 21CFR177.1550 Regulatory Compliance Status for Food Contact
Safety & Performance:	Passes: IEC61195 Fluorescent Lamp Performance Specifications IEC60695 Glow Wire Test 850° C IEC60598 Needle Flame Test
Management System:	ISO9001
Accreditations:	Meets the Requirements of the BRC & IFS Standards for UK & European Food Factories. Best practice for HACCP.

DIMENSIONS (mm) :

Nominal dimensions: 450 x 26



Cap: G13 (IEC61-1 sheet 7004-51-7)

ELECTRICAL DATA

		NOMINAL VALUE	MIN.	MAX.
Frequency	(Hz) :	50		
Lamp nominal wattage	(W) :	15		
Lamp rated wattage	single operation (W) :	15.0	13.8	16.2
	series operation (W) :	32		
Lamp operating voltage	(V) :	55.0	46.0	64.0
Lamp current	single operation (mA) :	310		
	series operation (mA) :	350		
Preheat current	single operation (mA) :	440		
	series operation (mA) :	510		

OPERATING CONDITIONS

		NOMINAL VALUE	MIN.	MAX.
Cap rim temperature	(°C) :			125
Lamp ambient temperature	(°C) :		-20	
Ballast impedance	single operation (Ω/V) :	325/127, 590/220, 621/230, 660/240		
	series operation (Ω/V) :	480/220, 510/230, 540/240		
Starter	single operation :	FS-11, FS-22, COP-22		
	series operation :	FS-22, COP-22		
Burning position	:	any		

LAMP LIFE *

Average life (50% failure rate)	(h) :	14 000
Individual life	(h) :	6 000

RADIATION DATA:

Radiation peak at 365 nm

COLOUR	No.	UV-A irradiance 1m distance bare lamp (315-400nm) (μW/cm ²)	UV-B irradiance 1m distance bare lamp (280-315nm) (μW/cm ²)	ILCOS-Code
BLACKLIGHT QUANTUM average at 0 h		38,0	0,05	XUV/FD15-E-G13-26/450

ATTENTION:

This UV energy source emits UV radiation. Avoid exposure to skin and eyes.
Lamps comply with the requirements of IEC/EN 60081 and IEC/EN 61195, respectively.
Starter and ballast must comply with IEC/EN 60155 and IEC/EN 60921, respectively.
* Life test according to IEC/EN 60081, Annex C.

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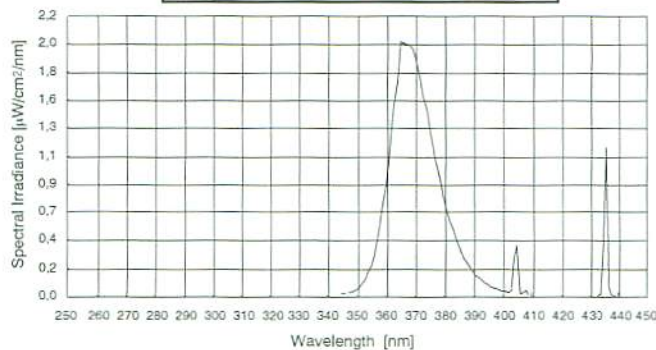
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F15W/T8/BL QUANTUM

A) Spectral Irradiance vs. Wavelength



Spectral Irradiance @ 1m distance

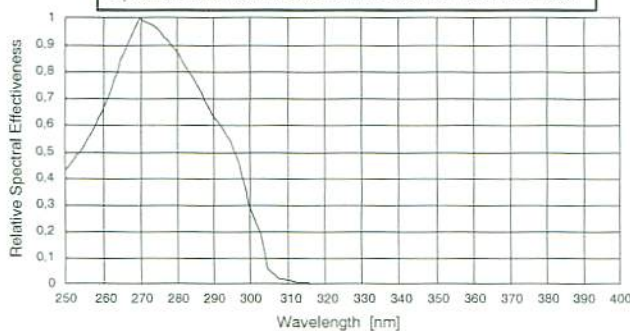
UVA = 38,00 $\mu\text{W}/\text{cm}^2$
 UVB = 0,05 $\mu\text{W}/\text{cm}^2$
 UVB/UVA = 0,13 %
 Wavelength range acc. to CIE
 UVA : 315 - 400 nm
 UVB : 280 - 315 nm

Lamp parameter:

Voltage: 55,0 V
 Current: 0,310 A
 Power: 15,0 W

B) UV Action Curve vs. Wavelength

Proposal of the British Committee to amend EN 60335-2-59:1997: Insect killers

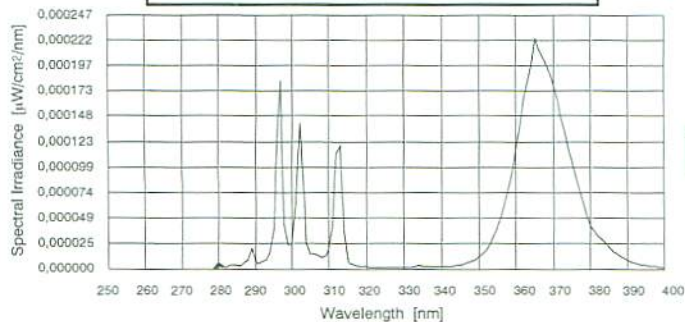


Acc. to EN 60335-2-59 : 1997
 CLC/TC61(GB)579

Total Effective Irradiance @ 1m distance
 Max. 1 mW/m²

Reason: to ensure that the ICNIRP 8 hour effective
 radiant exposure limit for the eyes and skin of
 30 J/m² is not exceeded.

C) Total Effective Irradiance vs. Wavelength
 = A) x B)



Total Effective Irradiance @ 1m distance
 0,050 mW/m²

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