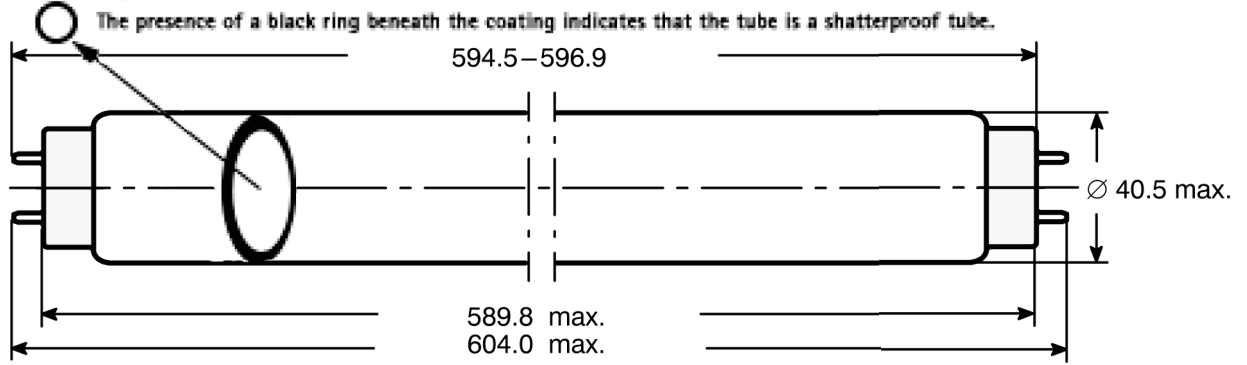




DIMENSIONS [mm] :

Nominal dimensions: 600 x 38



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

ELECTRICAL DATA

		<u>NOMINAL VALUE</u>	<u>MIN.</u>	<u>MAX.</u>
Frequency	[Hz] :	50		
Lamp nominal wattage	[W] :	20		
Lamp rated wattage	single operation [W] :	19.3	17.8	20.8
	series operation [W] :	40		
Lamp operating voltage	(r.m.s.) [V] :	57.0	50.0	64.0
Lamp current	single operation [mA] :	370		
	series operation [mA] :	410		
Preheat current	single operation [mA] :	550		
	series operation [mA] :	615		

OPERATING CONDITIONS

		<u>NOMINAL VALUE</u>	<u>MIN.</u>	<u>MAX.</u>
Cap rim temperature	[°C] :			125
Lamp ambient temperature	[°C] :		-20	
Ballast impedance	single operation [Ω/V] :	270/127, 540/220, 580/230, 610/240		
	series operation [Ω/V] :	390/220, 420/230, 452/240		
Starter	single operation :	FS-11, FS-22, COP-11, COP-22		
	series operation :	FS-22, COP-22		
Burning position	:	any		

LAMP LIFE *

Average life (50% failure rate)	[h] :	10 000
Individual life	[h] :	4000

RADIATION DATA:

Radiation peak at 365 nm

<u>COLOUR</u>	<u>No.</u>	<u>UV-A irradiance</u> 1m distance bare lamp (315-400nm) [μW/cm ²]	<u>UV-B irradiance</u> 1m distance bare lamp (280-315nm) [μW/cm ²]	<u>ILCOS-Code</u>
BLACKLIGHT QUANTUM				
average at 0 h		49,0	0,03	XUV/FD20-E-G13-38/590

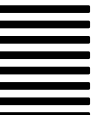
ATTENTION:

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

Issued by : Havells Sylvania
Date : 26.02.2008
Revision Date :

DATA SHEET

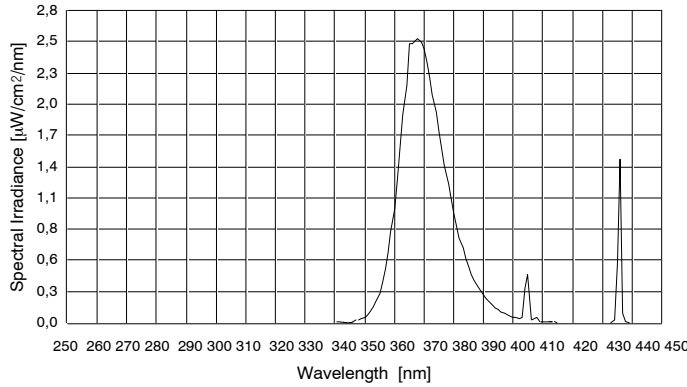
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Evaluation acc. EN60335-2-59

F20W/T12/BL QUANTUM

A) Spectral Irradiance vs. Wavelength



Spectral Irradiance @ 1m distance

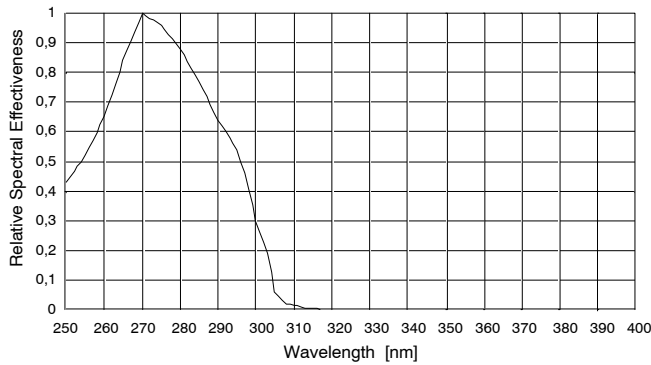
UVA = 49,00 µW/cm²
 UVB = 0,03 µW/cm²
 UVB/UVA = 0,06 %
 Wavelength range acc. to CIE
 UVA : 315 - 400 nm
 UVB : 280 - 315 nm

Lamp parameter:

Voltage: 57,0 V
 Current: 0,370 A
 Power: 20,0 W

B) UV Action Curve vs. Wavelength

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

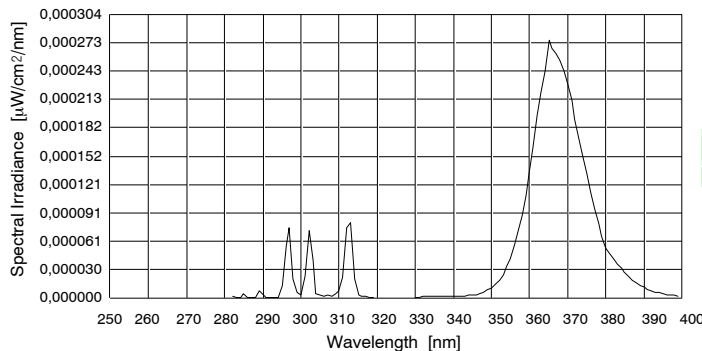


Acc. to EN 60335-2-59 : 1997
 CLC/TC61(GB)579

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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