

38
kWh/1000h

A
energy class

79
lumens/watt

2D™ Watt-Miser™

F38W 2D/T5/827/4P TU OEM56
93105890

Product information

Biax™ 2D™ compact fluorescent lamps have been available for many years but GE is introducing the next generation of lamps under the name of 2D™ Watt-Miser™. These are available in 16, 21, 28 and 38 Watt in a wide choice of colour temperatures, these lamps are a direct replacement to existing 2D fixtures delivering the same life of 15,000 hours in case of 28 and 38 Watt but additional energy saving performance, 2D™ Watt-Miser™ lamps give similar lumen as the lamps they are replacing but up to 12% energy saving dependent upon ballast and wattage. Saving energy cost: 16W lamp runs on 14W*, 21W lamp runs on 19W*, 28W lamp runs on 24W* and 38W runs on 34W*. In response to the demand from the market for a higher light output version of the 2D™ lamp, GE offers the 55W using the T5 28W/38W envelope size. The high luminous efficacy has been retained in the 55W by incorporating an amalgam which overcomes the fall in efficacy that occurs with increased lamp loading. The 55W lamp has a cap with dedicated key. The cap material withstands the higher

temperatures generated by the increased lamp power while the modified holder key for the 55W 2D™ will prevent accidental insertion of any lower rated 2D™ lamp into a 55W socket. The T5 size (14% smaller overall diameter) will allow luminaire manufacturers to design new fittings with improved optical control in addition to the well-known uniformity of light of the Biax™ 2D™ concept.

(*When used with electronic ballast)

Application areas



Office



Industrial

Product data

Product Code	93105890
Bulb Shape	2D
Bulb maximum overall diameter [mm]	202
Maximum Overall Length [mm]	204
Net weight per piece [g]	103
Gross weight per piece [g]	156
Operating position	U - Universal
Mercury Content [mg]	3
UV radiance	exempt
Brand	Tungsramp
Cap/Base	GR10q

Performance data

Colour Code	827
Rated Lumens [lm]	3020
Weighted energy consumption [kWh/1000h]	37.95
Energy efficiency class (EEC)	A
Rated Life [h]	15000
Rated median life on electronic (HF / ECG) ballast on IEC 12-hour cycle	21000
Rated median life on electronic (HF / ECG) ballast on IEC 3-hour cycle	18000
Nominal correlated colour temperature (CCT) [K]	2700
Nominal lumens [lm]	3020
Colour Rendering Index (CRI) [Ra]	82

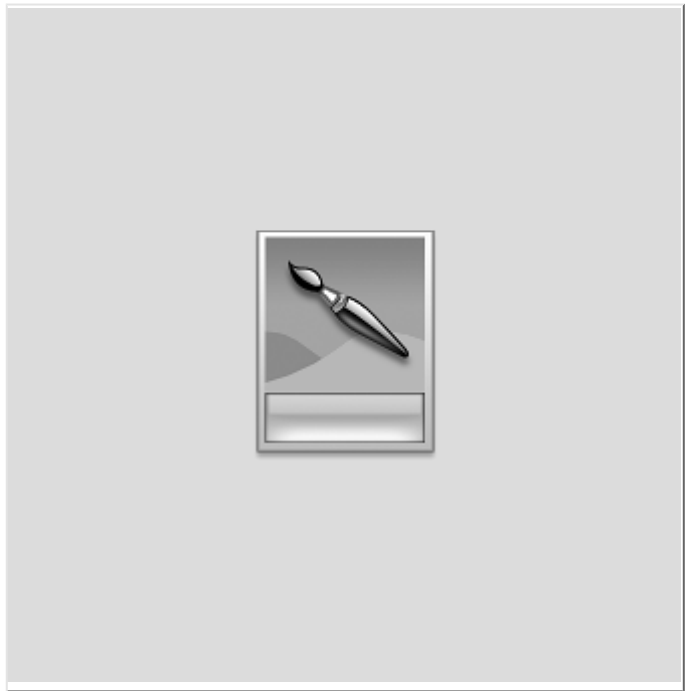
Electrical data

Rated power [W]	34.5
Operating Temperature (MIN) [°C]	-15
Starting ambient temperature range	-15
Dimming Capability	Yes
Nominal power [W]	38
Nominal lamp voltage [V]	110

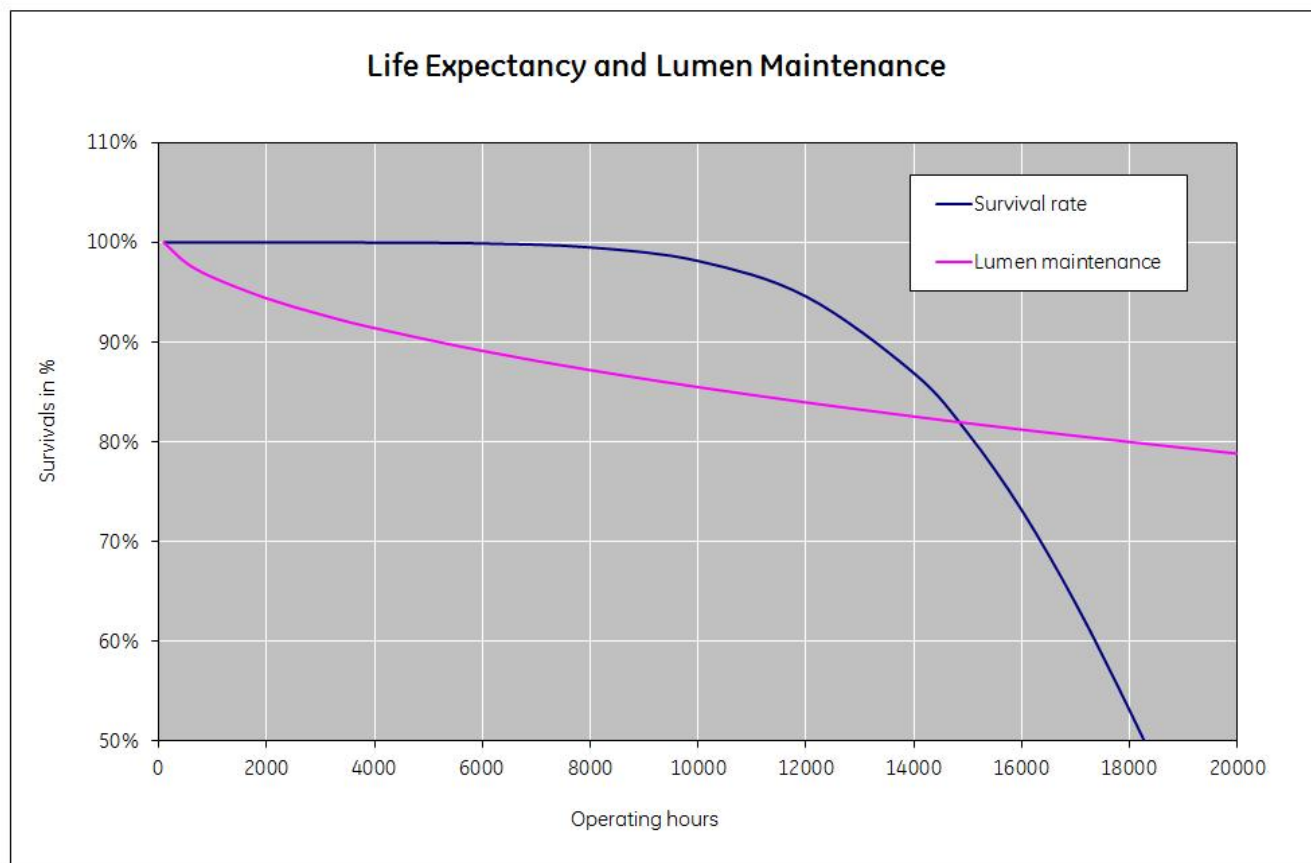
Logistic data

Shipment	Standard
DUN Code	15994100010347
EAN Code	5994100010340
Pack Quantity	56
Inner pack type	INDUSTRIAL PACK
Outer pack type	OUTER BOX
Layer quantity	224 EUR, 336 UK
Layer quantity EUR	224
Layer quantity UK	336
Pallet quantity EUR (PC)	448
Pallet quantity UK (PC)	672
Outer case size	480 x 391 x 470 (mm)
Product status	Available

Technical drawing



Survival data



Downloads & Links

[Go to the catalog site \(HTTP\)](#)

[CFL Non-Integrated Spectrum Catalogue \(PDF\)](#)

[Lighting design tools & calculators \(HTTP\)](#)

[High-res images / Technical drawings \(HTTP\)](#)