# **PHILIPS** Lighting

## Outstanding performance and reliability

### **TuffGuard Coated T8**

When you select Philips TuffGuard<sup>™</sup> Fluorescent lamp with ALTO<sup>®</sup> lamp technology, you are reducing the impact on the environment, while the coating helps to protect your customers, employees, and reputation. Philips TuffGuard<sup>™</sup> fluorescent lamps meet sustainability requirements because they reduce the impact on the environment with low mercury, energy efficiency and long life. The patented green endcaps mean you're using ALTO low-mercury technology. The 16 mils thick coating on TuffGuard<sup>™</sup> fluorescent lamps forms a protective seal from end to end and is guaranteed to last the average rated life of the lamp under specific conditions

#### Benefits

- Sustainable Lighting Solution Philips TuffGuard lamps reduce the impact on the environment with low mercury.
- Energy Efficient for a greener, brighter future.
- · Long Life to assist with lowering your maintenance costs and reducing waste.

#### Features

- $\cdot$  Keeps broken glass contained
- $\cdot$  Coating will not yellow, crack, or flake
- · Reduces the impact on the environment:Low mercury, Energy efficient,Long life
- Warranty: Coating Guaranteed to Last the Average Rated Life of the Lamp
- Lighting Required to be Shielded or Otherwise Protected in Food Service and Food Processing Areas
- 15,17,25,30,32,40,48,96 watts with 3000,3500,4100,4200,5000,and 6500, color temperatures

#### Application

· Ideal for food processing/services, manufacturing, and hospitals.

#### **TuffGuard Coated T8**

Versions

-	

G13, T8

FA8, T8

#### Dimensional drawing

Product

F32T8/ADV841 ALTO TG 30PK



#### Product

F96T8/TL841 PLUS/ALTO TG 25PK



Approval and Application	
Energy Saving Product	Energy Saving
Light Technical	
Correlated Color Temperature (Nom)	4100 K
Color Rendering Index (Nom)	85
Mechanical and Housing	
Bulb Shape	Т8

#### Approval and Application

#### **TuffGuard Coated T8**

Order Code	e Full Product Name	Mercury (Hg) Content (Nom)	Picogram Per Lumen Hour	Order Code	Full Product Name	Mercury (Hg) Content (Nom)	Picogram Per Lumen Hour
283390	F32T8/ADV841 ALTO TG	1.7 mg	24 pg/lm.h	409094	F96T8/TL841 PLUS/ALTO	4.4 mg	33 pg/lm.h
	30PK				TG 25PK		

#### **Operating and Electrical**

Order Code	Full Product Name	Power (Rated) (Nom)	Order Code	Full Product Name	Power (Rated) (Nom)
283390	F32T8/ADV841 ALTO TG 30PK	32 W	409094	F96T8/TL841 PLUS/ALTO TG 25PK	59 W

#### **General Information**

			Life 12-Hr Start	Life 3-Hr Start	Life 12-Hr Instant	Life 12-Hr Programstart	Life 3-Hr Instant	Life 3-Hr Program
Order Code	Full Product Name	Cap-Base	[Hrs]	[Hrs]	Start [Hrs]	[Hrs]	Start [Hrs]	Start [Hrs]
283390	F32T8/ADV841 ALTO TG 30PK	G13	-	-	30000 h	36000 h	24000 h	30000 h
409094	F96T8/TL841 PLUS/ALTO TG 25PK	FA8	30000 h	24000 h	-	-	-	-

#### Light Technical

				Design	
Order	Full Product		Color	Mean	Luminous
Code	Name	Color Code	Designation	Lumens	Flux (Nom)
283390	F32T8/ADV841	Advantage	Advantage 841	3000 lm	3100 lm
	ALTO TG 30PK	841			
409094	F96T8/TL841	TL841	TL841	5490 lm	5900 lm
	PLUS/ALTO TG				
	25PK				



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