



2012, March 17
data subject to change

Shatterfree fluorescent lighting

MASTER TL-D Secura

This TL-D lamp has a protective coating that keeps glass and lamp components together in the event of accidental breakage. The lamp is easily identifiable by blue rings at one end. Application areas are all places where glass shatters can disturb operations and can have an impact on product and people safety, e.g. the food and beverage industry. The lamp has a Surlyn coating which blocks UV light. It is compliant with HACCP regulations.

Benefits

- Special protective coating around the lamp, prevents products from contamination in case of accidental lamp breakage; easily recognized in audit situations by two blue rings at one end
- Protects products from discoloring and loss of taste by 90 % lower UV-emission
- Makes luminaires compliant with relevant standards in the industry, such as HACCP, ISO 22000 and IEC 61549: Fragment Retention Lamp Standard

Features

- Protective coating (Surlyn) around the lamp, indicated by two blue rings at one lamp end. This lamp is NOT meant for application in closed luminaires
- Fully compliant with IEC 61549 - Fragment Retention Lamp Standard and with relevant standards in the food industry, such as HACCP and ISO 22000
- No degradation under influence of temperature or UV
- Coating blocks 90 % of UV emission of the lamp
- Fully recyclable, including the protective lamp coating
- Relatively high efficacy, both initially and during lamp lifetime, with high lumen maintenance



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Application

- For use where contamination resulting from lamp breakage must be prevented, e.g. in food preparation, health care, pharmaceuticals, cleanrooms etc.
- Suitable for use in environments with increased risk of breakage, e.g. sports halls

- Suitable for use in environments where UV emission should be reduced (museums, libraries, archives, food industry, fashion shops, etc.)

Warnings and Safety

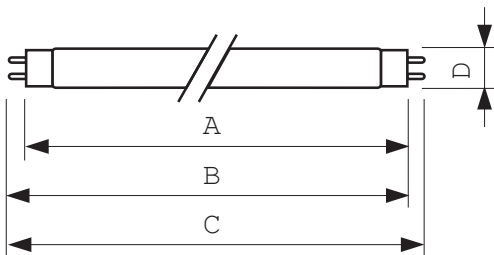
- Not suitable for closed luminaires (as indicated by two blue rings)
- Recommended use in combination with self-stopping lamp control system

Related products



G13, T8

Dimensional drawing



G13, T8

Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL-D 18W/830 Secura	589.8	594.5	596.9	604	28
TL-D 18W/840 Secura	589.8	594.5	596.9	604	28
TL-D 30W/830 Secura	894.6	899.3	901.7	908.8	28
TL-D 30W/840 Secura	894.6	899.3	901.7	908.8	28
TL-D 36W/830 Secura	1199.4	1204.1	1206.5	1213.6	28
TL-D 36W/840 Secura	1199.4	1204.1	1206.5	1213.6	28
TL-D 58W/830 Secura	1500.0	1504.7	1507.1	1514.2	28
TL-D 58W/840 Secura	1500.0	1504.7	1507.1	1514.2	28

General Characteristics (1/2)

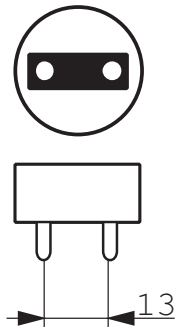
Order code	Full product name	Bulb	Cap-Base	Life to 50% fail-ures EM	Life to 50% fail Preheat EL,3h	Life to 50% fail Nonpreh EL,3h	Life to 10% fail Nonpreh EL,3h	Life to 10% fail Preheat EL,3h	Life to 10% fail-ures EM	LSF EM 20000h Rated,3h cycle	LSF EM 16000h Rated,3h cycle
927920483076	MASTER TL-D Secura 18W/830 1SL	T8	G13	15000	20000	12000	10000	17000	12000	2	33
927920484076	MASTER TL-D Secura 18W/840 1SL	T8	G13	15000	20000	12000	10000	17000	12000	2	33
927920683077	MASTER TL-D Secura 30W/830 1SL	T8	G13	15000	20000	12000	10000	17000	12000	2	33
927920684077	MASTER TL-D Secura 30W/840 1SL	T8	G13	15000	20000	12000	10000	17000	12000	2	33
927921483076	MASTER TL-D Secura 36W/830 1SL	T8	G13	15000	20000	12000	10000	17000	12000	2	33
927921484076	MASTER TL-D Secura 36W/840 1SL	T8	G13	15000	20000	12000	10000	17000	12000	2	33
927922483076	MASTER TL-D Secura 58W/830 1SL	T8	G13	15000	20000	12000	10000	17000	12000	2	33
927922484076	MASTER TL-D Secura 58W/840 1SL	T8	G13	15000	20000	12000	10000	17000	12000	2	33

General Characteristics (2/2)

Order code	Full product name	LSF EM 12000h Rated, 3h cycle	LSF EM 8000h Rated, 3h cycle	LSF EM 6000h Rated, 3h cycle	LSF EM 4000h Rated, 3h cycle	LSF EM 2000h Rated, 3h cycle
927920483076	MASTER TL-D Secura 18W/830 1SL	90	99	99	99	99
927920484076	MASTER TL-D Secura 18W/840 1SL	89	99	99	99	99
927920683077	MASTER TL-D Secura 30W/830 1SL	90	99	99	99	99
927920684077	MASTER TL-D Secura 30W/840 1SL	89	99	99	99	99
927921483076	MASTER TL-D Secura 36W/830 1SL	89	99	99	99	99

Order code	Full product name	LSF EM 12000h Rated, 3h cycle	LSF EM 8000h Rated, 3h cycle	LSF EM 6000h Rated, 3h cycle	LSF EM 4000h Rated, 3h cycle	LSF EM 2000h Rated, 3h cycle
927921484076	MASTER TL-D Secura 36W/840 1SL	89	99	99	99	99
927922483076	MASTER TL-D Secura 58W/830 1SL	89	99	99	99	99
927922484076	MASTER TL-D Secura 58W/840 1SL	89	99	99	99	99

Installation diagrams



G13

Light Technical Characteristics (1/2)

Order code	Full product name	Color Code	Color Designation (text)	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index	Color Temperature	Lum Efficacy Rated EM 25°C	LLMF EM 20000h Rated	LLMF EM 16000h Rated	LLMF EM 12000h Rated
927920483076	MASTER TL-D Secura 18W/830 1SL	830	Warm White	438	403	85	3000	72	90	91	92
927920484076	MASTER TL-D Secura 18W/840 1SL	840	Cool White	382	380	85	4000	72	90	91	92
927920683077	MASTER TL-D Secura 30W/830 1SL	830	Warm White	441	407	85	3000	78	90	91	92
927920684077	MASTER TL-D Secura 30W/840 1SL	840	Cool White	384	383	85	4100	78	90	91	92
927921483076	MASTER TL-D Secura 36W/830 1SL	830	Warm White	438	403	85	3000	89	90	91	92
927921484076	MASTER TL-D Secura 36W/840 1SL	840	Cool White	381	379	85	4000	89	90	91	92
927922483076	MASTER TL-D Secura 58W/830 1SL	830	Warm White	438	403	85	3000	85.5	90	91	92
927922484076	MASTER TL-D Secura 58W/840 1SL	840	Cool White	381	379	85	4000	85.5	90	91	92

Light Technical Characteristics (2/2)

Order code	Full product name	LLMF EM 8000h Rated	LLMF EM 6000h Rated	LLMF EM 4000h Rated	LLMF EM 2000h Rated	Luminous Flux EM 25°C, Rated	Luminous Flux EM 25°C, Nominal	Design Temperature
927920483076	MASTER TL-D Secura 18W/830 1SL	93	94	95	96	1300	1300	25
927920484076	MASTER TL-D Secura 18W/840 1SL	93	94	95	96	1300	1300	25
927920683077	MASTER TL-D Secura 30W/830 1SL	93	94	95	96	2350	2350	25
927920684077	MASTER TL-D Secura 30W/840 1SL	93	94	95	96	2350	2350	25
927921483076	MASTER TL-D Secura 36W/830 1SL	93	94	95	96	3200	3200	25
927921484076	MASTER TL-D Secura 36W/840 1SL	93	94	95	96	3200	3200	25

Order code	Full product name	LLMF EM 8000h Rated	LLMF EM 6000h Rated	LLMF EM 4000h Rated	LLMF EM 2000h Rated	Luminous Flux EM 25°C, Rated	Luminous Flux EM 25°C, Nominal	Design Temperature
927922483076	MASTER TL-D Secura 58W/830 1SL	93	94	95	96	5000	5000	25
927922484076	MASTER TL-D Secura 58W/840 1SL	93	94	95	96	5000	5000	25

Electrical Characteristics

Order code	Full product name	Lamp Wattage	Dimmable	Lamp Current EM 25°C	Lamp Wattage EM 25°C, Rated	Lamp Wattage EM 25°C, Nominal	Lamp Voltage EM 25°C
927920483076	MASTER TL-D Secura 18W/830 1SL	18	Yes	0.360	18.0	18	59
927920484076	MASTER TL-D Secura 18W/840 1SL	18	Yes	0.360	18.0	18	59
927920683077	MASTER TL-D Secura 30W/830 1SL	30	Yes	0.360	30.0	30	98
927920684077	MASTER TL-D Secura 30W/840 1SL	30	Yes	0.360	30.0	30	98
927921483076	MASTER TL-D Secura 36W/830 1SL	36	Yes	0.440	36.0	36	103
927921484076	MASTER TL-D Secura 36W/840 1SL	36	Yes	0.440	36.0	36	103
927922483076	MASTER TL-D Secura 58W/830 1SL	58	Yes	0.670	58.5	58	111
927922484076	MASTER TL-D Secura 58W/840 1SL	58	Yes	0.670	58.5	58	111

Environmental Characteristics

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content
927920483076	MASTER TL-D Secura 18W/830 1SL	A	2.0
927920484076	MASTER TL-D Secura 18W/840 1SL	A	2.0
927920683077	MASTER TL-D Secura 30W/830 1SL	A	2.0
927920684077	MASTER TL-D Secura 30W/840 1SL	A	2.0
927921483076	MASTER TL-D Secura 36W/830 1SL	A	2.0

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content
927921484076	MASTER TL-D Secura 36W/840 1SL	A	2.0
927922483076	MASTER TL-D Secura 58W/830 1SL	A	2.0
927922484076	MASTER TL-D Secura 58W/840 1SL	A	2.0



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