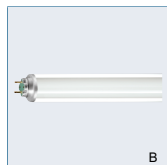
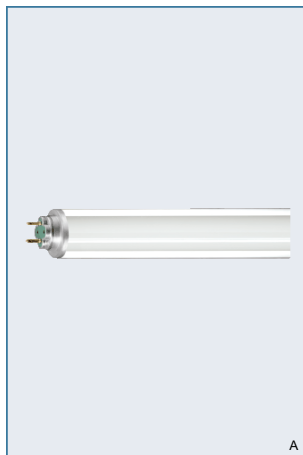


TL-D MASTER TL-D Xtra Polar Super 80



Product Description

- Polar versions are regular MASTER TL-D Xtra and Xtreme lamps inside a clear T12 tube

Product Features

- Improved lumen output in low ambient temperatures
- The same reliable, long lifetime performance as regular MASTER TL-D Xtra and Xtreme
- Robust lamp construction due to strong, temperature-resistant assembly kit
- 10 pcs. packaging

Product Benefits

- High lighting level in low ambient temperature applications compared with other fluorescent tubes

- Strong reduction in maintenance costs due to high reliability and long lifetime
- Fully temperature-resistant in all conditions; no temperature-related relamping problems
- Supports end-user sustainability programs (low mercury level and low waste due to long lifetime)

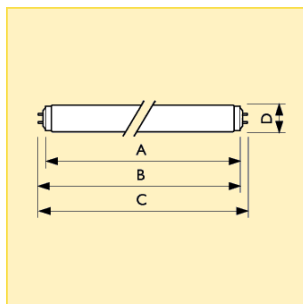
Environment

- Good environmental choice because of highest energy efficiency in colder conditions (<10 °C), long reliable life (380% better than T8 standard), low waste (only 1 lamp compared to 4 T8 standard), lowest mercury content and lead-free

- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

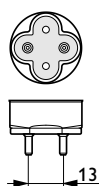
- Indoor: cold stores and other refrigerated areas
- Outdoor: petrol stations, car parks, shipping docks, petrochemical plants, sign lighting, tunnels



Dimensions (mm)

Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604	40.5
2	1199.4	1204.1	1206.5	1213.6	40.5
3	1500.0	1504.7	1507.1	1514.2	40.5

Commercial product name					Cap/Base	Colour Rendering Index (Ra)	Luminous Flux Lamp EM (lm)	Dim. no.	Photo letter	Ordering number
Type	Wattage/Colour designation	Packing type	Packing configuration							
MASTER TL-D Xtra Polar Super 80	18W/830	SLV	10		G13	85	1350	1	B	893031 25
MASTER TL-D Xtra Polar Super 80	18W/840	SLV	10		G13	85	1350	1	B	893055 25
MASTER TL-D Xtra Polar Super 80	18W/865	SLV	10		G13	85	1250	1	B	893079 25
MASTER TL-D Xtra Polar Super 80	36W/830	SLV	10		G13	85	3300	2	B	893154 25
MASTER TL-D Xtra Polar Super 80	36W/840	SLV	10		G13	85	3300	2	B	893178 25
MASTER TL-D Xtra Polar Super 80	36W/865	SLV	10		G13	85	3200	2	B	893192 25
MASTER TL-D Xtra Polar Super 80	58W/830	SLV	10		G13	85	5200	3	B	893277 25
MASTER TL-D Xtra Polar Super 80	58W/840	SLV	10		G13	85	5200	3	B	893291 25
MASTER TL-D Xtra Polar Super 80	58W/865	SLV	10		G13	85	5150	3	B	893314 25



TL-D MASTER TL-D Xtra Polar Super 80

Additional technical data

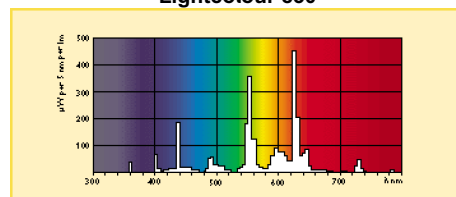
Product name	Colour Designation	Lamp Voltage EM (V)	Lamp Current EM (A)	Colour Temperature (K)
MASTER TL-D Xtra Polar Super 80 18W/830	Warm White	56	0.370	3000
MASTER TL-D Xtra Polar Super 80 18W/840	Cool White	56	0.370	4000
MASTER TL-D Xtra Polar Super 80 18W/865	Cool Daylight	56	0.370	6500
MASTER TL-D Xtra Polar Super 80 36W/830	Warm White	104	0.435	3000
MASTER TL-D Xtra Polar Super 80 36W/840	Cool White	104	0.435	4000
MASTER TL-D Xtra Polar Super 80 36W/865	Cool Daylight	104	0.435	6500
MASTER TL-D Xtra Polar Super 80 58W/830	Warm White	108	0.665	3000
MASTER TL-D Xtra Polar Super 80 58W/840	Cool White	108	0.665	4000
MASTER TL-D Xtra Polar Super 80 58W/865	Cool Daylight	108	0.665	6500

Logistic data

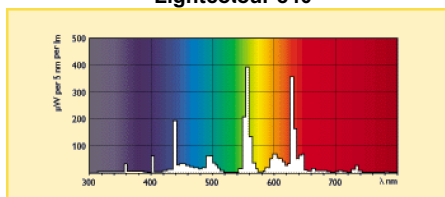
Product name	Packing type	Packing type de- scription	Packs per outer box	Packing configu- ration	Quantity per pack	Packing length (mm)	Packing width (mm)	Packing height (mm)	Gross weight per piece (g)	Net weight per piece (g)
MASTER TL-D Xtra Polar Super 80 18W/830	SLV	1 Sleeve	10	10	1	635	217	85	214	178
MASTER TL-D Xtra Polar Super 80 18W/840	SLV	1 Sleeve	10	10	1	635	217	85	214	178
MASTER TL-D Xtra Polar Super 80 18W/865	SLV	1 Sleeve	10	10	1	635	217	85	214	178
MASTER TL-D Xtra Polar Super 80 36W/830	SLV	1 Sleeve	10	10	1	1245	217	85	420	347
MASTER TL-D Xtra Polar Super 80 36W/840	SLV	1 Sleeve	10	10	1	1245	217	85	420	347
MASTER TL-D Xtra Polar Super 80 36W/865	SLV	1 Sleeve	10	10	1	1245	217	85	420	347
MASTER TL-D Xtra Polar Super 80 58W/830	SLV	1 Sleeve	10	10	1	1545	217	85	536	445
MASTER TL-D Xtra Polar Super 80 58W/840	SLV	1 Sleeve	10	10	1	1545	217	85	536	445
MASTER TL-D Xtra Polar Super 80 58W/865	SLV	1 Sleeve	10	10	1	1545	217	85	536	445

Spectral power distribution

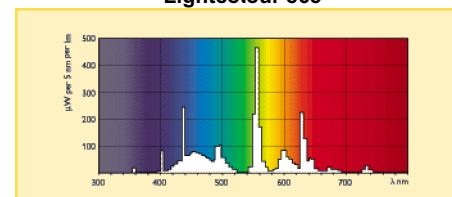
Lightcolour 830



Lightcolour 840

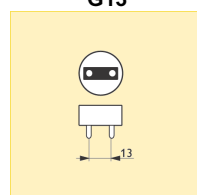


Lightcolour 865



Cap/Base

G13

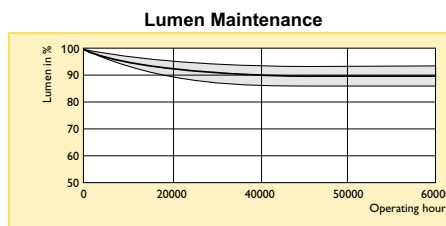
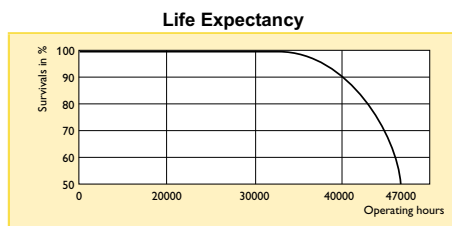


Additional extended technical data

Product name	Energy Efficiency Label	Mercury (Hg) Content (mg)	Chromatic- ity Coordinate X	Chromatic- ity Coordinate Y	Lamp Wattage EM (W)	Luminous Efficacy Lamp EM (lm/W)	Dimmable
MASTER TL-D Xtra Polar Super 80 18W/830	A	5	439	405	17.7	76	Yes
MASTER TL-D Xtra Polar Super 80 18W/840	A	5	382	381	17.7	76	Yes
MASTER TL-D Xtra Polar Super 80 18W/865	A	5	318	345	17.7	70	Yes
MASTER TL-D Xtra Polar Super 80 36W/830	A	5	438	402	37.0	90	Yes
MASTER TL-D Xtra Polar Super 80 36W/840	A	5	381	377	37.0	90	Yes
MASTER TL-D Xtra Polar Super 80 36W/865	A	5	316	342	37.0	89	Yes
MASTER TL-D Xtra Polar Super 80 58W/830	A	5	435	403	58.5	88	Yes
MASTER TL-D Xtra Polar Super 80 58W/840	A	5	381	380	58.5	88	Yes
MASTER TL-D Xtra Polar Super 80 58W/865	A	5	318	346	58.5	89	Yes

TL-D MASTER TL-D Xtra Polar Super 80

Life expectancy / Lumen maintenance diagrams



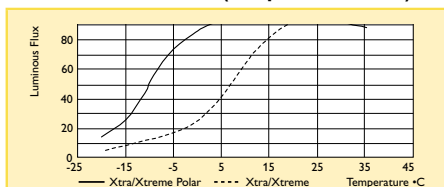
Special data

Product name	10NC	ILCOS	Life to 10% failures EM (h)	Life to 50% failures EM (h)	Life to 10% failures Non-preheat Electronic (h)	Life to 50% failures Non-preheat Electronic (h)	Life to 10% failures Preheat Electronic (h)	Life to 50% failures Preheat Electronic (h)
MASTER TL-D Xtra Polar Super 80 18W/830	9279 806 83000	FD-18/30/1B-E-G13	24000	28000	19000	22000	47000	55000
MASTER TL-D Xtra Polar Super 80 18W/840	9279 806 84000	FD-18/40/1B-E-G13	24000	28000	19000	22000	47000	55000
MASTER TL-D Xtra Polar Super 80 18W/865	9279 806 86500	FD-18/40/1B-E-G13	24000	28000	19000	22000	47000	55000
MASTER TL-D Xtra Polar Super 80 36W/830	9279 826 83000	FD-36/30/1B-E-G13	24000	28000	19000	22000	47000	55000
MASTER TL-D Xtra Polar Super 80 36W/840	9279 826 84000	FD-36/40/1B-E-G13	24000	28000	19000	22000	47000	55000
MASTER TL-D Xtra Polar Super 80 36W/865	9279 826 86500	FD-36/65/1B-E-G13	24000	28000	19000	22000	47000	55000
MASTER TL-D Xtra Polar Super 80 58W/830	9279 836 83000	FD-58/30/1B-E-G13	24000	28000	19000	22000	47000	55000
MASTER TL-D Xtra Polar Super 80 58W/840	9279 836 84000	FD-58/40/1B-E-G13	24000	28000	19000	22000	47000	55000
MASTER TL-D Xtra Polar Super 80 58W/865	9279 836 86500	FD-58/65/1B-E-G13	24000	28000	19000	22000	47000	55000

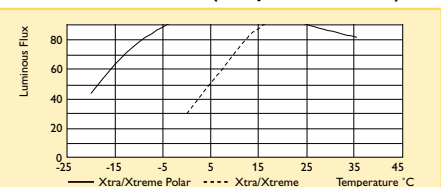
Product name	Lumen Maintenance EM 2000h (%)	Lumen Maintenance EM 5000h (%)	Lumen Maintenance EM 10000h (%)	Luminance Average EM (cd/cm ²)	Add. Info.	Bulb shape	Cap/Base Information
MASTER TL-D Xtra Polar Super 80 18W/830	96	94	94	1.00	Lifetime Guarantee Polar	T12	Green Plate
MASTER TL-D Xtra Polar Super 80 18W/840	96	94	94	1.00	Lifetime Guarantee Polar	T12	Green Plate
MASTER TL-D Xtra Polar Super 80 18W/865	94	90	87	1.00	Lifetime Guarantee Polar	T12	Green Plate
MASTER TL-D Xtra Polar Super 80 36W/830	96	94	94	1.25	Lifetime Guarantee Polar	T12	Green Plate
MASTER TL-D Xtra Polar Super 80 36W/840	96	94	94	1.25	Lifetime Guarantee Polar	T12	Green Plate
MASTER TL-D Xtra Polar Super 80 36W/865	94	90	87	1.25	Lifetime Guarantee Polar	T12	Green Plate
MASTER TL-D Xtra Polar Super 80 58W/830	96	94	94	1.50	Lifetime Guarantee Polar	T12	Green Plate
MASTER TL-D Xtra Polar Super 80 58W/840	96	94	94	1.50	Lifetime Guarantee Polar	T12	Green Plate
MASTER TL-D Xtra Polar Super 80 58W/865	94	90	87	1.50	Lifetime Guarantee Polar	T12	Green Plate

Lumen output versus temperature

TL-D Xtra/Xtreme 18W Polar vs TL-D Xtra/Xtreme 18W (in open luminaire)



TL-D Xtra/Xtreme 36W Polar vs TL-D Xtra/Xtreme 36W (in open luminaire)



TL-D Xtra/Xtreme 58W Polar vs TL-D Xtra/Xtreme 58W (in open luminaire)

