



Efficient fluorescent lighting with improved color rendering

MASTER TL-D Super 80

The MASTER TL-D Super 80 lamp offers more lumens per watt and better color rendering than TL-D standard colors. Furthermore, it has a lower mercury content. The lamp can be operated in existing TL-D luminaires.

Benefits

- Good color rendering
- Relatively high efficacy, both initially and during lamp lifetime, with high lumen maintenance
- Create atmospheres from warm white to cool daylight

Features

- Highly efficient 3-band fluorescent coating
- High initial light output compared with standard colors
- Low mercury dose
- Can be used with conventional or electronic gear
- Higher efficacy is achieved with electronic gear

Application

- Suitable for use in a wide range of luminaires for TL-D fluorescent lamps for 'human' applications such as schools, offices, shops, factory halls etc.

Warnings and Safety

- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

MASTER TL-D Super 80

Versions



Approval and Application

Mercury (Hg) Content (Max)	2 mg
Mercury (Hg) Content (Nom)	2.0 mg

Controls and Dimming

Dimmable	Yes
----------	-----

General Information

Cap-Base	G13
Life To 50% Failures Preheat (Nom)	20000 h
Life To 10% Failures (Nom)	12000 h
Life To 50% Failures (Nom)	15000 h
LSF 12000 h Rated	89 %
LSF 16000 h Rated	33 %
LSF 2000 h Rated	99 %
LSF 20000 h Rated	2 %

Light Technical

LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	91 %
LLMF 2000 h Rated	96 %
LLMF 20000 h Rated	90 %
LLMF 4000 h Rated	95 %
LLMF 6000 h Rated	94 %
LLMF 8000 h Rated	93 %

Mechanical and Housing

Bulb Shape	T8
------------	----

Temperature

Design Temperature (Nom)	25 °C
--------------------------	-------

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
63162640	MASTER TL-D SUPER 80 18W/827 1SL/25	19 kWh
63165740	MASTER TL-D Super 80 18W/830 1SL/25	19 kWh
63168840	MASTER TL-D Super 80 18W/835 1SL/25	19 kWh
63171840	MASTER TL-D Super 80 18W/840 1SL/25	19 kWh
63177040	MASTER TL-D Super 80 18W/865 1SL/25	19 kWh
63180040	MASTER TL-D Super 80 30W/827 1SL/25	31 kWh
63183140	MASTER TL-D Super 80 30W/830 1SL/25	31 kWh
63186240	MASTER TL-D Super 80 30W/840 1SL/25	31 kWh
63189340	MASTER TL-D Super 80 30W/865 1SL/25	31 kWh
63192340	MASTER TL-D Super 80 36W/827 1SL/25	37 kWh
63195440	MASTER TL-D Super 80 36W/830 1SL/25	37 kWh
63198540	MASTER TL-D Super 80 36W/835 1SL/25	37 kWh
63201240	MASTER TL-D Super 80 36W/840 1SL/25	37 kWh
63207440	MASTER TL-D Super 80 36W/865 1SL/25	37 kWh
63210440	MASTER TL-D Super 80 58W/827 1SL/25	60 kWh
63213540	MASTER TL-D Super 80 58W/830 1SL/25	60 kWh
63219740	MASTER TL-D Super 80 58W/840 1SL/25	60 kWh
63225840	MASTER TL-D Super 80 58W/865 1SL/25	60 kWh
70280740	MASTER TL-D Super 80 15W/840 1SL/25	16 kWh

Operating and Electrical

Order Code	Full Product Name	Lamp Current	
		(Nom)	Power (Nom)
63162640	MASTER TL-D SUPER 80 18W/827 1SL/25	0.360 A	18.2 W
63165740	MASTER TL-D Super 80 18W/830 1SL/25	0.360 A	18.2 W

Order Code	Full Product Name	Lamp Current	
		(Nom)	Power (Nom)
63168840	MASTER TL-D Super 80 18W/835 1SL/25	0.360 A	18.2 W
63171840	MASTER TL-D Super 80 18W/840 1SL/25	0.360 A	18.2 W

MASTER TL-D Super 80

Order Code	Full Product Name	Lamp Current	
		(Nom)	Power (Nom)
63177040	MASTER TL-D Super 80 18W/865 1SL/25	0.360 A	18.2 W
63180040	MASTER TL-D Super 80 30W/827 1SL/25	0.360 A	30.2 W
63183140	MASTER TL-D Super 80 30W/830 1SL/25	0.360 A	30.2 W
63186240	MASTER TL-D Super 80 30W/840 1SL/25	0.360 A	30.2 W
63189340	MASTER TL-D Super 80 30W/865 1SL/25	0.360 A	30.2 W
63192340	MASTER TL-D Super 80 36W/827 1SL/25	0.440 A	36.8 W
63195440	MASTER TL-D Super 80 36W/830 1SL/25	0.440 A	36.8 W
63198540	MASTER TL-D Super 80 36W/835 1SL/25	0.440 A	36.8 W

Order Code	Full Product Name	Lamp Current	
		(Nom)	Power (Nom)
63201240	MASTER TL-D Super 80 36W/840 1SL/25	0.440 A	36.8 W
63207440	MASTER TL-D Super 80 36W/865 1SL/25	0.440 A	36.8 W
63210440	MASTER TL-D Super 80 58W/827 1SL/25	0.670 A	59.4 W
63213540	MASTER TL-D Super 80 58W/830 1SL/25	0.670 A	59.4 W
63219740	MASTER TL-D Super 80 58W/840 1SL/25	0.670 A	59.4 W
63225840	MASTER TL-D Super 80 58W/865 1SL/25	0.670 A	59.4 W
70280740	MASTER TL-D Super 80 15W/840 1SL/25	0.335 A	15.5 W

General Information

Order Code	Full Product Name	LSF 4000 h	LSF 6000 h	LSF 8000 h
		Rated	Rated	Rated
63162640	MASTER TL-D SUPER 80 18W/827 1SL/25	99 %	99 %	99 %
63165740	MASTER TL-D Super 80 18W/830 1SL/25	99 %	99 %	99 %
63168840	MASTER TL-D Super 80 18W/835 1SL/25	99 %	99 %	99 %
63171840	MASTER TL-D Super 80 18W/840 1SL/25	99 %	99 %	99 %
63177040	MASTER TL-D Super 80 18W/865 1SL/25	99 %	99 %	99 %
63180040	MASTER TL-D Super 80 30W/827 1SL/25	97 %	96 %	95 %
63183140	MASTER TL-D Super 80 30W/830 1SL/25	99 %	99 %	99 %
63186240	MASTER TL-D Super 80 30W/840 1SL/25	99 %	99 %	99 %
63189340	MASTER TL-D Super 80 30W/865 1SL/25	99 %	99 %	99 %
63192340	MASTER TL-D Super 80 36W/827 1SL/25	99 %	99 %	99 %

Order Code	Full Product Name	LSF 4000 h	LSF 6000 h	LSF 8000 h
		Rated	Rated	Rated
63195440	MASTER TL-D Super 80 36W/830 1SL/25	99 %	99 %	99 %
63198540	MASTER TL-D Super 80 36W/835 1SL/25	99 %	99 %	99 %
63201240	MASTER TL-D Super 80 36W/840 1SL/25	99 %	99 %	99 %
63207440	MASTER TL-D Super 80 36W/865 1SL/25	99 %	99 %	99 %
63210440	MASTER TL-D Super 80 58W/827 1SL/25	99 %	99 %	99 %
63213540	MASTER TL-D Super 80 58W/830 1SL/25	99 %	99 %	99 %
63219740	MASTER TL-D Super 80 58W/840 1SL/25	99 %	99 %	99 %
63225840	MASTER TL-D Super 80 58W/865 1SL/25	99 %	99 %	99 %
70280740	MASTER TL-D Super 80 15W/840 1SL/25	99 %	99 %	99 %

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation
63162640	MASTER TL-D SUPER 80 18W/827 1SL/25	0.463	0.42	827	Incandescent White
63165740	MASTER TL-D Super 80 18W/830 1SL/25	0.44	0.403	830	Warm White (WW)
63168840	MASTER TL-D Super 80 18W/835 1SL/25	0.409	0.394	835	White (WH)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation
63171840	MASTER TL-D Super 80 18W/840 1SL/25	0.38	0.38	841	Cool White (CW)
63177040	MASTER TL-D Super 80 18W/865 1SL/25	0.313	0.337	865	Cool Daylight
63180040	MASTER TL-D Super 80 30W/827 1SL/25	0.463	0.42	827	Incandescent White

MASTER TL-D Super 80

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation
63183140	MASTER TL-D Super 80 30W/830 1SL/25	0.44	0.403	830	Warm White (WW)
63186240	MASTER TL-D Super 80 30W/840 1SL/25	0.38	0.38	841	Cool White (CW)
63189340	MASTER TL-D Super 80 30W/865 1SL/25	0.313	0.337	865	Cool Daylight
63192340	MASTER TL-D Super 80 36W/827 1SL/25	0.463	0.42	827	Incandescent White
63195440	MASTER TL-D Super 80 36W/830 1SL/25	0.44	0.403	830	Warm White (WW)
63198540	MASTER TL-D Super 80 36W/835 1SL/25	0.409	0.394	835	White (WH)
63201240	MASTER TL-D Super 80 36W/840 1SL/25	0.38	0.38	841	Cool White (CW)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation
63207440	MASTER TL-D Super 80 36W/865 1SL/25	0.313	0.337	865	Cool Daylight
63210440	MASTER TL-D Super 80 58W/827 1SL/25	0.463	0.42	827	Incandescent White
63213540	MASTER TL-D Super 80 58W/830 1SL/25	0.44	0.403	830	Warm White (WW)
63219740	MASTER TL-D Super 80 58W/840 1SL/25	0.38	0.38	841	Cool White (CW)
63225840	MASTER TL-D Super 80 58W/865 1SL/25	0.313	0.337	865	Cool Daylight
70280740	MASTER TL-D Super 80 15W/840 1SL/25	0.38	0.38	841	Cool White (CW)

Light Technical (2/2)

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
		63162640	MASTER TL-D SUPER 80 18W/827 1SL/25	2700 K	82	75 lm/W
63165740	MASTER TL-D Super 80 18W/830 1SL/25	3000 K	82	75 lm/W	1350 lm	1350 lm
63168840	MASTER TL-D Super 80 18W/835 1SL/25	3500 K	82	75 lm/W	1350 lm	1350 lm
63171840	MASTER TL-D Super 80 18W/840 1SL/25	4000 K	81	75 lm/W	1350 lm	1350 lm
63177040	MASTER TL-D Super	6500 K	80	68 lm/W	1300 lm	1300 lm

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
		80 18W/865 1SL/25				
63180040	MASTER TL-D Super 80 30W/827 1SL/25	2700 K	82	80 lm/W	2400 lm	2400 lm
63183140	MASTER TL-D Super 80 30W/830 1SL/25	3000 K	82	80 lm/W	2400 lm	2400 lm
63186240	MASTER TL-D Super 80 30W/840 1SL/25	4000 K	81	80 lm/W	2400 lm	2400 lm
63189340	MASTER TL-D Super 80	6500 K	81	76.7 lm/W	2350 lm	2300 lm

MASTER TL-D Super 80

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
	30W/865 1SL/25					
63192340	MASTER TL-D Super 80 36W/827 1SL/25	2700 K	82	93 lm/W	3350 lm	3350 lm
63195440	MASTER TL-D Super 80 36W/830 1SL/25	3000 K	82	93 lm/W	3350 lm	3350 lm
63198540	MASTER TL-D Super 80 36W/835 1SL/25	3500 K	82	93 lm/W	3350 lm	3350 lm
63201240	MASTER TL-D Super 80 36W/840 1SL/25	4000 K	80	93 lm/W	3350 lm	3350 lm
63207440	MASTER TL-D Super 80	6500 K	80	84 lm/W	3200 lm	3250 lm

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
	36W/865 1SL/25					
63210440	MASTER TL-D Super 80 58W/827 1SL/25	2700 K	82	90 lm/W	5240 lm	5240 lm
63213540	MASTER TL-D Super 80 58W/830 1SL/25	3000 K	82	90 lm/W	5240 lm	5240 lm
63219740	MASTER TL-D Super 80 58W/840 1SL/25	4000 K	80	90 lm/W	5240 lm	5240 lm
63225840	MASTER TL-D Super 80 58W/865 1SL/25	6500 K	80	81 lm/W	5000 lm	5000 lm
70280740	MASTER TL-D Super 80 15W/840 1SL/25	4000 K	82	67 lm/W	1000 lm	1000 lm

