



The new generation of energy saving tube lighting

MASTER LEDtube GA

The Philips MASTER LEDtube integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance which cannot be distinguished from traditional fluorescent. This product is the ideal solution for up lamping in general lighting applications.

Benefits

- Reduced operational cost thanks to lower energy consumption
- Lower maintenance cost thanks to 2-3 times longer lifetime than normal fluorescent tubes
- Fastest and easiest way to upgrade existing luminaire to LED technology; 100%- safe installation process

Features

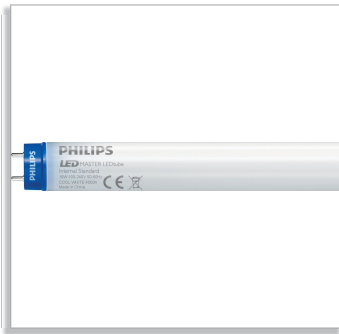
- Only 50% energy consumption compared to fluorescent tubes
- Extra-long life of 40,000 hours
- Retrofit to existing T8 lamps on EM ballast installations
- Full safety features and EM Protector safety device
- No mercury

Application

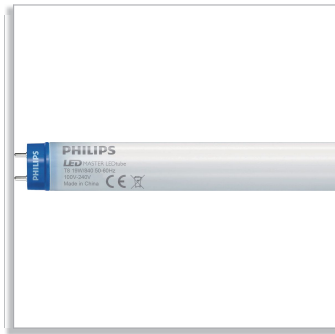
- Parking lots / covered car parks
- Warehouses / coldrooms / signage
- Transport and distribution areas



Related products



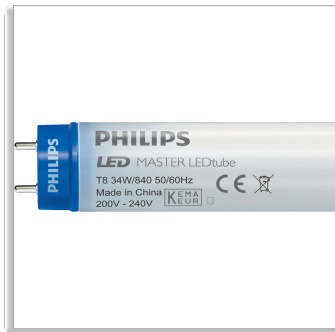
MASTER LEDtube T8 G13



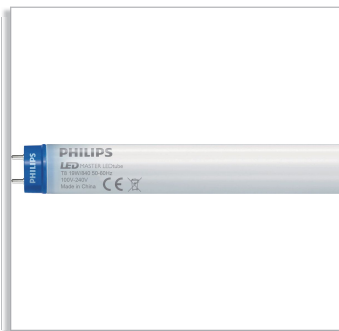
MASTER LEDtube Performer



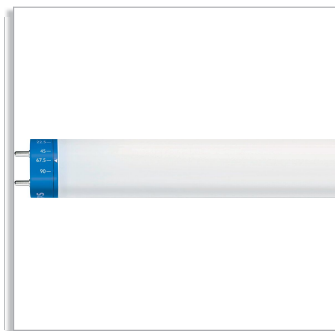
MASTER LEDtube GA200



MASTER LEDtube GA210



MASTER LEDtube GA300



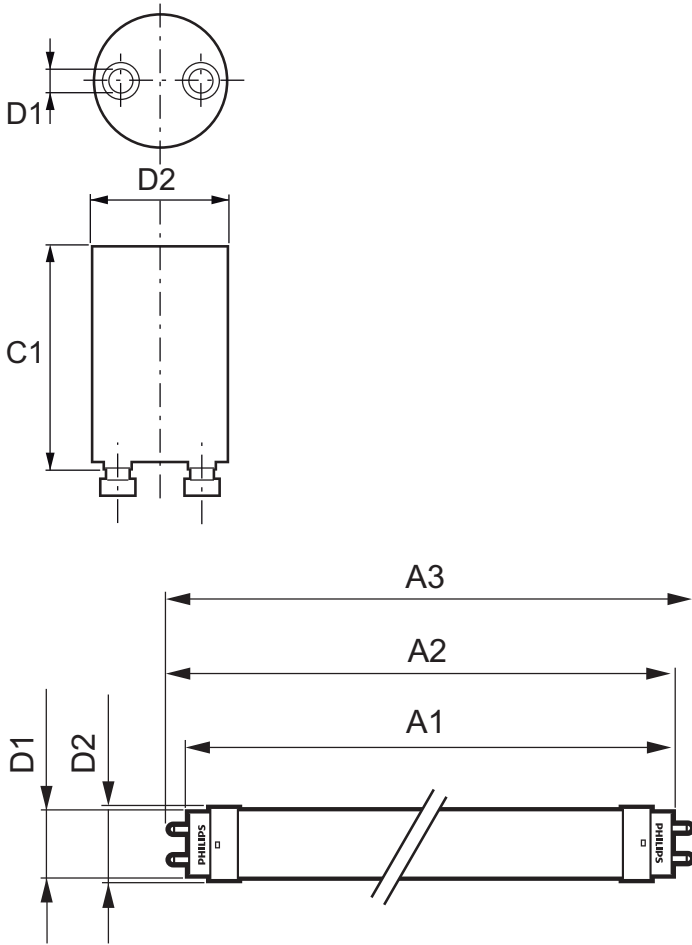
MASTER LEDtube GA 300 & GA110
ROT



MASTER LEDtube Starter EMP 050 CP

Dimensional drawing

Dimensional drawing



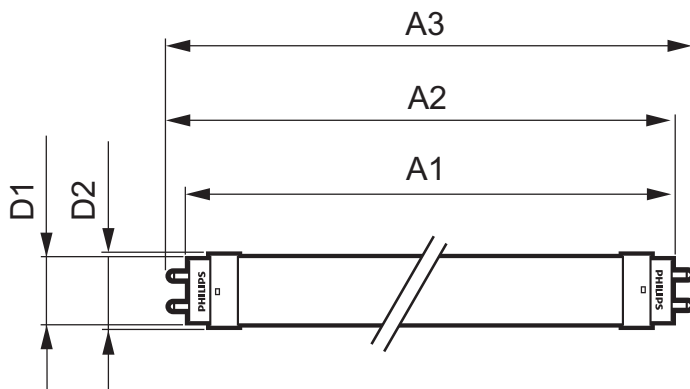
MASTER LEDtube Starter EMP 050 CP

Product	A1 (Norm)	B1 (Norm)	C1 (Norm)	D1 (Norm)	D2 (Norm)
MASTER LEDtube prot. starter	-	-	34.5	3	21.5

MASTER LEDtube GA200 600mm 13W 840 G13

Product	A1 (Norm)	A2 (Norm)	A3 (Norm)	D1 (Norm)	D2 (Norm)
LEDtube GA200 600mm 13W 840 G13	588.5	595.5	602.5	25.68	28
LEDtube GA200 1200mm 25W 840 G13	1198.0	1205.0	1212.0	25.68	28
LEDtube GA300 600mm 11W/840	588.5	595.5	602.5	25.68	28
LEDtube GA300 600mm 11W/840	588.5	595.5	602.5	25.68	28
LEDtube GA300 600mm 11W/865	588.5	595.5	602.5	25.68	28
LEDtube GA300 600mm 11W/865	588.5	595.5	602.5	25.68	28
LEDtube GA300 1200mm 22W/840	1198.0	1205.0	1212.0	25.68	28
LEDtube GA300 1200mm 22W/840	1198.0	1205.0	1212.0	25.68	28
LEDtube GA300 1200mm 22W/865	1198.0	1205.0	1212.0	25.68	28
LEDtube GA300 1200mm 22W/865	1198.0	1205.0	1212.0	25.68	28
LEDtube GA210 1500mm 34W 840 G13	1500.0	1507.1	1514.2	25.68	28
LEDtube GA300 1800mm 45W 840 C	1763.8	1770.9	1778.0	25.68	28
LEDtube GA300 600mm 11W 840 I ROT	588.5	595.5	602.5	25.68	28
LEDtube GA300 1200mm 22W 840 I ROT	1198.0	1205.0	1212.0	25.68	28
LEDtube GA110 600mm 10W 840 I ROT	588.5	595.5	602.5	25.68	28
LEDtube GA110 1200mm 19W 840 I ROT	1198.0	1205.0	1212.0	25.68	28
LEDtube GA110 1500mm 24W 840 I ROT	1500.0	1507.1	1514.2	25.68	28

Dimensional drawing



MASTER TLED INT STD 600mm 10W840 T8 AP I

Product	A1 (Norm)	A2 (Norm)	A3 (Norm)	D1 (Norm)	D2 (Norm)
TLED INT STD 600mm 10W840 T8	588.5	595.5	602.5	25.68	28
TLED INT STD 600mm 10W840 T8	588.5	595.5	602.5	25.68	28
TLED INT STD 600mm 10W865 T8	588.5	595.5	602.5	25.68	28
TLED INT STD 600mm 10W865 T8	588.5	595.5	602.5	25.68	28
TLED INT STD 900mm 15W840 T8	893.5	900.5	907.5	25.68	28
TLED INT STD 900mm 15W840 T8	893.5	900.5	907.5	25.68	28
TLED INT STD 900mm 15W865 T8	893.5	900.5	907.5	25.68	28
TLED INT STD 900mm 15W865 T8	893.5	900.5	907.5	25.68	28
TLED INT STD 1200mm 19W840 T8	1198.0	1205.0	1212.0	25.68	28
TLED INT STD 1200mm 19W840 T8	1198.0	1205.0	1212.0	25.68	28
TLED INT STD 1200mm 19W865 T8	1198.0	1205.0	1212.0	25.68	28
TLED INT STD 1200mm 19W865 T8	1198.0	1205.0	1212.0	25.68	28
TLED INT STD 1500mm 24W840 T8	1500.0	1507.0	1514.0	25.68	28
TLED INT STD 1500mm 24W840 T8	1500.0	1507.0	1514.0	25.68	28
TLED INT STD 1500mm 24W865 T8	1500.0	1507.0	1514.0	25.68	28
TLED INT STD 1500mm 24W865 T8	1500.0	1507.0	1514.0	25.68	28
TLED PERF 1500mm 31W865 T8 C	1500.0	1507.0	1514.0	25.68	28
TLED PERF 1500mm 31W840 T8 C	1500.0	1507.0	1514.0	25.68	28

General Characteristics

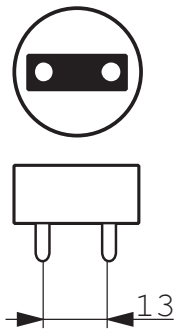
Order code	Full product name	Cap-Base	Average Life At Ambient 25°C
929000295201	MASTER LEDtube GA110 600mm 10W 840 C	G13	-
929000295202	MASTER LEDtube GA110 600mm 10W 840 I	G13	-
929000295301	MASTER LEDtube GA110 600mm 10W 865 C	G13	-
929000295302	MASTER LEDtube GA110 600mm 10W 865 I	G13	-
929000295401	MASTER LEDtube GA110 900mm 15W 840 C	G13	-
929000295402	MASTER LEDtube GA110 900mm 15W 840 I	G13	-
929000295501	MASTER LEDtube GA110 900mm 15W 865 C	G13	-

Order code	Full product name	Cap-Base	Average Life At Ambient 25°C
929000295502	MASTER LEDtube GA110 900mm 15W 865 I	G13	-
929000295901	MASTER LEDtube GA110 1200mm 19W 840 I	G13	-
929000295902	MASTER LEDtube GA110 1200mm 19W 840 C	G13	-
929000296001	MASTER LEDtube GA110 1200mm 19W 865 I	G13	-
929000296002	MASTER LEDtube GA110 1200mm 19W 865 C	G13	-
929000296101	MASTER LEDtube GA110 1500mm 24W 840 I	G13	-
929000296102	MASTER LEDtube GA110 1500mm 24W 840 C	G13	-

Order code	Full product name	Cap-Base	Average Life At Ambient 25°C
929000296201	MASTER LEDtube GA110 1500mm 24W 865 I	G13	-
929000296202	MASTER LEDtube GA110 1500mm 24W 865 C	G13	-
929000299702	MASTER LEDtube PERF 1500mm 31W865 T8 C	G13	-
929000299802	MASTER LEDtube PERF 1500mm 31W840 T8 C	G13	-
929000291202	MASTER LEDtube GA200 600mm 13W 840 G13	G13	40000 hr
929000291302	MASTER LEDtube GA200 1200mm 25W 840 G13	G13	40000 hr
929000293202	MASTER LEDtube GA210 1500mm 34W 840 G13	G13	50000 hr
929000292701	MASTER LEDtube GA300 600mm 11W 840 C	G13	50000 hr
929000292702	MASTER LEDtube GA300 600mm 11W 840 I	G13	50000 hr
929000292801	MASTER LEDtube GA300 600mm 11W 865 C	G13	50000 hr
929000292802	MASTER LEDtube GA300 600mm 11W 865 I	G13	50000 hr

Order code	Full product name	Cap-Base	Average Life At Ambient 25°C
929000292901	MASTER LEDtube GA300 1200mm 22W 840 I	G13	50000 hr
929000292902	MASTER LEDtube GA300 1200mm 22W 840 C	G13	50000 hr
929000293101	MASTER LEDtube GA300 1200mm 22W 865 I	G13	50000 hr
929000293102	MASTER LEDtube GA300 1200mm 22W 865 C	G13	50000 hr
929000298102	MASTER LEDtube GA300 1800mm 45W 840 C	G13	50000 hr
929000298402	MASTER LEDtube GA300 600mm 11W 840 I ROT	G13 ROT	50000 hr
929000298502	MASTER LEDtube GA300 1200mm 22W 840 I ROT	G13	50000 hr
929000298602	MASTER LEDtube GA110 600mm 10W 840 I ROT	G13 ROT	40000 hr
929000298702	MASTER LEDtube GA110 1200mm 19W 840 I ROT	G13 ROT	40000 hr
929000298802	MASTER LEDtube GA110 1500mm 24W 840 I ROT	G13 ROT	40000 hr

Installation diagrams



G13

Light Technical Characteristics

Order code	Full product name	Color Code	Beam Angle	Luminous Flux	Color rendering index
929000295201	MASTER LEDtube GA110 600mm 10W 840 C	840	-	825 Lm	83

Order code	Full product name	Color Code	Beam Angle	Luminous Flux	Color rendering index
929000295202	MASTER LEDtube GA110 600mm 10W 840 I	840	-	825 Lm	83

Order code	Full product name	Color Code	Beam Angle	Luminous Flux	Color rendering index
929000295301	MASTER LEDtube GA110 600mm 10W 865 C	865	-	825 Lm	83
929000295302	MASTER LEDtube GA110 600mm 10W 865 I	865	-	825 Lm	83
929000295401	MASTER LEDtube GA110 900mm 15W 840 C	840	-	1265 Lm	83
929000295402	MASTER LEDtube GA110 900mm 15W 840 I	840	-	1265 Lm	83
929000295501	MASTER LEDtube GA110 900mm 15W 865 C	865	-	1265 Lm	83
929000295502	MASTER LEDtube GA110 900mm 15W 865 I	865	-	1265 Lm	83
929000295901	MASTER LEDtube GA110 1200mm 19W 840 I	840	-	1650 Lm	83
929000295902	MASTER LEDtube GA110 1200mm 19W 840 C	840	-	1650 Lm	83
929000296001	MASTER LEDtube GA110 1200mm 19W 865 I	865	-	1650 Lm	83
929000296002	MASTER LEDtube GA110 1200mm 19W 865 C	865	-	1650 Lm	83
929000296101	MASTER LEDtube GA110 1500mm 24W 840 I	840	-	2065 Lm	83
929000296102	MASTER LEDtube GA110 1500mm 24W 840 C	840	-	2065 Lm	83
929000296201	MASTER LEDtube GA110 1500mm 24W 865 I	865	-	2065 Lm	83
929000296202	MASTER LEDtube GA110 1500mm 24W 865 C	865	-	2065 Lm	83
929000299702	MASTER LEDtube PERF 1500mm 31W865 T8 C	865	140 D	3100 Lm	85
929000299802	MASTER LEDtube PERF 1500mm 31W840 T8 C	840	140 D	3100 Lm	85
929000291202	MASTER LEDtube GA200 600mm 13W 840 G13	840	200 D	925 Lm	85
929000291302	MASTER LEDtube GA200 1200mm 25W 840 G13	840	200 D	1850 Lm	85
929000293202	MASTER LEDtube GA210 1500mm 34W 840 G13	840	140 D	3000 Lm	85
929000292701	MASTER LEDtube GA300 600mm 11W 840 C	840	140 D	1050 Lm	85

Order code	Full product name	Color Code	Beam Angle	Luminous Flux	Color rendering index
929000292702	MASTER LEDtube GA300 600mm 11W 840 I	840	140 D	1050 Lm	85
929000292801	MASTER LEDtube GA300 600mm 11W 865 C	865	140 D	1050 Lm	85
929000292802	MASTER LEDtube GA300 600mm 11W 865 I	865	140 D	1050 Lm	85
929000292901	MASTER LEDtube GA300 1200mm 22W 840 I	840	140 D	2100 Lm	85
929000292902	MASTER LEDtube GA300 1200mm 22W 840 C	840	140 D	2100 Lm	85
929000293101	MASTER LEDtube GA300 1200mm 22W 865 I	865	140 D	2100 Lm	85
929000293102	MASTER LEDtube GA300 1200mm 22W 865 C	865	140 D	2100 Lm	85
929000298102	MASTER LEDtube GA300 1800mm 45W 840 C	840	140 D	4000 Lm	85
929000298402	MASTER LEDtube GA300 600mm 11W 840 I ROT	840	140 D	1050 Lm	85
929000298502	MASTER LEDtube GA300 1200mm 22W 840 I ROT	840	140 D	2100 Lm	85
929000298602	MASTER LEDtube GA110 600mm 10W 840 I ROT	840	-	825 Lm	83
929000298702	MASTER LEDtube GA110 1200mm 19W 840 I ROT	840	-	1650 Lm	83
929000298802	MASTER LEDtube GA110 1500mm 24W 840 I ROT	840	-	2065 Lm	83

Electrical Characteristics

Order code	Full product name	Wattage	Voltage
929000295201	MASTER LEDtube GA110 600mm 10W 840 C	10 W	100-240 V
929000295202	MASTER LEDtube GA110 600mm 10W 840 I	10 W	100-240 V
929000295301	MASTER LEDtube GA110 600mm 10W 865 C	10 W	100-240 V
929000295302	MASTER LEDtube GA110 600mm 10W 865 I	10 W	100-240 V
929000295401	MASTER LEDtube GA110 900mm 15W 840 C	15 W	100-240 V
929000295402	MASTER LEDtube GA110 900mm 15W 840 I	15 W	100-240 V
929000295501	MASTER LEDtube GA110 900mm 15W 865 C	15 W	100-240 V
929000295502	MASTER LEDtube GA110 900mm 15W 865 I	15 W	100-240 V
929000295901	MASTER LEDtube GA110 1200mm 19W 840 I	19 W	100-240 V
929000295902	MASTER LEDtube GA110 1200mm 19W 840 C	19 W	100-240 V
929000296001	MASTER LEDtube GA110 1200mm 19W 865 I	19 W	100-240 V
929000296002	MASTER LEDtube GA110 1200mm 19W 865 C	19 W	100-240 V
929000296101	MASTER LEDtube GA110 1500mm 24W 840 I	24 W	100-240 V

Order code	Full product name	Wattage	Voltage
929000296102	MASTER LEDtube GA110 1500mm 24W 840 C	24 W	100-240 V
929000296201	MASTER LEDtube GA110 1500mm 24W 865 I	24 W	100-240 V
929000296202	MASTER LEDtube GA110 1500mm 24W 865 C	24 W	100-240 V
929000299702	MASTER LEDtube PERF 1500mm 31W865 T8 C	31 W	220-240 V
929000299802	MASTER LEDtube PERF 1500mm 31W840 T8 C	31 W	220-240 V
929000291202	MASTER LEDtube GA200 600mm 13W 840 G13	13 W	-
929000291302	MASTER LEDtube GA200 1200mm 25W 840 G13	25 W	-
929000293202	MASTER LEDtube GA210 1500mm 34W 840 G13	34 W	100-240 V
929000292701	MASTER LEDtube GA300 600mm 11W 840 C	11 W	100-240 V
929000292702	MASTER LEDtube GA300 600mm 11W 840 I	11 W	100-240 V
929000292801	MASTER LEDtube GA300 600mm 11W 865 C	11 W	100-240 V
929000292802	MASTER LEDtube GA300 600mm 11W 865 I	11 W	100-240 V
929000292901	MASTER LEDtube GA300 1200mm 22W 840 I	22 W	100-240 V
929000292902	MASTER LEDtube GA300 1200mm 22W 840 C	22 W	100-240 V
929000293101	MASTER LEDtube GA300 1200mm 22W 865 I	22 W	100-240 V
929000293102	MASTER LEDtube GA300 1200mm 22W 865 C	22 W	100-240 V
929000298102	MASTER LEDtube GA300 1800mm 45W 840 C	45 W	100-240 V
929000298402	MASTER LEDtube GA300 600mm 11W 840 I ROT	11 W	100-240 V
929000298502	MASTER LEDtube GA300 1200mm 22W 840 I ROT	22 W	100-240 V
929000298602	MASTER LEDtube GA110 600mm 10W 840 I ROT	10 W	100-240 V
929000298702	MASTER LEDtube GA110 1200mm 19W 840 I ROT	19 W	100-240 V
929000298802	MASTER LEDtube GA110 1500mm 24W 840 I ROT	24 W	100-240 V

Temperature Characteristics

Order code	Full product name	T-case maximum	Operating temperature	T-Storage
929000295201	MASTER LEDtube GA110 600mm 10W 840 C	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000295202	MASTER LEDtube GA110 600mm 10W 840 I	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000295301	MASTER LEDtube GA110 600mm 10W 865 C	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000295302	MASTER LEDtube GA110 600mm 10W 865 I	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000295401	MASTER LEDtube GA110 900mm 15W 840 C	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000295402	MASTER LEDtube GA110 900mm 15W 840 I	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000295501	MASTER LEDtube GA110 900mm 15W 865 C	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000295502	MASTER LEDtube GA110 900mm 15W 865 I	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C

Order code	Full product name	T-case maximum	Operating temperature	T-Storage
929000295901	MASTER LEDtube GA110 1200mm 19W 840 I	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000295902	MASTER LEDtube GA110 1200mm 19W 840 C	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000296001	MASTER LEDtube GA110 1200mm 19W 865 I	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000296002	MASTER LEDtube GA110 1200mm 19W 865 C	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000296101	MASTER LEDtube GA110 1500mm 24W 840 I	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000296102	MASTER LEDtube GA110 1500mm 24W 840 C	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000296201	MASTER LEDtube GA110 1500mm 24W 865 I	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000296202	MASTER LEDtube GA110 1500mm 24W 865 C	62 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000299702	MASTER LEDtube PERF 1500mm 31W865 T8 C	55 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000299802	MASTER LEDtube PERF 1500mm 31W840 T8 C	55 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000291202	MASTER LEDtube GA200 600mm 13W 840 G13	55 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000291302	MASTER LEDtube GA200 1200mm 25W 840 G13	55 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000293202	MASTER LEDtube GA210 1500mm 34W 840 G13	55 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000292701	MASTER LEDtube GA300 600mm 11W 840 C	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000292702	MASTER LEDtube GA300 600mm 11W 840 I	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000292801	MASTER LEDtube GA300 600mm 11W 865 C	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000292802	MASTER LEDtube GA300 600mm 11W 865 I	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000292901	MASTER LEDtube GA300 1200mm 22W 840 I	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000292902	MASTER LEDtube GA300 1200mm 22W 840 C	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000293101	MASTER LEDtube GA300 1200mm 22W 865 I	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C

Order code	Full product name	T-case maximum	Operating temperature	T-Storage
929000293102	MASTER LEDtube GA300 1200mm 22W 865 C	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000298102	MASTER LEDtube GA300 1800mm 45W 840 C	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000298402	MASTER LEDtube GA300 600mm 11W 840 I ROT	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000298502	MASTER LEDtube GA300 1200mm 22W 840 I ROT	85 (max) C	-30 (min), 45 (max) C	-40 (min), 65 (max) C

Order code	Full product name	T-case maximum	Operating temperature	T-Storage
929000298602	MASTER LEDtube GA110 600mm 10W 840 I ROT	-	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000298702	MASTER LEDtube GA110 1200mm 19W 840 I ROT	-	-30 (min), 45 (max) C	-40 (min), 65 (max) C
929000298802	MASTER LEDtube GA110 1500mm 24W 840 I ROT	-	-30 (min), 45 (max) C	-40 (min), 65 (max) C



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www.philips.com/lighting

2013, May 14
data subject to change