

# RETROFIT TUBE



## ITEM DESCRIPTION

With the LED Retrofit tube we introduce a convenient step ahead solution to upgrade existing fluorescent tubes for city lights, bus shelters, and similar. Our double-sided tubes vary in length from 0.6 to 2.4 meters and have two optional covers: clear and milky. It also comes with three connection options: G13 socket, two sides plug, or double plug. Product versatility, great efficacy of up to 148 lm/W, IP67 protection class, and 5-year warranty make it easy to choose this upgrade.

## APPLICATION

- Street furniture applications
- T8 replacement
- Outdoor conditions
- Recommended depth 140 – 400 mm

## FEATURES & BENEFITS

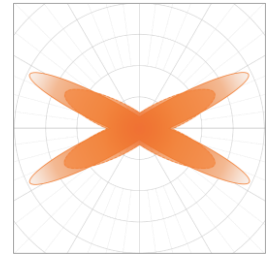
- Efficacy up to 148 lm/W
- Uniform illumination
- Optional connection: G13 socket | two sides plug | double plug
- Premium quality
- IP67 protection class
- 5-year warranty

## GENERAL SPECIFICATIONS

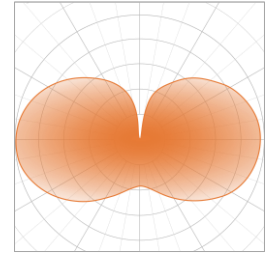
SUPPLY VOLTAGE	220 VAC   24 VDC
POWER FACTOR	> 0.90
EFFICACY	138 lm/W - 148 lm/W
CCT	6500 ± 250 K   4000 ± 250 K
CRI	80
BEAM ANGLE	2 x 160°   2 x 180°
IP CLASS	IP67
RECOMMENDED DEPTH	From 140 to 400 mm
OPERATING TEMPERATURE	-20 °C ~ +40 °C
STORAGE TEMPERATURE	-40 °C ~ +80 °C
STORAGE CONDITIONS	Relative humidity <60%
LIFETIME	L70 50 000 h
MOUNTING OPTIONS	G13 socket   double plug, top   two sides plug
CERTIFICATION	CE and RoHS compliant
WARRANTY	5 years*

\* Warranty is applied only and if storage, mounting and maintenance conditions, stated in the installation guide, are followed.

## LIGHT DISTRIBUTION GRAPH



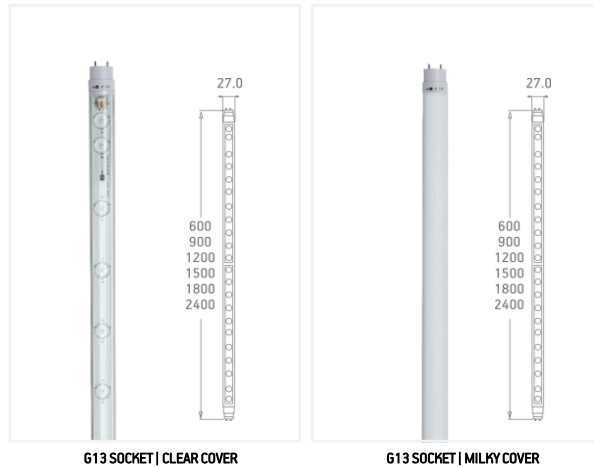
Beam angle: 2 x 160° (clear cover)



Beam angle: 2 x 180° (milky cover)

## DIMENSIONS, MM

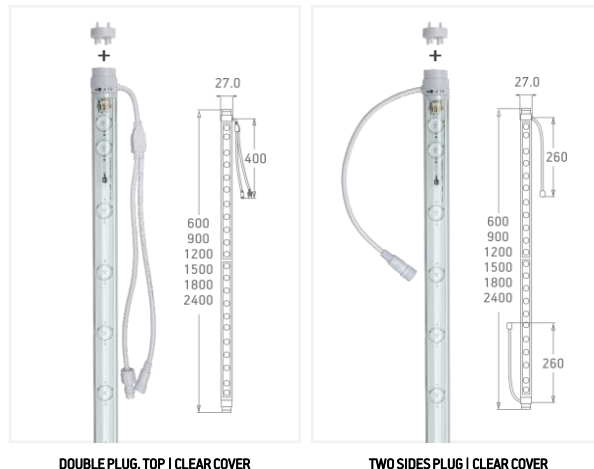
### DIRECT CONNECTION



G13 SOCKET | CLEAR COVER

G13 SOCKET | MILKY COVER

### INDIRECT CONNECTION | end cap needed



DOUBLE PLUG, TOP | CLEAR COVER

TWO SIDES PLUG | CLEAR COVER

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5 YEARS WARRANTY

## ORDERING INFORMATION

## RETROFIT TUBES

SKU	DIMENSIONS, MM	CCT	COVER TYPE	CONNECTOR	VOLTAGE	POWER	LUMEN OUTPUT, LM	STATUS
BTBP-T8C-060A320865E10-DP24V	600 x 27	6500 ± 250 K	clear	double plug, top	24 V	10 ± 3%	1430 ± 3%	PRE-ORDER
BTBP-T8C-060A320865E10-DP	600 x 27	6500 ± 250 K	clear	double plug, top	220 V	10 ± 3%	1480 ± 3%	PRE-ORDER
BTBP-T8C-060A320865E10-TSP24V	600 x 27	6500 ± 250 K	clear	two sides plug	24 V	10 ± 3%	1430 ± 3%	PRE-ORDER
BTBP-T8C-060A320865E10-TSP	600 x 27	6500 ± 250 K	clear	two sides plug	220 V	10 ± 3%	1480 ± 3%	PRE-ORDER
BTBP-T8C-060A320865E10-G13	600 x 27	6500 ± 250 K	clear	G13	220 V	10 ± 3%	1480 ± 3%	PRE-ORDER
BTBP-T8M-060A320865E10-G13	600 x 27	4000 ± 250 K	milky	G13	220 V	10 ± 3%	1380 ± 3%	PRE-ORDER
BTBP-T8C-090A320865E12-DP24V	900 x 27	6500 ± 250 K	clear	double plug, top	24 V	12 ± 3%	1716 ± 3%	PRE-ORDER
BTBP-T8C-090A320865E12-DP	900 x 27	6500 ± 250 K	clear	double plug, top	220 V	12 ± 3%	1776 ± 3%	PRE-ORDER
BTBP-T8C-090A320865E12-TSP24V	900 x 27	6500 ± 250 K	clear	two sides plug	24 V	12 ± 3%	1716 ± 3%	PRE-ORDER
BTBP-T8C-090A320865E12-TSP	900 x 27	6500 ± 250 K	clear	two sides plug	220 V	12 ± 3%	1776 ± 3%	PRE-ORDER
BTBP-T8C-090A320865E12-G13	900 x 27	6500 ± 250 K	clear	G13	220 V	12 ± 3%	1776 ± 3%	PRE-ORDER
BTBP-T8M-090A320865E12-G13	900 x 27	4000 ± 250 K	milky	G13	220 V	14 ± 3%	1932 ± 3%	PRE-ORDER
BTBP-T8C-120A320865E18-DP24V	1200 x 27	6500 ± 250 K	clear	double plug, top	24 V	18 ± 3%	2574 ± 3%	PRE-ORDER
BTBP-T8C-120A320865E18-DP	1200 x 27	6500 ± 250 K	clear	double plug, top	220 V	18 ± 3%	2664 ± 3%	PRE-ORDER
BTBP-T8C-120A320865E18-TSP24V	1200 x 27	6500 ± 250 K	clear	two sides plug	24 V	18 ± 3%	2574 ± 3%	PRE-ORDER
BTBP-T8C-120A320865E18-TSP	1200 x 27	6500 ± 250 K	clear	two sides plug	220 V	18 ± 3%	2664 ± 3%	PRE-ORDER
BTBP-T8C-120A320865E18-G13	1200 x 27	6500 ± 250 K	clear	G13	220 V	18 ± 3%	2664 ± 3%	PRE-ORDER
BTBP-T8M-120A320865E18-G13	1200 x 27	4000 ± 250 K	milky	G13	220 V	20 ± 3%	2766 ± 3%	PRE-ORDER
BTBP-T8C-150A320865E20-DP24V	1500 x 27	6500 ± 250 K	clear	double plug, top	24 V	20 ± 3%	2866 ± 3%	PRE-ORDER
BTBP-T8C-150A320865E20-DP	1500 x 27	6500 ± 250 K	clear	double plug, top	220 V	20 ± 3%	2960 ± 3%	PRE-ORDER
BTBP-T8C-150A320865E20-TSP24V	1500 x 27	6500 ± 250 K	clear	two sides plug	24 V	20 ± 3%	2866 ± 3%	PRE-ORDER
BTBP-T8C-150A320865E20-TSP	1500 x 27	6500 ± 250 K	clear	two sides plug	220 V	20 ± 3%	2960 ± 3%	PRE-ORDER
BTBP-T8C-150A320865E20-G13	1500 x 27	6500 ± 250 K	clear	G13	220 V	20 ± 3%	2960 ± 3%	PRE-ORDER
BTBP-T8M-150A320865E20-G13	1500 x 27	4000 ± 250 K	milky	G13	220 V	22 ± 3%	3036 ± 3%	PRE-ORDER
BTBP-T8C-180A320865E28-DP24V	1800 x 27	6500 ± 250 K	clear	double plug, top	24 V	28 ± 3%	4004 ± 3%	PRE-ORDER
BTBP-T8C-180A320865E30-DP	1800 x 27	6500 ± 250 K	clear	double plug, top	220 V	30 ± 3%	4440 ± 3%	PRE-ORDER
BTBP-T8C-180A320865E28-TSP24V	1800 x 27	6500 ± 250 K	clear	two sides plug	24 V	28 ± 3%	4004 ± 3%	PRE-ORDER
BTBP-T8C-180A320865E30-TSP	1800 x 27	6500 ± 250 K	clear	two sides plug	220 V	30 ± 3%	4440 ± 3%	PRE-ORDER
BTBP-T8C-180A320865E28-G13	1800 x 27	6500 ± 250 K	clear	G13	220 V	28 ± 3%	4144 ± 3%	PRE-ORDER
BTBP-T8M-180A320865E28-G13	1800 x 27	4000 ± 250 K	milky	G13	220 V	32 ± 3%	4416 ± 3%	PRE-ORDER
BTBP-T8C-240A320865E40-DP24V	2400 x 27	6500 ± 250 K	clear	double plug, top	24 V	40 ± 3%	5720 ± 3%	PRE-ORDER
BTBP-T8C-240A320865E40-DP	2400 x 27	6500 ± 250 K	clear	double plug, top	220 V	40 ± 3%	5920 ± 3%	PRE-ORDER
BTBP-T8C-240A320865E40-TSP24V	2400 x 27	6500 ± 250 K	clear	two sides plug	24 V	40 ± 3%	5720 ± 3%	PRE-ORDER
BTBP-T8C-240A320865E40-TSP	2400 x 27	6500 ± 250 K	clear	two sides plug	220 V	40 ± 3%	5920 ± 3%	PRE-ORDER
BTBP-T8C-240A320865E40-G13	2400 x 27	6500 ± 250 K	clear	G13	220 V	40 ± 3%	5920 ± 3%	PRE-ORDER
BTBP-T8M-240A320865E40-G13	2400 x 27	4000 ± 250 K	milky	G13	220 V	42 ± 3%	5796 ± 3%	PRE-ORDER

\* Pre-order products will be available only with MOQ from 100 pcs, lead time 6 – 10 weeks. For precise lead time, contact your Customer Service manager.

## PACKAGING INFORMATION OF RETROFIT TUBES

TUBE LENGTH, MM	TUBE WEIGHT NETO, KG	NUMBER OF TUBES IN BOX	BOX WEIGHT NETO, KG	BOX DIMENSIONS (LxHxW), MM
600	0.252	25 pcs	6.3	680x200x210
900	0.380	25 pcs	9.5	980c200x210
1200	0.480	25 pcs	12.0	1280x200x210
1500	0.572	25 pcs	14.3	1580x200x210
1800	0.720	25 pcs	18.0	1880x200x210
2400	0.940	25 pcs	24.0	2480x200x210

## ACCESSORIES

SKU	DESCRIPTION
BTB-RTF-NZL	Nozzle
BTB-RTF-ECAP	End cap
BTB-RTF-ACBL	AC cable
BTB-RTF-DCBL	DC cable



NOZZLE



AC / DC CABLE



END CAP

## ACCESSORY KIT

SKU	NOZZLES, PCS	END CAPS, PCS	FEMALE EXTENSION CABLE, pcs	CABLE TYPE   LENGTH, MM
BTB-RTF-AKIT	1	10	1	AC   500
BTB-RTF-BKIT	2	32	2	AC   500
BTB-RTF-CKIT	2	32	2	DC   500
BTB-RTF-DKIT	1	10	1	DC   800
BTB-RTF-EKIT	1	10	1	AC   800



NOZZLE x1 | END CAP x10 | CABLE x1



NOZZLE x2 | END CAP x32 | CABLE x2

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