

LED LAMP

VIVID Series



LED T8 TUBE Ballast Bypass



5-year limited warranty for DLC listed
3-year limited warranty for non-DLC***

Operating temperature range -20 °C ~ +45 °C

***Please check the "Turolight LED Limited Warranty" for details

T8BPSP4

Bypass, shatterprotect, double-ended & single-ended/ single-ended



Flicker exists in most light sources, but with varying levels. For LED Type B tubes, it all comes down to the driver. Our unique driver design ensures the minimal level of flicker, so that provides high-quality light for maximum eye comfort and performance.

T8BP4/ BP6

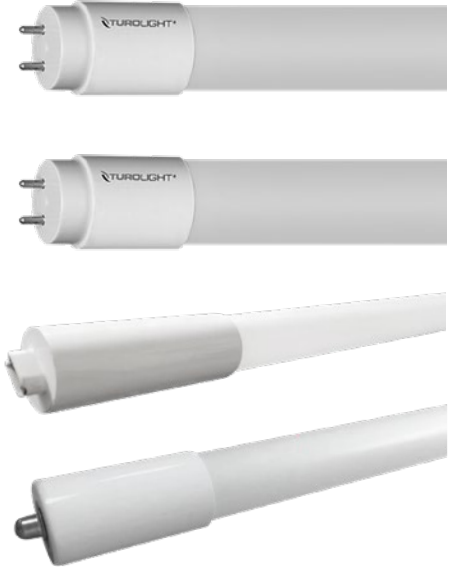
Bypass, double-ended & single-ended/ double-ended

T8BPSP4/ R17d

Bypass, shatterprotect, double-ended, base: R17d, 8ft

T8BPSP4/ Fa8

Bypass, shatterprotect, double-ended, base: Fa8, 8ft



Features & Benefits

cUL listed, DLC approved*, flicker-free* PET film, shatterprotect¹ (except T8BP)

External ballast not required, use existing lamp holders (non-shunted / shunted)

Both double-ended and single-ended/ double-ended/ single-ended installation*

Our safety features allow for installation as well as misapplication protection²

NSF/ANSI 2 certified** (except T8BP)

Beam angle 220° (T8BP), 180° (T8DFSP4)

50,000 hour life (L70), High CRI (82+), 120-277V/ 347V*

*For applicable models, see product specification below

** Need to work with NSF certified lighting fixtures

¹ Shatterprotect utilizes PET film to reduce the unexpected risk of shattering

² Contact your local Turolight representative for detail

Dimensional Drawing



Ordering Information Example: VIV-T8BPSP4/9W/30/F/DE

| Family Name | Lamp Type | Wattage | CCT | Frost | Installation |
|-------------|--|------------------------------------|------------|-----------|--|
| VIV (Vivid) | T8BPSP4 (Bypass, shatterprotect, double-ended & single-ended/ single-ended) | 9W, 10.5W, 12W, 15W, 18W, 22W, 30W | 30 (3000K) | F (Frost) | DE (Single & double-ended/ double-ended) |
| | T8BPSP4/FF (Bypass, shatterprotect, flicker free, double-ended & single-ended/ single-ended) | 10.5W | 35 (3500K) | | Blank (Single-ended) |
| | T8BPSP4/Fa8 (Bypass, shatterprotect, double-ended, base: Fa8, 8ft) | 42W | 40 (4000K) | | |
| | T8BPSP4/R17d (Bypass, shatterprotect, double-ended, base: R17d, 8ft) | 42W | 50 (5000K) | | |
| | T8BP6 (Bypass, double-ended) | 12W, 15W | | | |
| | T8BP4 (Bypass, double-ended & single-ended) | 15W | | | |

Product Specification

| Ordering Code | DLC | Model Number | Watts (W) | Voltage (V) | Initial Lumen (lm) | Base | Hour Rating | Beam Angle | CCT(K) | CRI | M.O.L. (inch) | Case QTY. |
|---|-----|------------------------------------|-----------|-------------|--------------------|------|-------------|------------|--------|-----|---------------|-----------|
| T8 Bypass ShatterProtect IV, Flicker Free, 50000hrs, Double-ended & Single-ended | | | | | | | | | | | | |
| 1752404 | - | VIV-T8BPSP4/FF/10.5W/40/F/DE (4FT) | 10.5 | 120-277 | 1700 | G13 | 50,000 | 180° | 4000 | 82 | 48 | 25 |
| T8 Bypass ShatterProtect IV, 50000hrs, Double-ended & Single-ended, DLC | | | | | | | | | | | | |
| 1752205 | - | VIV-T8BPSP4/9W/30/F/DE (2FT) | 9 | 120-277 | 1125 | G13 | 50,000 | 180° | 3000 | 82 | 24 | 8 |
| 1752301 | - | VIV-T8BPSP4/9W/35/F/DE (2FT) | 9 | 120-277 | 1125 | G13 | 50,000 | 180° | 3500 | 82 | 24 | 8 |
| 1752403 | - | VIV-T8BPSP4/9W/40/F/DE (2FT) | 9 | 120-277 | 1200 | G13 | 50,000 | 180° | 4000 | 82 | 24 | 8 |
| 1752502 | - | VIV-T8BPSP4/9W/50/F/DE (2FT) | 9 | 120-277 | 1200 | G13 | 50,000 | 180° | 5000 | 82 | 24 | 8 |
| 1752204 | - | VIV-T8BPSP4/12W/30/F/DE/3FT | 12 | 120-277 | 1450 | G13 | 50,000 | 180° | 3000 | 82 | 36 | 8 |
| 1752300 | - | VIV-T8BPSP4/12W/35/F/DE/3FT | 12 | 120-277 | 1450 | G13 | 50,000 | 180° | 3500 | 82 | 36 | 8 |
| 1752401 | - | VIV-T8BPSP4/12W/40/F/DE/3FT | 12 | 120-277 | 1500 | G13 | 50,000 | 180° | 4000 | 82 | 36 | 8 |
| 1752501 | - | VIV-T8BPSP4/12W/50/F/DE/3FT | 12 | 120-277 | 1550 | G13 | 50,000 | 180° | 5000 | 82 | 36 | 8 |
| 1762893 | Y | VIV-T8BPSP4/10.5W/40/F/DE (4FT) | 10.5 | 120-277 | 1700 | G13 | 50,000 | 180° | 4000 | 82 | 48 | 25 |
| 1762558 | Y | VIV-T8BPSP4/10.5W/50/F/DE (4FT) | 10.5 | 120-277 | 1700 | G13 | 50,000 | 180° | 5000 | 82 | 48 | 25 |
| 1762892 | - | VIV-T8BP4/15W/40/F/DE (4FT) | 15 | 120-277 | 1750 | G13 | 50,000 | 220° | 4000 | 82 | 48 | 25 |

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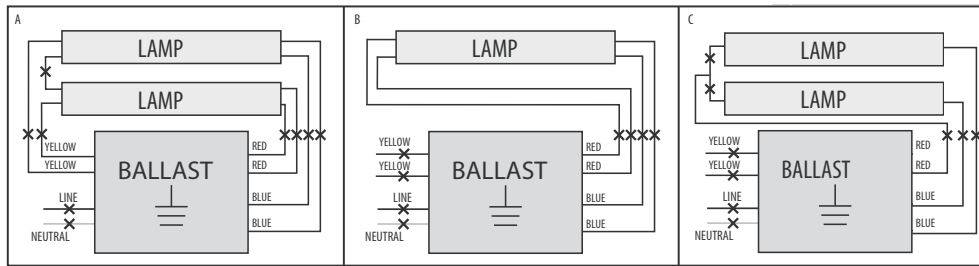
Ballast Bypass

| Ordering Code | DLC | Model Number | Watts (W) | Voltage (V) | Initial Lumen (lm) | Base | Hour Rating | Beam Angle | CCT(K) | CRI | M.O.L. (inch) | Case QTY. |
|---|-----|--|-----------|-------------|--------------------|------|-------------|------------|--------|-----|---------------|-----------|
| 1763440 | - | VIV-T8BSPSP4/18W/40/F/DE (4FT) | 18 | 120-277 | 2200 | G13 | 50,000 | 180° | 4000 | 82 | 48 | 25 |
| 1763518 | - | VIV-T8BSPSP4/18W/50/F/DE (4FT) | 18 | 120-277 | 2200 | G13 | 50,000 | 180° | 5000 | 82 | 48 | 25 |
| T8 Bypass VI 50000hrs, Double-ended, DLC | | | | | | | | | | | | |
| 1752220 | - | VIV-T8BP6/12W/30/F/DE (4FT) | 12 | 120-277 | 1700 | G13 | 50,000 | 220° | 3000 | 82 | 48 | 25 |
| 1752308 | Y | VIV-T8BP6/12W/35/F/DE (4FT) | 12 | 120-277 | 1800 | G13 | 50,000 | 220° | 3500 | 82 | 48 | 25 |
| 1752418 | Y | VIV-T8BP6/12W/40/F/DE (4FT) | 12 | 120-277 | 1800 | G13 | 50,000 | 220° | 4000 | 82 | 48 | 25 |
| 1752512 | Y | VIV-T8BP6/12W/50/F/DE (4FT) | 12 | 120-277 | 1800 | G13 | 50,000 | 220° | 5000 | 82 | 48 | 25 |
| 1752221 | - | VIV-T8BP6/15W/30/F/DE (4FT) | 15 | 120-277 | 2100 | G13 | 50,000 | 220° | 3000 | 82 | 48 | 25 |
| 1752309 | Y | VIV-T8BP6/15W/35/F/DE (4FT) | 15 | 120-277 | 2200 | G13 | 50,000 | 220° | 3500 | 82 | 48 | 25 |
| 1752419 | Y | VIV-T8BP6/15W/40/F/DE (4FT) | 15 | 120-277 | 2200 | G13 | 50,000 | 220° | 4000 | 82 | 48 | 25 |
| 1752513 | Y | VIV-T8BP6/15W/50/F/DE (4FT) | 15 | 120-277 | 2200 | G13 | 50,000 | 220° | 5000 | 82 | 48 | 25 |
| T8 Bypass ShatterProtect IV, 50000hrs, Double-ended, 347V, DLC | | | | | | | | | | | | |
| 1752206 | Y | VIV-T8BSPSP4/15W/30/F/DE/347V (4FT) | 15 | 347V | 2200 | G13 | 50,000 | 180° | 3000 | 82 | 48 | 25 |
| 1752302 | Y | VIV-T8BSPSP4/15W/35/F/DE/347V (4FT) | 15 | 347V | 2200 | G13 | 50,000 | 180° | 3500 | 82 | 48 | 25 |
| 1752400 | Y | VIV-T8BSPSP4/15W/40/F/DE/347V (4FT) | 15 | 347V | 2200 | G13 | 50,000 | 180° | 4000 | 82 | 48 | 25 |
| 1752500 | Y | VIV-T8BSPSP4/15W/50/F/DE/347V (4FT) | 15 | 347V | 2200 | G13 | 50,000 | 180° | 5000 | 82 | 48 | 25 |
| T8 Bypass ShatterProtect IV, 8FT, 50000hrs, Double-ended | | | | | | | | | | | | |
| 1755400 | Y | VIV-T8BSPSP4/Fa8/42W/40/F/DE (8FT) | 42 | 120-277 | 5400 | Fa8 | 50,000 | 180° | 4000 | 82 | 96 | 8 |
| 1755500 | Y | VIV-T8BSPSP4/Fa8/42W/50/F/DE (8FT) | 42 | 120-277 | 5500 | Fa8 | 50,000 | 180° | 5000 | 82 | 96 | 8 |
| 1755401 | - | VIV-T8BSPSP4/R17d/42W/40/F/DE (8FT) | 42 | 120-277 | 5400 | R17d | 50,000 | 180° | 4000 | 82 | 96 | 8 |
| 1755501 | - | VIV-T8BSPSP4/R17d/42W/50/F/DE (8FT) | 42 | 120-277 | 5500 | R17d | 50,000 | 180° | 5000 | 82 | 96 | 8 |
| T8 Bypass ShatterProtect IV, 8FT, 50000hrs, Double-ended, 347V | | | | | | | | | | | | |
| 1755402 | Y | VIV-T8BSPSP4/Fa8/42W/40/F/DE/347V (8FT) | 42 | 347V | 5400 | Fa8 | 50,000 | 180° | 4000 | 82 | 96 | 8 |
| 1755502 | Y | VIV-T8BSPSP4/Fa8/42W/50/F/DE/347V (8FT) | 42 | 347V | 5500 | Fa8 | 50,000 | 180° | 5000 | 82 | 96 | 8 |
| 1755403 | - | VIV-T8BSPSP4/R17d/42W/40/F/DE/347V (8FT) | 42 | 347V | 5400 | R17d | 50,000 | 180° | 4000 | 82 | 96 | 8 |
| 1755503 | - | VIV-T8BSPSP4/R17d/42W/50/F/DE/347V (8FT) | 42 | 347V | 5500 | R17d | 50,000 | 180° | 5000 | 82 | 96 | 8 |
| T8 Bypass IV, 5FT & 6FT, 50000hrs, Single-ended | | | | | | | | | | | | |
| 1764412 | - | VIV-T8BSPSP4/22W/40/F/5FT | 22 | 120-277 | 2600 | G13 | 50,000 | 180° | 4000 | 82 | 60 | 8 |
| 1764510 | - | VIV-T8BSPSP4/22W/50/F/5FT | 22 | 120-277 | 2600 | G13 | 50,000 | 220° | 5000 | 82 | 60 | 8 |
| 1764411 | - | VIV-T8BSPSP4/30W/40/F/6FT | 30 | 120-277 | 3400 | G13 | 50,000 | 220° | 4000 | 82 | 72 | 8 |
| 1764511 | - | VIV-T8BSPSP4/30W/50/F/6FT | 30 | 120-277 | 3500 | G13 | 50,000 | 220° | 5000 | 82 | 72 | 8 |

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Ballast Bypass

Installation Guide Typical Ballast Configurations



✗ Indicates Where to Cut Existing Wiring

Removing Existing Fluorescent System

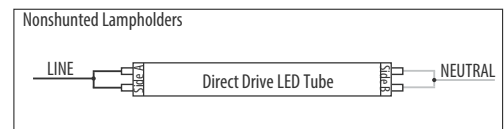
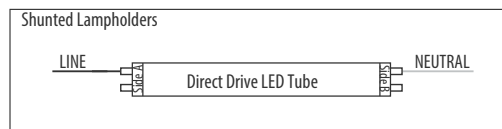
1. Disconnect power from fixture.
2. Remove fluorescent lamp(s).
3. Remove lens and wiring compartment, if applicable.
4. Cut all wires connected to the ballast as shown in Diagrams A, B, and C.
5. Identify what type of lampholders are in fixture. Double-Ended wiring installations of VIV-T8BPSP4/DE tube can be used with shunted G13 or nonshunted G13 lampholders (with instructions to externally shunt). See Figures 1 and 2.

Installing the Lamps-Double Ended

- I. Confirm that power is still disconnected from fixture.
- II. Make sure fixture is properly grounded.
- III. Follow step 1 for single lamp application or steps 2 & 3 for multiple lamp application, based on the number of lamps in the fixture:

Single Lamp

1. From AC wires, connect line (L) to Side A lampholder and neutral (N) to Side B lampholder. If only one lamp is being installed, proceed to step 4.

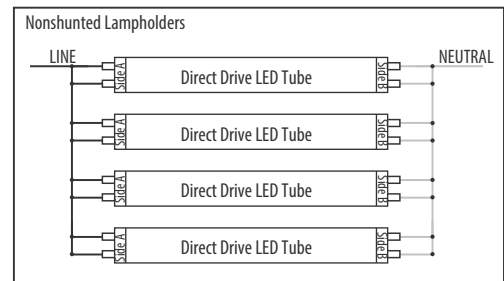
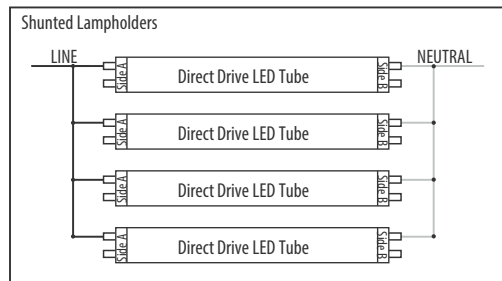


Multiple Lamps

2. Follow the steps above for single lamp connection to connect the first lamp.
3. Connect the terminals from the first lamp to the matching terminals on the lampholder of the second lamp with line and neutral wires as shown below. Continue daisy-chain connection for each additional lamp.
4. Complete all electrical connections with appropriate connectors/wire nuts as needed, per all local and national electrical codes.

NOTE: There should not be any exposed wires from sockets left unconnected.

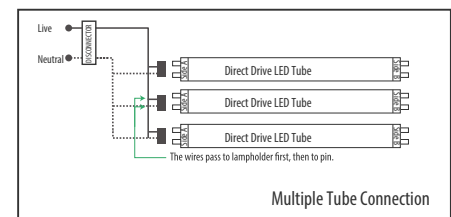
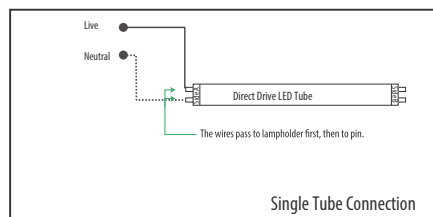
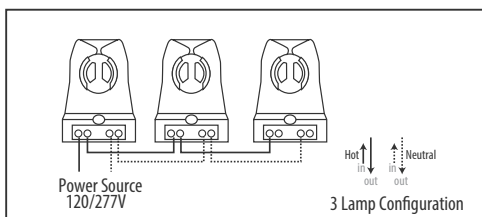
5. Replace wiring compartment cover.
6. Install all of the VIV-T8BPSP4/DE tubes. Install LED tubes so that the LEDs are pointed in the proper direction for illumination, and install any lens or diffuser as applicable.
7. Apply power to fixture and check for illumination.



Installing the Lamps-Single Ended (Non-Shunted)

1. Read all WARNING/CAUTIONS before continuing this section.
2. Ensure fixture is 120-277V.
3. Disconnect power at the source.
4. Remove lens if applicable, remove cover and fluorescent tubes.
5. Cut all wires that connect ballast. Properly discard ballast or cap off wires.
6. Replace lamp holders at power end with supplied non-shunted lamp holders.
7. Connect hot wire from power source into supplied non-shunted Lamp Holder "Hot In".
8. Connect neutral wire from power source into supplied non-shunted Lamp Holder "Neutral In".
9. If installing multiple lamps, continue reading. Otherwise skip to section 14.
10. Connect separate hot wire into "Hot Out" from primary source lamp holder and connect that wire into "Hot In" on the adjacent tube.

11. Connect separate neutral wire into "Neutral Out" from primary source lamp holder and connect that wire into "Neutral In" on the adjacent tube.
12. Continue this process for additional lamps.
13. Do not wire opposite end of lamp holder.
14. Install lamp with the Turolight logo (driver side) into the wired end.
15. Visibly affix "Modification Sticker" and reinstall housing cover and lens if applicable.
16. Return power back to source and installation is now completed.



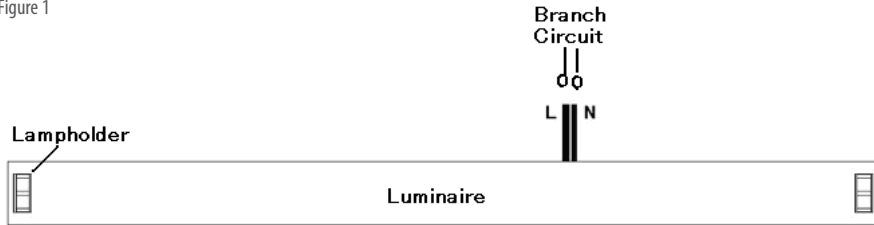
Note: The luminaire shall only mount max. 4 tubes.

LED T8 TUBE

Ballast Bypass

Installation Guide T8BPSP4 8FT

- STEP 1: Shut off power before work.
- STEP 2: Remove the existing fluorescent tube(s), open the ballast cover.
- STEP 3: Disconnect luminaire supply wirings L and N to branch circuit shown
Figure 1



- STEP 4: Original circuit as shown in Figure 2, cut lamp holder leads "1" and "2" as shown in Figure 3. Note: Ballast must be retained in place.

Figure 2

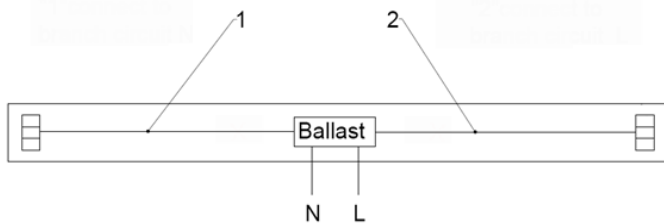
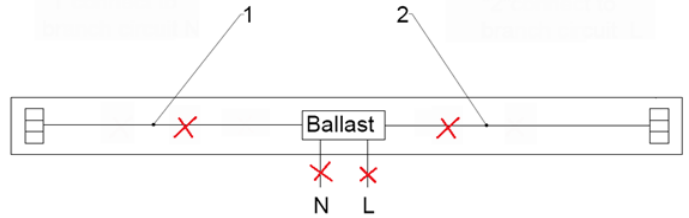
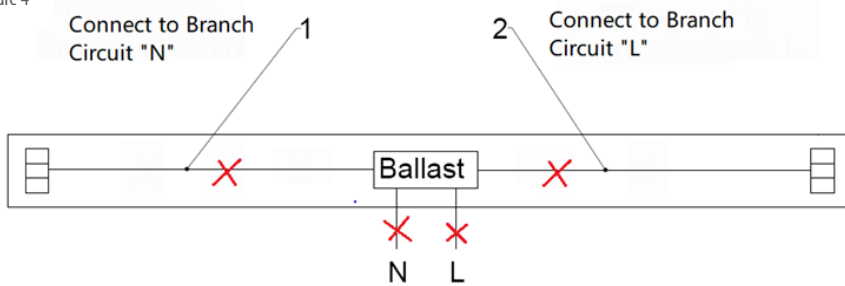


Figure 3



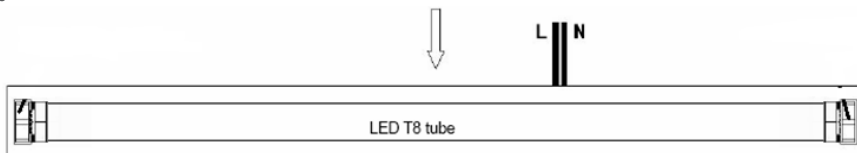
- STEP 5: Connect "Lead 1" to N and "Lead 2" to L as shown in Fig. 4.

Figure 4



- STEP 6: Attach the Luminaire Marking Label to the luminaire. Install ballast cover (if applicable) back on Luminaire as shown in Figure 5.

Figure 5



- STEP 7: Turn on the AC power source, LED Tube will light.

The wiring of two lamps is the same as above