Linear LED Magnetic Strips
# Products Specification

<table>
<thead>
<tr>
<th>LED Wattage</th>
<th>2x2</th>
<th>2x4</th>
</tr>
</thead>
<tbody>
<tr>
<td>20W</td>
<td>2,700 lm</td>
<td>5,400 lm</td>
</tr>
<tr>
<td>30W</td>
<td>4,050 lm</td>
<td>6,255 lm</td>
</tr>
<tr>
<td>40W</td>
<td>5,400 lm</td>
<td>8,040 lm</td>
</tr>
<tr>
<td>24W</td>
<td>3,216 lm</td>
<td>5,360 lm</td>
</tr>
<tr>
<td>30W</td>
<td>4,170 lm</td>
<td>6,255 lm</td>
</tr>
<tr>
<td>40W</td>
<td>5,360 lm</td>
<td>8,040 lm</td>
</tr>
<tr>
<td>45W</td>
<td>6,255 lm</td>
<td>8,100 lm</td>
</tr>
<tr>
<td>60W</td>
<td>8,040 lm</td>
<td>10,560 lm</td>
</tr>
<tr>
<td>60W</td>
<td>8,100 lm</td>
<td>8,100 lm</td>
</tr>
<tr>
<td>80W</td>
<td>10,560 lm</td>
<td>10,560 lm</td>
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</table>

<table>
<thead>
<tr>
<th>Luminous Flux*</th>
<th>2,700 lm</th>
<th>4,050 lm</th>
<th>5,400 lm</th>
<th>3,216 lm</th>
<th>4,170 lm</th>
<th>5,360 lm</th>
<th>6,255 lm</th>
<th>8,040 lm</th>
<th>8,100 lm</th>
<th>10,560 lm</th>
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<tbody>
<tr>
<td>Equivalent</td>
<td>1xF16 T8</td>
<td>2xF16 T8</td>
<td>3xF16 T12</td>
<td>1xF40 T12</td>
<td>2xF32 T8</td>
<td>2xF40 T12</td>
<td>3xF32 T8</td>
<td>3xF40 T12</td>
<td>4xF32 T8</td>
<td>4xF40 T12</td>
</tr>
<tr>
<td>Strip Qty</td>
<td>1 Strip</td>
<td>2 Strips</td>
<td>3 Strips</td>
<td>1 Strip</td>
<td>2 Strips</td>
<td>2 Strips</td>
<td>3 Strip</td>
<td>3 Strips</td>
<td>4 Strips</td>
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<tr>
<td>Troffer Efficiency</td>
<td>125 lm/watt</td>
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<tr>
<td>LED Type</td>
<td>Bridgelux</td>
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<tr>
<td>IP Rating</td>
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<tr>
<td>CRI</td>
<td>≥80</td>
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<tr>
<td>PF</td>
<td>&gt;0.9</td>
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<td></td>
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</tr>
<tr>
<td>Certificates</td>
<td>CE, Rohs, UL (driver), ETL, DLC 4.0 Premium</td>
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<td></td>
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<tr>
<td>Harmonic Distortion</td>
<td>&lt;15%</td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Qty without lens</td>
<td>35</td>
<td>22</td>
<td>15</td>
<td>50</td>
<td>30</td>
<td>30</td>
<td>20</td>
<td>20</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Qty with lens</td>
<td>25</td>
<td>15</td>
<td>10</td>
<td>40</td>
<td>20</td>
<td>20</td>
<td>13</td>
<td>13</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>
* Based on 5000K (all lumens are +/- 5% variance)

All models are ETL & DLC Approved

Standard Ordering Design: Recessed mounting for drop-in ceiling types

LED Lumen Efficiency: 150lm/watt

Troffer Lumen Efficiency: 125lm/watt

**Other option types and ordering details:**

<table>
<thead>
<tr>
<th>OPTIONAL DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Options: 4000K, 5000K (shown as “xx” in the part number)</td>
</tr>
<tr>
<td>Voltage Options: 100-277V (comes standard)</td>
</tr>
<tr>
<td>Dimming: 0-10V Dimming (comes standard)</td>
</tr>
<tr>
<td>Lens Option: No lens (comes standard), Frosted Lens</td>
</tr>
<tr>
<td>Mounting Options: Magnetic, Screws</td>
</tr>
</tbody>
</table>
Fixture Types:

<table>
<thead>
<tr>
<th>1 Tube</th>
<th>2 Tubes</th>
<th>3 Tubes</th>
<th>4 Tubes</th>
</tr>
</thead>
</table>

2’ & 4’ Lengths available (2 Tube 4’ Linear Strip can also be used to replace one 8’ Tube)

Magnetic Mounting Type:
Fixture Application:

1x2, 1x4, 1x8

2x2, 2x4
Lens Application:

Linear LED Strip w/o lens → K12 Lens

Linear LED Strip with lens → Parabolic
Dimensions:

588mm +/- 1

1198mm +/- 1
Photometric Types:

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

CO PLANE ISOLUX DIAGRAM (UNIT: 1x)
Material Design Breakout:

A: LED Strips
B: Driver
C: Magnets
D: Connectors
E: Label
F: Fastener (Optional)
Wiring Diagram:

**Electrical Connection**
1. Connect BLACK (line) driver lead to voltage supply Line position (HOT).
2. Connect driver WHITE lead to the NEUTRAL supply position.
3. Connect the GREEN ground lead to the supply ground lead.

**If using 0-10V dimming:**
4. Connect VIOLET lead to supply POSITIVE dimming lead.
5. Connect GREY lead to the supply NEGATIVE dimming lead.

**If NOT using 0-10V dimming:**
6. Ensure VIOLET and GREY 0-10V dimming leads are properly capped.
Before installing the product, please carefully read the installation instruction, inspect all the components, install according to current edition of national electronic code. There are two different replacement installation methods for existing troffer as below:

**Installation (Magnetic):**

**Step 1.** Turn off all power from circuit breaker  
**Step 2.** Open existing fixture  
**Step 3.** Remove all existing fluorescent tubes.  
**Step 4.** Remove ballast cover, cut all the wires connecting to ballast, and remove ballast  
**Step 5.** Install the LED strip kits with extrusion aluminum heat sink to the existing fixture via magnets  
**Step 6.** Replace old ballast with new LED driver via magnets and connect power with (Phase and Neutral wire)  
**Step 7.** Located ground wire and ground to fixture  
**Step 8.** Cover the LED driver with existing ballast cover  
**Step 9.** Close the fixture cover  
**Step 10.** Turn power back on
Installation (Tap Screw):
Step 1. Turn off all power from circuit breaker
Step 2. Open existing fixture
Step 3. Remove all existing fluorescent tubes
Step 4. Remove ballast cover, cut all the wires connecting to ballast, and remove ballast
Step 5. Install the LED strip kits with extrusion aluminum heat sink to the existing fixture via self-tap screws
Step 6. Replace old ballast with new LED driver via magnets and connect power with (Phase and Neutral wire)
Step 7. Located ground wire and ground to fixture
Step 8. Cover the LED driver with existing ballast cover
Step 9. Close the fixture cover
Step 10. Turn power back on
Packaging:

Up to 5pcs 4 foot strips per layer
Warning: RISK OF FIRE OR ELECTRIC SHOCK.

- Make sure power supply is OFF before installing or maintaining the product.
- Install this product only in the luminaries that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the product does NOT exceed the input rating of the luminaries.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- LED retrofit kit installation requires knowledge of luminaries’ electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not make or alter any open holes in an enclosure of wiring or electrical components during installation.
- Never perform maintenance or cleaning while fixture is energized. Disconnect power and allow fixture to cool before maintaining.

RISK OF INJURY.
- Wear safety glasses and gloves during installation and servicing. THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS.

RISK OF FIRE OR ELECTRIC SHOCK.
- LUMINAIRES WIRING, POWER SUPPLY, OR OTHER ELECTRICAL PARTS MAY BE DAMAGED WHEN DRILLING FOR INSTALLATION OF RETROFIT ASSEMBLY HARDWARE. INSPECT WIRING AND COMPONENTS FOR DAMAGE.
- SHOCK AND FIRE HAZARD, DO NOT USE WHEN ENCLOSURE IS BROKEN.
- TO AVOID POTENTIAL FIRE OR SHOCK HAZARD, DO NOT USE THIS RETROFIT KIT IN LUMINAIRES EMPLOYING SHUNTED BI-PIN LAMPHOLDERS. NOTE: SHUNTED LAMPHOLDERS ARE FOUND ONLY IN FLUORESCENT LUMINAIRES WITH INSTANT-START BALLASTS. INSTANT-START BALLASTS CAN BE IDENTIFIED BY THE WORDS “INSTANT START” OR “I.S.” MARKED ON THE BALLAST. THIS DESIGNATION MAY BE IN THE FORM OF A STATEMENT PERTAINING TO THE BALLAST ITSELF, OR MAY BE COMBINED WITH THE MARKING FOR THE LAMPS WITH WHICH THE BALLAST IS INTENDED TO BE USED, FOR
EXAMPLE F40T12/IS. FOR MORE INFORMATION, CONTACT THE LED LUMINAIRE RETROFIT KIT MANUFACTURER.

INSTALLERS SHOULD NOT DISCONNECT EXISTING WIRES FROM LAMPHOLDER TERMINALS TO MAKE NEW CONNECTIONS AT LAMPHOLDER TERMINALS. INSTEAD INSTALLERS SHOULD CUT EXISTING LAMPHOLDER LEADS AWAY FROM THE LAMPHOLDER AND MAKE NEW ELECTRICAL CONNECTIONS TO LAMPHOLDER LEAD WIRES BY EMPLOYING APPLICABLE CONNECTORS.

Installation Instructions:

- CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR.
- The product should be installed and operated by a qualified electrician or technician in accordance with local codes.
- Risk of electric shock. Ensure that main power source is off when wiring or soldering of this product.

Installation Consideration:
- This product must be at a minimum of 0.2m from ANY FLAMABLE MATERIALS.
- This product must not be installed into ceilings or walls that contain heat-insulating materials.

Maintenance:
- Make sure the power has been turned off before maintenance.
- Use a dry cloth for cleaning.
- Be careful not to use water or corrosive or abrasive chemicals for cleaning.
- When installing or replacing power supply, directly open the back cover with screwdriver and then remove the power supply.

- 5 year limited warranty

Products specifications, pictures, materials and details may change due to technology advancements. Bratic reserves the right to update any and all data without notification. Bratic T&C’s of Sale apply.