CRystal
value LED line

application
TLD’s new Crystal line of fixtures features the time-honored appearance and function of our traditional fixtures, now housing a brand new value lighting engine designed as a competitive alternative in today’s fast-moving market. Like our traditional line, the Crystal line is suitable for all kitchen and bath applications, as well as in-cabinet, cove and toe kick lighting.

configuration
The Crystal family of light fixtures is constructed with a clear, lightweight polycarbonate extrusion in TLD’s tested design, lending itself to a limitless variety of installations and uses. Fixtures contain a linear LED channel and are offered in a full range of lengths from 7 ⅜” – 46 ½”. Longer fixtures up to 96” are available upon request.

Electrical/Connectors
Crystal fixtures are 15v DC regulated, designed with integral connectors for the cleanest, easiest installation on the market. The recommended wire to use is stranded 20 AWG.

Mounting
Installation allows for a variety of mounting options, in “daisy-chain” continuous run or “home-run” multiple branch configuration, making custom layout design a breeze. Our easy-mount system employs low-tack double-sided tape on fixture backs for temporary placement while the provided self-tapping screws are secured. For surface mounting only

LEDs
Fixtures are designed with TLD’s newest select light engine, engineered for efficient thermal management and maximum longevity. Exclusive use of quality LEDs ensures consistent chromaticity for brilliance and long life.

Light output
The Crystal line is offered in high intensity task, available in your choice of 2700K lite amber, 3000K warm white or 3500K neutral white.

Power Supplies, Dimmers and Accessories
The Crystal Line is fully compatible with TLD’s entire line of regulated low voltage 15v DC power supplies, dimmers and accessories, to allow all our lines to work together in seamless combination.

Warranty
Fixtures from the new economy value Crystal line are backed with a 3-year limited warranty by TLD, an innovative leader in LED fixture technology.

light output

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Wattage</th>
<th>Fixture Length (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>070</td>
<td>2</td>
<td>7 ⅜</td>
</tr>
<tr>
<td>120</td>
<td>3</td>
<td>12 ½</td>
</tr>
<tr>
<td>170</td>
<td>4</td>
<td>16 ½</td>
</tr>
<tr>
<td>220</td>
<td>6</td>
<td>22 ⅔</td>
</tr>
<tr>
<td>280</td>
<td>7</td>
<td>28 ¼</td>
</tr>
<tr>
<td>330</td>
<td>8</td>
<td>33 ⅜</td>
</tr>
<tr>
<td>380</td>
<td>10</td>
<td>38 ¾</td>
</tr>
<tr>
<td>430</td>
<td>11</td>
<td>42 ⅜</td>
</tr>
<tr>
<td>470</td>
<td>12</td>
<td>46 ½</td>
</tr>
</tbody>
</table>

made in USA of U.S. and imported parts

The lighting division
life in LED light

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585-697-0093
Fax: 585-663-1432
thelightingdivision.com
**Installation Instructions**

When connecting any electrical component please take note of the polarity. Wiring incorrectly may cause component failure.

**Wire Preparation** - Using stranded 20AWG wire, strip 3/16 of insulation from the wire ends. Exposing an excessive amount of wire may cause shorts.

**Power Supply** - 15v DC regulated low voltage

*ALWAYS FOLLOW LOCAL ELECTRICAL CODES*

- **Hard wire** -
  - Connect “AC IN” side of the power supply to an acceptable AC power source.
  - Connect the “RED +” wire from the “DC OUT” side of the power supply to the “+” (Marked in RED) terminal of the fixture.
  - Connect the “Black -” wire from the “DC OUT” side of the power supply to the “-” (UNMARKED) terminal of the fixture.

- **Wall Plug** - Plug a suitable wattage size wall adapter into an AC powered outlet. Use supplied DC Jack adapter with wires to connect to fixture being careful to match up the (+) power path marked in RED.

**Fixture Wiring Configurations**

Fixtures utilize 15v DC regulated low voltage power supplies. They can be wired in a Daisy Chain configuration or a Home Run configuration depending on your installation needs.

**Fixture Wing Configurations**

Fixtures wings can be removed for further flexibility of installation requirements. When removing both wings an industrial adhesive is required.

**Fixture Mounting**

For optimum performance surface mount the fixture towards the front of the cabinet. Adjust position to suit your installation requirements. Use adhesive tape on the fixture to temporarily secure in place. Permanently secure with supplied self-tapping screws through the fixture wing.

**WIRING OPTIONS**

- DAISY CHAIN CONFIGURATION
- HOME RUN CONFIGURATION

**WIRE MANAGEMENT**

When wiring for light fixtures use a 3/16 drill bit for wire pathways through cabinets.

**ENCLOSURE OPTIONS**

- **Standard (Clear)**
  - Offers the widest light pattern for maximum coverage.
- **Side Shield (Black or White)**
  - Shield only reduces one side of the light pattern.
  - Width: 1.162”
  - Width with wing removed: .75”
  - Height: .5”

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<table>
<thead>
<tr>
<th>Light Engine</th>
<th>Model No.</th>
<th>Light Color</th>
<th>Enclosure Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>070</td>
<td>070</td>
<td>27</td>
<td>(Blank) Standard</td>
</tr>
<tr>
<td>120</td>
<td>120</td>
<td>2700K</td>
<td>Black Side Shield</td>
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<tr>
<td>170</td>
<td>170</td>
<td>30</td>
<td>White Side Shield</td>
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<tr>
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<td>220</td>
<td>3000K</td>
<td></td>
</tr>
<tr>
<td>280</td>
<td>280</td>
<td>Warm White</td>
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</tr>
<tr>
<td>330</td>
<td>330</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>380</td>
<td>380</td>
<td>Neutral White</td>
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</tr>
<tr>
<td>430</td>
<td>430</td>
<td>3500K</td>
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<tr>
<td>470</td>
<td>470</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Maximum End to End run (daisy chained) CBT - 16ft)