### General Warnings

The Lowel Tota-light® is a professional lighting fixture. Read these instructions and lamp manufacturer’s warnings before operating.

- Not for household use, use only for film, video, or imaging purposes.
- Do not leave fixture unattended.
- Unplug lights when unattended or when relamping.
- Make certain that lamp voltage matches power source voltage.
- Units such as this emit considerable light and heat and, if not properly used, could be dangerous.
- The Protective Screen must be used to protect people and property in the unlikely event of a defective lamp exploding, which can cause small fragments of hot glass & filament to be scattered about.

- Tota-light should never be operated with doors either closed or beyond the below shown “safety stop” position.

- Open faced lights should not be positioned extremely close to people. Ultraviolet light ray emissions can cause damage to the eyes and reddening of the skin. The likelihood of either occurring is increased with length of exposure, focus intensity and proximity. As a result, lights should be kept away from people. Bounce illumination also eliminates this problem.

- Avoid aiming the light at, or placing close to, people, delicate objects or flammable materials.
- Do not interfere with ventilation by covering the lights in any way.
- Never touch hot parts.
- Do not use near standing water.
- Lights should be operated with lamp filament horizontal.

### Technical Data

**Size closed:** 2” x 3” x 11” (5 x 7.6 x 27.9 cm)

**Weight less cable:** 1.3 lbs (595 g)

**With 16’ cable:** 2.25 lbs (1.02 kg)

**Max. wattage:** 750w at 120v, 800w at 220/240v

**Max. amperage:** 6.25 at 120v

**Beam control:** door angle provides vertical beam control

**Fits on:** studs 5/8” (1.59 cm) or smaller

**Materials:** primarily aluminum alloy

**Cable:** 16 (4.88 m) #18/3 wire

**Switch:** in-line

**U.S. Patent:** 3852582

### Lamp/Beam Data

<table>
<thead>
<tr>
<th>Lowel Code</th>
<th>Volts</th>
<th>Watts</th>
<th>°K</th>
<th>Avg Life</th>
<th>F. C. at 10° (3 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHZ</td>
<td>120</td>
<td>300</td>
<td>2900</td>
<td>2000 hr</td>
<td>14 (149) 11 (122)</td>
</tr>
<tr>
<td>FDN</td>
<td>120</td>
<td>500</td>
<td>3200</td>
<td>400 hr</td>
<td>27 (295) 22 (235)</td>
</tr>
<tr>
<td>FCZ</td>
<td>120</td>
<td>500</td>
<td>3000</td>
<td>2600 hr</td>
<td>26 (280) 19 (200)</td>
</tr>
<tr>
<td>FCM/HIR</td>
<td>120</td>
<td>650</td>
<td>3200</td>
<td>460 hr</td>
<td>60 (640) 45 (485)</td>
</tr>
<tr>
<td>EMD</td>
<td>120</td>
<td>750</td>
<td>3200</td>
<td>400 hr</td>
<td>41 (445) 34 (365)</td>
</tr>
<tr>
<td>EMF</td>
<td>220/240</td>
<td>800</td>
<td>3200</td>
<td>250 hr</td>
<td>45 (480) 34 (365)</td>
</tr>
</tbody>
</table>

### Performance

**With 120v, 750w, 3200°K, EMD lamp**

<table>
<thead>
<tr>
<th>Beam Angle</th>
<th>Max. amperage</th>
<th>Max. wattage</th>
<th>F.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10°</td>
<td>2.25</td>
<td>750</td>
<td>60</td>
</tr>
<tr>
<td>15°</td>
<td>2.8</td>
<td>800</td>
<td>60</td>
</tr>
<tr>
<td>20°</td>
<td>3.25</td>
<td>900</td>
<td>60</td>
</tr>
<tr>
<td>30°</td>
<td>4.5</td>
<td>1200</td>
<td>60</td>
</tr>
</tbody>
</table>

### Tota Operations

#### Tota Lamps Replacement Warning: Always unplug unit before relamping.

- Lamps must be operated at their rated voltage. Avoid touching “glass” with bare fingers, use tissue or handkerchief. Skin oil on lamp glass will focus heat unevenly and cause premature lamp failure.
- Insert lamp carefully, to avoid breaking porcelain ends.
- The tension springs of the Tota sockets are very stiff, remove and install lamps carefully with 2 hands to avoid damaging lamp.
- The porcelain contact of the socket may occasionally stick in its protective metal housing. The contact can be freed by pushing against it with a pencil or other suitable object.

#### Tota Lights should never be operated with doors either closed or beyond the below shown “safety stop” position.

- Tota lights are frosted except FCM/HIR.
- *G.E. Watt Miser™*, also known as FWM, has virtually same output as 1000W lamp (see manufacturers specifications).

- Due to inconsistencies in lamp (bulb) production, an individual lamp may function for less than avg. rated life. Some lamp manufacturers are of better quality than others and may provide longer life and better performance. See Lowel Catalog or www.lowel.com for complete technical data.

#### Attaching Tota Protective Screen Warning: Never operate light without supplied Protective Screen.

After opening Tota-light reflector doors, push long open edges of screen into slots between open doors of Tota-light. When storing the screen protect from bending which will effect the proper fit.

#### Tota Door Operating Positions

- Tota-light must be operated with doors open.
- Operating fixture with doors closed or partially closed will cause serious damage to the fixture and possible personal hazard.
  - A Maximum light intensity (total door angle of 90°). Door handles will help prevent doors from closing beyond the safe operating position.
  - B Maximum vertical spread.
  - C Compensates for light fall-off when illuminating a wall or cyc from below (opposite door configuration when lighting from above).
Lowel Tota-light Instructions

To Store Tota

When fixture is cool to the touch, disconnect plug on rear of Tota-light. Remove Protective Screen, spring out door handles slightly until open end can slip between double walls and close doors. Store Protective Screen “over” folded light. When storing the screen, protect from bending which will effect the proper fit.

Tota-shade

Codes: T1-21 (1)
T1-24 (set of 4)

Top/Bottom Shades:
Attach Tota-shade panel to the top or bottom reflector door with black clips facing in to lock over the door’s ribs.

Side Shades can be used only when top and bottom panels are attached. Turn each black clip 45° and attach one each to the bent rod ends of the top and bottom panels. Reflector doors must be held tightly against their 45° angle stops while doing this.

Panels become extremely hot; do not touch with bare fingers. Do not close Tota-shade when lamp is on.

Tota-frame

Code: T1-20
Untold frame, extending frame bar and insert through front accessory mounting hole until shaft appears through opposite hole. Lock with knob.

Tota/Omni Gels

Gels are secured to the frame with corner spring clips. Gels should not be doubled up. Precut, tough, fade resistant Lowel gels are available in daylight blue, frost diffusion, and neutral density. Gels can be cut into various shapes to cover part of the frame and subject. (See gel instruction sheet.)

Tota/Omni Lampak

Code: T1-34
Spring clamp attaches Tota-flags and Tota-flectors with or without Flexi-shafts, to stands, pipes, and flat surfaces. The snap-in fitting rotates to help position flags. Tota-tatch may also be used to hold and position black & white cards, cue cards, gels, etc.

Tota/Omni Shared Light Control Accessories

The following components are shared by both the Tota and Omni-lights. Their attachment may differ slightly between Tota and Omni, as described below.

Umbrellas

Photographic umbrellas convert relatively hard light sources, such as spotlights, into relatively soft sources that provide soft shadows and high-lights. Although not appropriate for every subject or mood, the quality of light can be very beautiful. There are two Umbrellas designed for use with the Tota lights, a woven, soft silver Tota-brella (T1-25) and a softer white Tota-brella (T1-26) that produces a softer light and may be used as a large diffuser. The larger Lowel DP Umbrellas (Silver D2-25, White D2-26) may also be used with the Tota-lights (see below).

Warning:
When lights with umbrellas are extended very high, or used on undersized stands or in areas of heavy “traffic”, it is advisable to add weight (such as the Lowel weight) to the base of the stand. This reduces the chance of lights falling over which could damage the umbrella, the lamp, and possibly cause personal injury.

Using Umbrellas with Tota

Insert umbrella through hole until shaft appears through opposite hole. Lock with knob. When the umbrella is in place, the gel frame cannot be used. Tota-shades and gels should be used for daylight correction. The use of clear instead of frosted lamps will increase the light output by approximately 15%. When using the DP Umbrella, the tilt tension of the light may have to be increased. This can be done easily by tightening the nut located on the stand fitting with a 7/16” wrench. Do not over tighten!

Tota/tatch

Code: T1-34
Spring clamp attaches Tota-flags and Tota-flectors with or without Flexi-shafts, to stands, pipes, and flat surfaces. The snap-in fitting rotates to help position flags. Tota-tatch may also be used to hold and position black & white cards, cue cards, gels, etc.

Lampaks

Lampaks provide transparent, semi rigid foam filled storage for spare lamps. Always remove lamps from fixture & store in Lampak if the kit will be travelling for an extended period (example: flights or cargo).
Never put hot lamps in Lampak.

Tota Lampak

Code: T1-61
Stores 6 Tota lamps in foam filled plastic case. (lamps not included)

Tota/Omni Lampak

Code: TO-61
Stores 2 Tota & 4 Omni lamps in foam filled plastic case. (lamps not included)
The following components are shared by both the Tota and Omni-lights.

**Omni-stand**

Code: O1-33  
Weight: 2.6 lbs (1.2 kg)  
Size: (2.74 m), 27” (69 cm) folded  
Sturdy and lightweight, extends to 9”. Collar clamping, standard 5/8” (1.59 cm) stud.

**Uni TO Stand**

Code: UN-55  
Weight: 2.5 lbs (1.2 kg)  
Size: 21.5” (54.6 cm) folded  
Maximum height: 7’11” (2.4 m)  
Base diameter: 43”  
New stand, based on design combination of Uni-stand & Omni-stand. More stable than Uni-stand, more compact than Omni-stand.

**Tota-clamp**

Code: T1-30  
Tota-clamp supports most lights that fit standard 5/8” studs.  
Tota-clamp can be attached to pipes, stands or flat surfaces.  
When clamping on furniture, use thin wood or cardboard to avoid marring. To rotate stud, turn wing nut counterclockwise several turns. The stud can be locked in any of four positions; two for the 5/8” stud and two for the end with the 1/4-20 tapped hole. A 1/4-20 screw can be used to lock on some microphone yokes and various accessories. Tota-clamp has two snap-in fittings for Flexi-shafts.

**Tota-mount**

Code: T1-32  
Tota-mount supports small fixtures atop doors and partitions. Doors can be open or closed. The light can be inside a room, since swinging arm extends past most door jams. Tota-mount can be flipped over and nailed to studio set walls or Gaffer-taped to windows or tile, wood, metal and other wall surfaces. Tota-mount should not be used with lights heavier than 3 lbs. (1.33 kg).

**Tota-daptor**

Code: T1-35  
Steps up undersize stand tops to standard 5/8”. It also acts as a short extension. It has two snap-in fittings for Flexi-shafts.  
Two Tota-lights can be locked together by turning one of the stand fittings “backwards” and locking it onto the stand fitting extension. For each additional two Tota, a Tota-daptor must be added. The stacked lights can then be mounted on a stand or hung from a suitable clamp. Care must be exercised to provide sufficient ventilation and prevent cables from contacting lights.

**Mounting Tota-mount with Gaffer Tape**

Use 12” of Gaffer-tape on each bar of Tota-mount or side of Vipod and burnish down with a coin. Avoid wallpaper, soft composition board or flaking paint. Never attach to the ceiling with tape. Use original Lowel Gaffer-tape, as many substitutes leave adhesive residue or lack sufficient strength. When properly attached, Tota-mount or Vipod will support the light for days. However, on dirty or poorly bonded surfaces, or with improper or poorly applied tape, there is the danger of the mount falling down and causing serious damage. Check adhesion periodically. Prevent direct light from overheating tape. Remove tape when cool, by peeling back diagonally. Tota-mount should never be used with heavier lights.

**Cables & Connectors**

16’ Tota/Omni Cable

Code: T1-80  
Standard #18/3, with switch & Edison wall plug.

16’ (5 m) Tota Eurocord

Code: T1-801  
#18/3 (7.5 mm/3) with double pole switch and male CEE-7 plug.

16’ (5 m) Tota UK Cord

Code: T1-802  
#18/3 (7.5 mm/3) with double pole switch and male fused BS 1363A plug.

10’ Unswitched Cable

Code: T1-808  
For portable stage lighting use. “Hard service” #18/3 cable.

**Tota Adjustments**

Tota-light has a constant-tension tilt (torque) which can be adjusted, if needed, by tightening the nut located on the stand fitting with a 7/16” wrench.

Reflector door tension can be adjusted by tightening the screws located on the rear of the reflector door with a screwdriver.

**Space-clamp**

Grip  
Interlink
**Tota for the New Pro**

The wide angle coverage area of the broad throw Tota-light makes it the ideal choice for lighting a large area evenly.

The Tota-light is an open face (lensless) fixture. Therefore its capable of throwing sharp shadows. Tota’s versatility are easily extended by addition of light control accessories. For example, adding a Tota-brella instantly transforms the light into a soft Key (main) light or Fill (secondary) light.

The Tota is a tungsten-halogen source. Its color temperature will be in the 3000–3200K° range, depending on lamp choice. To use Tota in locations where its output will mix with daylight (5600–6500K°), its color temperature can be converted by adding various strengths of daylight blue gels to the Tota-frame for more realistic white-balancing in video or film.

Tota is one half of the Tota/Omni lighting system. As a starting point, when using them together in simple setups, use Omni-light A for focusing on your subject, and a second Omni B for fill if desired. Use a Tota-light C to illuminate your background evenly. Position of the lights and distance to the subject can be varied for different creative results.

Add diffusion gel in a Tota-frame, or attach an umbrella to create a softer source.

For soft Key & Fill in a classic interview setup, use 2 Tota’s with reflective umbrellas A & B from 3/4 angles. Varying the distance of either light from the subject will vary the contrast ratio between Key & Fill.

Setup #1

To simply raise the ambient level of light in a room, point the Tota-light at a white wall or ceiling (from a safe distance of several feet or more). Position the light so it won’t be in your shot.

Setup #2

For archival copy work (Example: a painting hung on a wall) start by placing Totas A & B on stands at 45° angles to the wall, on both sides of the camera. Vary the angle to the wall/camera to reduce unwanted reflection. Large subjects may require 2 Totas at different heights on each side.

Setup #3

In classic interview setup, use 1 Tota A with diffusion and Tota-frame as the key light, and another Tota B with reflective umbrella as the softer fill light. Vary position & angle to camera for desired creative effect. Note: the output of the Tota key will be harder/sharper than the Tota fill because the umbrella addition creates a softer source.

Option: add a third Tota C to evenly light the background.

**Example Setups using Tota-light**

**Setup #1**

To simply raise the ambient level of light in a room, point the Tota-light at a white wall or ceiling (from a safe distance of several feet or more). Position the light so it won’t be in your shot.

**Setup #2**

For archival copy work (Example: a painting hung on a wall) start by placing Totas A & B on stands at 45° angles to the wall, on both sides of the camera. Vary the angle to the wall/camera to reduce unwanted reflection. Large subjects may require 2 Totas at different heights on each side.

**Setup #3**

In classic interview setup, use 1 Tota A with diffusion and Tota-frame as the key light, and another Tota B with reflective umbrella as the softer fill light. Vary position & angle to camera for desired creative effect. Note: the output of the Tota key will be harder/sharper than the Tota fill because the umbrella addition creates a softer source.

Option: add a third Tota C to evenly light the background.

**Problems, info, repairs, etc.**

Lowel equipment and kits are sold through authorized Lowel Dealers and, in some countries, Authorized Lowel Distributors. Repairs, problems, suggestions, and requests for brochures, instructions, parts lists may be handled by your authorized Lowel Dealer (Distributor) or directly with Lowel. Electrical repairs should be made only by Lowel or a qualified electrician.