SOLID STATE AREA LIGHTING

TSUNAMI SERIES-LED

SPECIFICATIONS

HOUSING
Heavy cast low copper aluminum assembly (A356 alloy, <.2% copper) minimum wall thickness .188" with integral cooling ribs surrounding the electrical compartment. The optical and electrical compartments are integrated with the support arm to create one assembly. Minimum wall thickness is ¼". Cast and hinged driver compartment cover is integrated with wiring compartment cover.

LED OPTICAL MODULE
Low copper A356 alloy (<.2% copper) cast aluminum housing. Integrated clear tempered glass lens sealed with a continuous silicone gasket protects emitters (LED’s) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. Module is sealed to meet an IP67 rating. Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord.

LED DRIVER
Drivers are UL and cUL recognized mounted on a single plate and factory prewired with quick-disconnect plugs. Constant current driver is electronic and has a power factor of >0.90 and a minimum operating temperature of -40°F. Drivers accept an input of 120-277V, 50/60Hz. (0 - 10V dimmable driver is standard. Drivers accept an input of 120-277V, 50/60Hz or 347-480V, 50/60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

LED EMITTERS
High output LED’s are utilized with drive currents ranging from 350mA to 1050mA. 70CRI Minimum. LED’s are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

AMBER LED’s
PCA (Phosphor Converted Amber) LED’s utilize phosphors to create color output similar to LPS lamps and have a slight output in the blue spectral bandwidth. TRA (True Amber) LED’s utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

FINISH
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step iron phosphate pretreatment for protection and paint adhesion, 400°F bake for maximum hardness and durability. Texture finish is standard.
### Specifications

#### Pole Drilling Template

- **C.L. (151mm)**
- **2.75” (70mm) for TSUM**
- **2.50” (64mm) for TSU**
- **Wireway 563” DIA. (14mm)**
- **406” DIA. (10mm) 3 Holes**

#### Wall Mount

Cast aluminum wall bracket assembly provided with built in gasketed wire access for fixture/supply wire connection.

#### VLED® Modules

- **TSU E.P.A. = 1.53**
  - Available in: 120, 100, 80, & 64 LED Module
- **TSUM E.P.A. = .96**
  - Available in: 64, & 48 LED Module

### Wall Plate

- **7” SQ. (178mm)**
- **5.50” (140mm)**
- **5.00” Dia. (14mm) 4 Holes**

### Spec/Order Example:

TSU-LED/VLED-IV/80LEDWW240/RAL-9005-S/TPR

### Spec/Ordering Information

#### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>Optics</th>
<th>LED Mode</th>
<th>Voltage</th>
<th>Mounting</th>
<th>Finish</th>
<th>Options</th>
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<tbody>
<tr>
<td>TSU</td>
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</table>

- **# of LED’s**
- **Drive Current**
- **Color**
- **Voltage**
- **Arm Mount**
- **Standard Textured Finish**

### Notes:

1. Not available in 700mA
2. Not for use with TRA LED’s
3. Narrow band amber have no definable Cct Equivalent
4. Available in 350mA & 525mA drive currents only

### Options:

- House side shielded reflector/prisms: HS-VLED
- High/low dimming for hardwired switching or non-integrated motion sensor: ..., HLSW
- Photo cell + Voltage (example: PC-120V): ..., PC+V
- Twist lock photocell receptacle only: ..., TPR
- 7-pin twist lock photocell receptacle only: ..., TPR7
- Single fuse (120V, 277V): ..., SF
- Double fuse (208V, 240V): ..., DF
- Step dim motion sensor (programmed 50/100): ..., MS-F211
- Remote motion sensor configurator: ..., MS-FC10

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**U.S. Architectural Lighting**

660 West Avenue O, Palmdale, CA 93551
Phone (856) 233-3000 Fax (661) 233-3001
www.usaltg.com
<table>
<thead>
<tr>
<th>LED COUNT</th>
<th>SOURCE TYPE</th>
<th>SOURCE</th>
<th>INITIAL LUMENS - 4000K</th>
<th>INITIAL LUMENS - 3000K</th>
<th>INITIAL LUMENS - 5000K</th>
<th>L70 GREATER THAN (HR)</th>
<th>STARTING TEMP.</th>
<th>SYSTEM WATTS</th>
<th>Volts</th>
<th>MAX INPUT AMPS</th>
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<tbody>
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<td>48 LED</td>
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<td>5.152 - 5.755</td>
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**NOTES:**
1. Max Input Amps is the highest of starting, operating, or open circuit currents.
2. Lumen values for LED Modules vary according to the distribution type.
3. System Watts includes the source watts and all driver components.
4. Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use 10KV - 20KV surge suppressors.
5. L70(9K) – TM-21 6x rule applied.

**WARNING:** All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.