

## LED Area Lighting Luminaire SPECIFICATION (3000K@480V)



## ORDER GUIDE

| Group   | TL | UUU | VV | WW | XX | Y | ZZ |
|---------|----|-----|----|----|----|---|----|
| Example | AL | 090 | 5M | WW | UH | D | BZ |

| Group | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RL    | Represents LED <b>Area Lighting</b> ;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| UUU   | Represents input power, which can be 090, 160, 245, or 275, e.g., 090= <b>90 W</b> ;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| VV    | Represents lens type, distinguished by different models, which can be 2M, 3M, 4M, 4S, 5M, 5S, or others.<br><br><div> <div>Type II (Full Cutoff)</div> <div>2S (Short);</div> <div><b>2M (Medium)*;</b></div> <div>2L (Long);</div> </div> <div> <div>Type III (Full Cutoff)</div> <div>3S (Short);</div> <div><b>3M (Medium)*;</b></div> <div>3L (Long);</div> </div> <div> <div>Type IV (Full Cutoff)</div> <div>4S (Short);</div> <div><b>4M (Medium)*;</b></div> <div>4L (Long);</div> </div> <div> <div>Type VS (Full Cutoff)</div> <div>5S (Short);</div> <div><b>5M (Medium)*;</b></div> <div>5L (Long).</div> </div> |
| WW    | Represents the nominal Correlated Color Temperature, which can be<br><br><div> <div>CW</div> <div>Cool White</div> <div>5000 K (± 300 K);</div> </div> <div> <div>NW</div> <div>Neutral White</div> <div>4000 K (± 300 K);</div> </div> <div> <div><b>WW</b></div> <div><b>Warm White</b></div> <div><b>3000 K (± 300 K)*+;</b></div> </div>                                                                                                                                                                                                                                                                                 |
| XX    | Represents the input voltage: UL (120-277V), VL (120-240/277V), or <b>UH (480V)*</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Y     | Represents the dimming function, D (DALI)*, or P (Photocell).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ZZ    | Represents the luminaire body color, which can be BK, BZ, GN, GY or WT<br><br><div> <div>BK</div> <div>Black</div> <div>(RAL 9017);</div> </div> <div> <div><b>BZ</b></div> <div><b>Bronze</b></div> <div><b>(RAL 8019)*;</b></div> </div> <div> <div>GN</div> <div>Green</div> <div>(RAL 6005);</div> </div> <div> <div>GY</div> <div>Gray</div> <div>(RAL 7038);</div> </div> <div> <div>WT</div> <div>White</div> <div>(RAL 9010).</div> </div>                                                                                                                                                                           |

\* Featured products.

+ Warm-toned LED light sources (3000K or lower) must be selected to meet the International Dark-Sky Association dark sky requirements.

## CERTIFICATIONS

|                                                        |                                                     |             |
|--------------------------------------------------------|-----------------------------------------------------|-------------|
| SAFETY                                                 | Luminaires [UL 1598:2021 Ed.5]                      | Certified   |
| SAFETY                                                 | Luminaires [CSA C22.2 No. 250.0:2021 Ed.5]          | Certified   |
| FCC                                                    | FCC Part 15 Subpart B; ANSI C63.4a-2017             | Certified   |
| DIELECTRIC WITHSTAND AND ELECTRICAL TRANSIENT IMMUNITY | C136.2-2015: Clause 6, Clause 7, 7.1, 7.2, 7.3, 7.4 | Certified   |
| INGRESS PROTECTION                                     | Ingress protection                                  | IP65        |
| THD                                                    | Max. Total Harmonic Distortion (%)                  | 20          |
| IMPACT TEST                                            | Resistance to external mechanical impact test       | IK10        |
| SALINE MIST TEST                                       | Salt spray test to ISO 9227                         | 1,000 hours |
| RoHS COMPLIANCE                                        | European Directive 2011/65/EC                       | Certified   |

**SPECIFICATION**
**AL-090-VV-WW-UH-D-BZ (One-Module)**

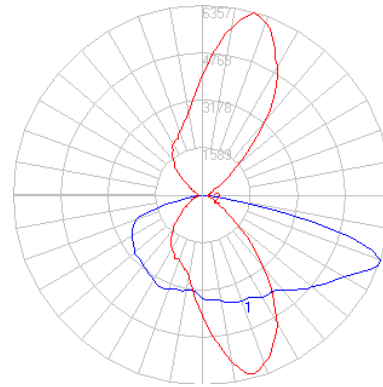
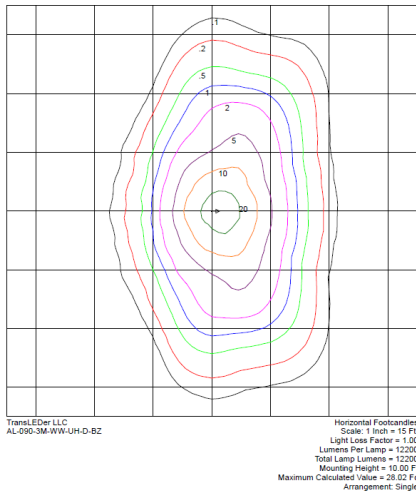
|                                |                                                                                                                                                                              |                      |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>VOLTAGE</b>                 | Nominal luminaire input voltage range                                                                                                                                        | 480 V                |
| <b>INPUT POWER</b>             | Nominal luminaire input power                                                                                                                                                | 90.0 W ‡             |
| <b>LUMINAIRE OUTPUT</b>        | Nominal luminaire luminous flux output                                                                                                                                       | 12200 lm ‡           |
| <b>EFFICACY</b>                | Nominal luminaire efficacy                                                                                                                                                   | 135.6 lm/W ‡         |
| <b>POWER FACTOR</b>            | Min. power factor                                                                                                                                                            | 0.99‡                |
| <b>LUMEN MAINTENANCE</b>       | Min. % of the initial output at 100,000 hours of operation                                                                                                                   | L95.3                |
| • L90                          | Estimated time reaching 90% of the initial luminous flux                                                                                                                     | > 102,000 hours      |
| • L80                          | Estimated time reaching 80% of the initial luminous flux                                                                                                                     | > 102,000 hours      |
| • L70                          | Estimated time reaching 70% of the initial luminous flux                                                                                                                     | > 102,000 hours      |
| <b>LMF</b>                     | Luminaire maintenance factor used for simulation                                                                                                                             | 0.80                 |
| <b>CHROMATICITY SHIFT</b>      | LED chromaticity shift at 7,000 hours of operation                                                                                                                           | 0.0015 Δu'v'         |
| <b>NOMINAL CCT</b>             | Nominal correlated color temperature                                                                                                                                         | 3000 K               |
| <b>CRI</b>                     | Color Rendering Index                                                                                                                                                        | > 70                 |
| <b>WEIGHT</b>                  | Max. luminaire weight                                                                                                                                                        | 16.3 lbs.            |
| <b>DIMENSION</b>               | L x W x H                                                                                                                                                                    | 22.8" x 11.4" x 5.6" |
| <b>SAIL AREA</b>               | Max. effective sail area                                                                                                                                                     | 0.62 ft <sup>2</sup> |
| <b>TERMINAL BLOCK GAUGE</b>    | 6-Way Screw Down Terminal Blocks Wire Gauges                                                                                                                                 | #14 AWG - #6 AWG     |
| <b>PCR</b>                     | Photoelectric Control Receptacle                                                                                                                                             | Toolless Rotatable   |
| <b>OPTICAL DISTRIBUTION</b>    | <input type="checkbox"/> Type II <input checked="" type="checkbox"/> Type III <input checked="" type="checkbox"/> Type IV <input checked="" type="checkbox"/> Type V         |                      |
| <b>MOUNTING SLIP FITTER</b>    | <input checked="" type="checkbox"/> Top-entry <input checked="" type="checkbox"/> Side-entry <input checked="" type="checkbox"/> Integral tilt (-10° to +10°)                |                      |
|                                | Nominal Pole Size (NPS)                                                                                                                                                      | 1.25"/2" NPS         |
| <b>VIBRATION</b>               | ANSI C136.31 <input type="checkbox"/> Level 1 (normal) <input checked="" type="checkbox"/> Level 2 (bridge/overpass)                                                         |                      |
| <b>THERMAL ENVIRONMENT</b>     | Typical min. ambient temperature during operation                                                                                                                            | -40 °C (-40 °F)      |
|                                | Typical max. ambient temperature during operation                                                                                                                            | +40 °C (+104 °F)     |
| <b>SURGE PROTECTION DEVICE</b> | ANSI C136.2 <input type="checkbox"/> Basic (6kV/3kA) <input checked="" type="checkbox"/> Enhanced (10kV/5kA) <input type="checkbox"/> Elevated, (20kV/10kA)                  |                      |
| <b>CONTROL INTERFACE</b>       | <input type="checkbox"/> None <input type="checkbox"/> ANSI C136.10 3-pin <input type="checkbox"/> ANSI C136.41 5-pin <input checked="" type="checkbox"/> ANSI C136.41 7-pin |                      |
| <b>LED DRIVER</b>              | <input type="checkbox"/> Not Dimmable <input type="checkbox"/> Dimmable, 0-10V (IEC 60929) <input checked="" type="checkbox"/> Dimmable DALI-2, D4i, NFC                     |                      |

‡ Values shown are subject to ±5% tolerance.

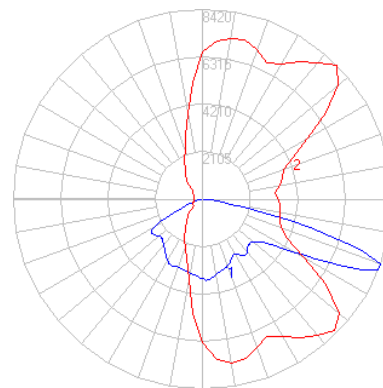
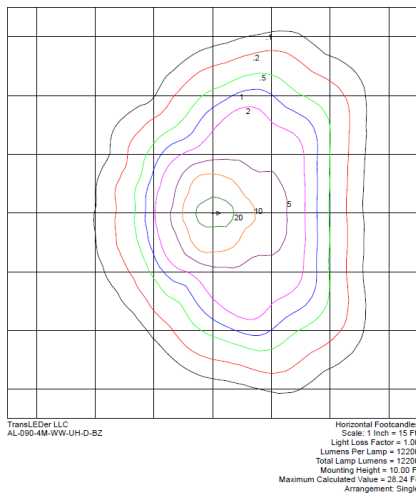


PHOTOMETRY

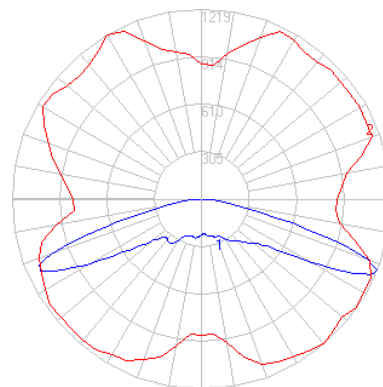
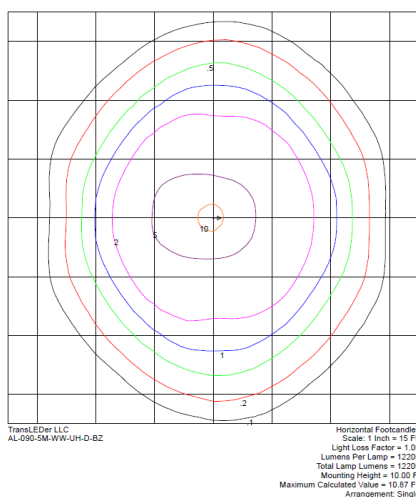
Type III Medium Full Cutoff



Type IV Medium Full Cutoff

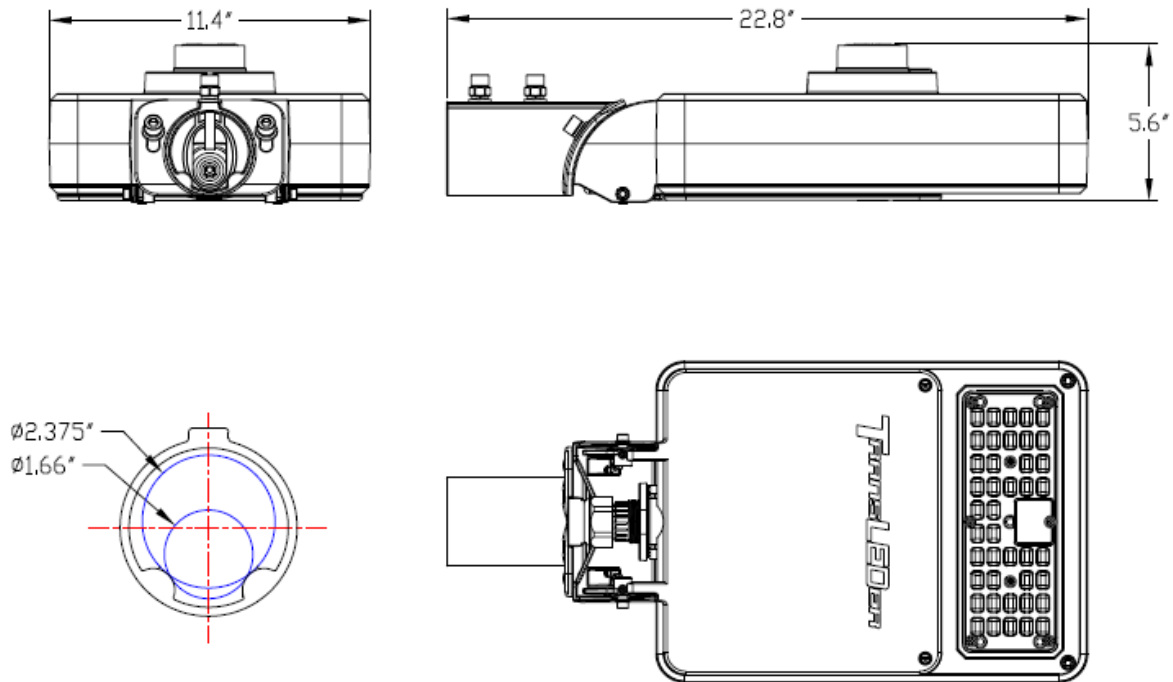


Type V Medium Full Cutoff



## DIMENSIONS

### 1-Module Model



## FEATURES

