LIGHTPLANE 3.5 RECESSED
SPECIFICATION GUIDE
LIGHTPLANE 3.5 – Recessed

Specification and Ordering Information:

1. Style:
   - LP3.5RT - Trim with Flush Lens (LP3.5RT)
   - **LP3.5R - Trimless with Flush Lens (LP3.5R)
   - LP3.5RTRL - Trim with Regressed Lens (LP3.5RTRL)
   - **LP3.5RPF - Perimeter Mount Flush (LP3.5RPF)
   *Available with Trim Only
   **Plaster surface only

2. Mounting:
   - DRY - Drywall (DRY)
   - **TGRID Exposed T-Grid - 15/16" (TGRID)
   - *HDI - Hunter Douglas® Integrated - Consult Factory (HDI)
   - *ATZ-SLOT - Armstrong® Techzone - see chart on next page
   - *ATZ-TGRID Armstrong® Techzone - see chart on next page
   - SEAMLESS SLOT - 15/16th Tegular, hidden flange (SEAMLESS SLOT)
   - **SEAMLESS TGRID - 15/16th Tegular hidden flange (SEAMLESS TGRID)
   - SEAMLESS WOOD/METAL - Wood/Metal, No exposed Trim
   *Available with Trim Only

3. Overall Run Length:
   - Individual (2’, 3’, 4’, 5’, 6’, 7’, 8’)
   - Continuous (Enter total run length, i.e. 20’)

4. Linear Lamping:
   - N/A - Open channel for downlighting only (N/A)
   - 2700K 3000K 3500K 4000K
   - HP900 - 900 Lm/ft High Performance LED LF (HP900 - Old HP7)
   - HP1200 - 1200 Lm/ft High Performance LED 9W/LF (HP1200 - Old HP10)
   - HP1500 - 1500 Lm/ft High Performance LED 14.5W/LF (HP1500 - Old HP14)
   - SP900 - 900 Lm/ft Standard Performance LED 9W/LF (SP900)
   - SP1000 - 1000 Lm/ft Tunable White 2700K to 5700K LED (SP1000)
   - CV450 - Decorative, 440 Lm/ft, Constant Voltage LED 6.5W/LF (CV450)
   - CV9000 - Decorative, 880 Lm/ft, Constant Voltage LED 13W/LF (CV900)
   - CV900 - Decorative, 880 Lm/ft, Constant Voltage LED 13W/LF (CV900)
   - RGB - LED Color Changing 5W/LF - Consult Factory for Control Interface Options (RGB)
   - FR50 - Fluorescent Standard Output, 1-Lamp Profile 15 (FR50)
   - FRHO - Fluorescent High Output, 1-Lamp Profile 15 (FRHO)
   - FSSO - Fluorescent Staggered 1-Lamp Profile 5, Standard Output (FSSO)
   - FSHO - Fluorescent Staggered 1-Lamp Profile 5, High Output (FSHO)
   - FRSO/2X - Fluorescent Standard 15, 2-Lamp Profile, non-stagger (FRSO/2X)
   - SFSSO/2X - Fluorescent Standard 15, 2-Lamp Profile, stagger (SFSSO/2X)
   - **LXHO - Fluorescent 15 Tegular - Standard Output (LXHO)
   - **LX - Fluorescent T5 Seamlessline - Standard Output (LX)
   - **LXHO - Fluorescent T5 Seamlessline - High Output (LXHO)
   - FR18 - Fluorescent T8 (FR18)
   - FS18 - Fluorescent Staggered 1-Lamp Profile 18, (FS18)
   - FR18/2X - Fluorescent T8, 2-Lamp Profile, non-stagger (FR18/2X)
   - **FS18/2X - Fluorescent T8, 2-Lamp Profile, stagger (FS18/2X)

   **LX - Fluorescent T5 Seamlessline - Standard Output (LX)
   **LXHO - Fluorescent T5 Seamlessline - High Output (LXHO)
   **FR18 - Fluorescent T8 (FR18)
   **FS18 - Fluorescent Staggered 1-Lamp Profile 18, (FS18)
   **FR18/2X - Fluorescent T8, 2-Lamp Profile, non-stagger (FR18/2X)
   **FS18/2X - Fluorescent T8, 2-Lamp Profile, stagger (FS18/2X)

   Raw lumens and system watts information when both warm white and cool white LEDs are at 100%. DMX drivers are recommended to halve driver numbers.

   *See Option 1A

   **For Staggered lighting, it is recommended to use the EXT lens for maximum diffusion properties - HIGH OUTPUT STAGGER NOT RECOMMENDED due to brightness at overlap.

   Raw lumens and system watts (with driver loss included for all other LED5)

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5. Linear Driver/Ballast Specification:
- *LED - LED Power Supply, non-dim (LED)
- *0-10V - LED Power Supply with 0-10V dimming (0-10V)
- 10% Standard Dim Option
- *0-10V Dimming Option
- 0% Premium Option
- *LED-DALI - LED Power Supply with DALI dimming 0%-100% (LED-DALI)
- *LED-DMX - LED Power Supply with DMX dimming 0%-100% (LED-DMX)
- *RGB-DMX - RGB with DMX Interface module 0%-100% DMX (RGB-DMX)
- *HILUME-A2 - Lutron Hi-lume® A LTE Series LED line voltage 2-wire control (120v only) 1%-100% (HILUME-A2)
- *HILUME-A3 - Lutron Hi-lume® A LED EcoSystem® or 3-wire control 1%-100% (HILUME-A3)
- STD - Standard Electronic, non-dim <10%THD (STD)
- FG0/10V - Fluorescent Dimming 0-10V (DIM)
- HILUME - Lutron Hi-lume fluorescent dim (HILUME)
- BALLASTAR - Fluorescent Step-Down (BALLASTAR)
- *OPTION FOR LINEAR LED ONLY
  Please consult ballast manufacturer for lamp/ballast compatibility.

6. Linear Lens Options:
- *WD - Frosted lens - Limited Availability with HP Series and SP900 LEDs Only. LEDs might be visible when dimmed (WD)
- EXT - Extra Diffuse Lens (EXT)
- BLANKS - Fill All Blanks with Filler Panels (BLANKS)
- LV - Bladed Louver (LV)
  *Not recommended with fluorescent lamps due to lamp socket shadowing.

7. Downlight Option (leave blank if none):
- MR16 - 50 W MR16 Halogen (MR16)
- LED MR16 - Retrofit LED MR16 GU5.3 Base, Transformer; Lamp transformer and compatibility shall be checked by others. ALW will provide electronic transformer in ormation on submittal drawing (LED MR16)
- GX1020- 20W CMH-MR16 GX10 Base (GX1020)
- GX1039- 39W CMH-MR16 GX10 Base (GX1039)
- CZEN800- LED COB Downlight, 9.5W, 790LM, 40deg beam, 3K CCT (CZEN800- Old CZEN7)
- *CZEN1000- LED COB Downlight, 12.7W 1040LM, 40deg beam, 3K CCT (CZEN1000- Old CZEN10)
  *No adjustment on perpendicular axis
  Raw lumen and system watts (with driver loss included)

8. LED Downlight Driver Specification:
- *HILUME-A2 - Lutron Hi-lume® A LTE Series LED line voltage 2-wire control 120v only 1%-100% (HILUME-A2)
- HILUME-A3 - Lutron Hi-lume® A LED EcoSystem® or 3-wire control 1%-100% (HILUME-A3)
- 0-10V - LED Power Supply with 0-10V dimming (0-10V)
  10% Standard Dim Option
  1% Dimming Option
  0% Premium Option
- LED-DALI - LED Power Supply with DALI dimming 0%-100% (LED-DALI)
- LED-DMX - LED Power Supply with DMX dimming 0%-100% (LED-DMX)
  *120V only. Consult dimming control manufacturer for compatibility with Lutron Hi-lume A LTE forward phase control LED driver

9. Downlight Quantity:
- Enter total quantity downlights per run length
  Leave blank if none
  Outer Dimensions of Each Downlight is 7.25"

10. Downlight Accessory options (Leave blank if no downlights/linear only):
- LSS - Linear Spread Lens (LSS)
- SOL - Solite Lens (SOL)
- SNT - Snoot (SNT)
- HEX - Hexcell Louver (HEX)

11. Finish:
- *AL - Natural "Ultimatte" aluminum
- BK - Black powdercoat
- WH - White powdercoat
- RAL - Specify RAL # of powdercoat of your choice
  *AL is standard on all Lightplane 3.5 product

12. Voltage:
- *120 - 120 volt (120)
- **277 - 277 volt (277)
- UNV - Universal voltage (UNV)
  347 - 347 volt (not available in dimming) (347)
  *For LED MR16 Downlight dimming, consult LED Retrofit Lamp manufacturer for voltage dimmer compatibility
  **Dimming not available in LEDMR16. However the CZEN800 or CZEN1000 can be dimmed on 277V
  if specified with a programmable driver such as EldoLED or Lutron Hilume A series.

13. Circuit:
- *EMC - Emergency Circuit (EMC)
- *EMBP - Emergency Battery Pack (EMBP)
  *Consult factory for available options

14. Additional Options (Leave blank if None):
- *OS - Occupancy Sensor (OS)
- PH - Photocell - Consult Factory (PH)
- MC - XX - MITERED CORNERS (MC-XX, XX= QTY OF CORNERS)
  SPECIFY QTY OF CORNERS (i.e. 4x4 square = 16ft with 4 mitered corners)

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### Nominal Length vs. T5 Lamp Configurations

<table>
<thead>
<tr>
<th>Nominal Length</th>
<th>T5 Lamp Configurations</th>
<th>Stagger Overlap</th>
<th>LPxD, LPxR series Fixture Length</th>
<th>LPID Fixture Length</th>
<th>LP11, LP15 Fixture Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'</td>
<td>14/24W</td>
<td>none</td>
<td>2'</td>
<td>2'</td>
<td>2.5'</td>
</tr>
<tr>
<td>3'</td>
<td>21/39W</td>
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<td>3'</td>
<td>3'</td>
<td>3.5'</td>
</tr>
<tr>
<td>4'</td>
<td>28/54W</td>
<td>none</td>
<td>4'</td>
<td>4'</td>
<td>4.5'</td>
</tr>
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<td>5'</td>
<td>35/80W</td>
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<td>4'11&quot;</td>
<td>5'</td>
<td>5.5'</td>
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<td>21/39W, 21/39W</td>
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<td>5'10&quot;</td>
<td>6.5'</td>
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<tr>
<td>6'</td>
<td>28/54W</td>
<td>6&quot;</td>
<td>6.3'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7'</td>
<td>21/39W</td>
<td>none</td>
<td>6'10&quot;</td>
<td>7.5'</td>
<td></td>
</tr>
<tr>
<td>7'</td>
<td>21/39W</td>
<td>6&quot;</td>
<td>7.3'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8'</td>
<td>21/39W</td>
<td>none</td>
<td>7'10&quot;</td>
<td>8.5'</td>
<td></td>
</tr>
<tr>
<td>8'</td>
<td>21/39W</td>
<td>4.5&quot;</td>
<td>7.10&quot;</td>
<td></td>
<td></td>
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<td>21/39W, 21/39W, 21/39W</td>
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<td>8'9&quot;</td>
<td>9.5'</td>
<td></td>
</tr>
<tr>
<td>9'</td>
<td>21/39W</td>
<td>5&quot;</td>
<td>8.5&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10'</td>
<td>28/54W</td>
<td>none</td>
<td>9'9&quot;</td>
<td>10'5&quot;</td>
<td></td>
</tr>
<tr>
<td>10'</td>
<td>28/54W</td>
<td>5&quot;</td>
<td>9.9&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11'</td>
<td>28/54W</td>
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<td>10'8&quot;</td>
<td>11'5&quot;</td>
<td></td>
</tr>
<tr>
<td>11'</td>
<td>28/54W</td>
<td>5&quot;</td>
<td>10.8&quot;</td>
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<tr>
<td>12'</td>
<td>28/54W</td>
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<td>11'11&quot;</td>
<td>12'5&quot;</td>
<td></td>
</tr>
<tr>
<td>12'</td>
<td>28/54W</td>
<td>4&quot;</td>
<td>11.4&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: 14/24W = 2'  21/39W = 3'  28/54W = 4'  35/80W = 5'

Contact factory for exact sizes, or custom Downlight modules may affect length.

### TBar Distance vs. T5 Configurations

<table>
<thead>
<tr>
<th>TBar Distance</th>
<th>T5 configurations</th>
<th>Stagger Overlap</th>
<th>End Panels</th>
<th>Direct Lamp Fixture Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'</td>
<td>14/24W</td>
<td>none</td>
<td>none</td>
<td>23.75'</td>
</tr>
<tr>
<td>4'</td>
<td>21/39W</td>
<td>none</td>
<td>none</td>
<td>47.75'</td>
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<tr>
<td>6'</td>
<td>21/39W</td>
<td>none</td>
<td>2x1&quot;</td>
<td>71.75'</td>
</tr>
<tr>
<td>6'</td>
<td>21/39W, 21/39W</td>
<td>4&quot;</td>
<td>2x3&quot;</td>
<td>71.75'</td>
</tr>
<tr>
<td>8'</td>
<td>28/54W</td>
<td>none</td>
<td>2x1&quot;</td>
<td>95.75'</td>
</tr>
<tr>
<td>8'</td>
<td>21/39W, 21/39W</td>
<td>5&quot;</td>
<td>2x1&quot;</td>
<td>95.75'</td>
</tr>
<tr>
<td>10'</td>
<td>28/54W</td>
<td>none</td>
<td>2x2&quot;</td>
<td>119.75'</td>
</tr>
<tr>
<td>10'</td>
<td>28/54W, 21/39W</td>
<td>4&quot;</td>
<td>2x1&quot;</td>
<td>119.75'</td>
</tr>
<tr>
<td>12'</td>
<td>28/54W</td>
<td>none</td>
<td>2x2&quot;</td>
<td>143.75'</td>
</tr>
<tr>
<td>12'</td>
<td>28/54W, 21/39W</td>
<td>4&quot;</td>
<td>2x1&quot;</td>
<td>143.75'</td>
</tr>
</tbody>
</table>

End Panels are small aluminum plates to optimize staggered lamping for a more continuous lamp quality. End panels are placed at the end of runs to cover any dark space.

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Suspended Ceiling Details

**LP3.5RT**

![Diagram of LP3.5RT layout options]

**LP3.5RT - Techzone**

![Diagram of LP3.5RT-Techzone layout options]

**LP3.5RT Seamless**

![Diagram of LP3.5RT Seamless layout options]

Colors and Finishes:

- **Standard**: "Ultimate" Natural aluminum: A two step, clear anodizing process that creates a smooth and durable surface.
- **Option**: Black - BK powdercoat
- **Option**: White - WH powdercoat
- **Option**: RAL - powdercoat the RAL color of your choice. Specify RAL code.

Design Specifications

**Construction**
Extruded architectural grade T6061 aluminum. Minimum wall thickness is .080%, 100% recyclable. Reflectors are formed from .040 aluminum and finished in Titanium white powdercoat. Lenses are made from twin layered extruded high-impact acrylic. EMT is a half frosted/white combination. Single piece construction aluminum louver with clear matte anodized finish.

**Electrical Details**

- All ballasts are electronic <10% THD
- Class P electronic ballasts - Programmed start
- Standard and dimming ballasts are integral to channel (unless otherwise noted)
- Low voltage transformers are individual 60W units (277V/12V non-dim or 120/12V)
- All LED drivers are integral electronic Class 2 unless otherwise noted.
- LED light engine is LM-80 compliant with 80 CRI minimum.
- Multiple interface options available including dimming, motion sensing, daylight harvesting and DALI.
- ETL listed Damp with Lens

**Emergency**
Fixtures can be wired for emergency circuit or emergency battery backup.
- Emergency one-lamp ballasts provide 90 minutes of illumination.
- T5/T5HO = Initial output of 1300 Lumens

**Finish**
All fixtures are standard in Ultimate aluminum finish (AL) - A deep etch and two-step clear anodizing process that gives a smooth, clean and durable surface. Powder Coat options are available. Consult factory.

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