Recess 4.5”
Classic White Downlight

An elegant solution for a variety of applications. Featuring clean, architectural grade finishes and two high quality white light options, the Recess 4.5 installs beautifully into all ceiling types, including drywall, stone, and wood and makes every space look its best.

- **Ideal Applications:** Medium to Large-Scaled Spaces
- **Recommended for Ceiling Height:** 14’ – 20’
- **Light Type:** Consistent warm or neutral white, soft ambient light

### 4.5” DOWNLIGHT PERFORMANCE DATA

**Shape**
- Round
- Square

**Delivered Lumens:**
- Classic White Round: 1450
- Classic White Square: 1550

**Lumens Per Watt:**
- Classic White: 60
- Classic White: 65

**Source Lumens:**
- 1875

**CCT:**
- 2700K or 3000K

**CRI:**
- 90+

**Beamspread:**
- Wide Beam / Straight Down

### Light Levels at:

#### 4’ x 4’ Layout
- Ceiling Height
- Light levels at Work Plane (2.5’ AFF):
- Light levels (fc) foot candles
- 79 70 62 55 49 43 38

#### 5’ x 5’ Layout
- Ceiling Height
- Light levels at Work Plane (2.5’ AFF):
- Light levels (fc) foot candles
- 64 58 53 48 43 39 35

#### 6’ x 6’ Layout
- Ceiling Height
- Light levels at Work Plane (2.5’ AFF):
- Light levels (fc) foot candles
- 48 47 44 41 37 35 32

#### 8’ x 8’ Layout
- Ceiling Height
- Light levels at Work Plane (2.5’ AFF):
- Light levels (fc) foot candles
- 32 27 24 22 19 18 16

**Spacing Criteria = 0.73**

For approximate light level recommendations, please refer to the IES guidelines shown below:

- **Workshop / Tools / Crafts:** 40-100 fc
- **Board Games / Cards:** 20-40 fc
- **Dining:** 5-10 fc
- **Kitchen:** 30-50 fc
- **Computer:** 15-30 fc
- **Media:** 2-20 fc
- **Reading:** 20-50 fc
- **Dressing:** 10-30 fc
- **Corridors / Circulation:** 3-5 fc
# HOW TO SPECIFY

## Recess 4.5”
Classic White Downlight

### Seven Easy Steps to Specify

#### 1. Select Housing Type

<table>
<thead>
<tr>
<th>For Ceilings without Insulation</th>
<th>For Insulated Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat Low Profile Housing (FT)</td>
<td>New Construction / IC Rated Housing (IC)</td>
</tr>
<tr>
<td>Smallest Available</td>
<td>Rated for Direct Contact with Insulation</td>
</tr>
<tr>
<td>![FT Housing Diagram]</td>
<td>![IC Housing Diagram]</td>
</tr>
</tbody>
</table>

**Cautions:**
- Select Housing Type based on ceiling type and insulation.
- Choose the appropriate housing for the application.

#### 2. Select White Light

- **Warm White (C27)**: 2700 Kelvin, Similar to Incandescent
- **Neutral White (C30)**: 3000 Kelvin, Similar to Halogen

**Recommendation:**
- Choose a white light based on the desired color temperature.

#### 3. Select Dimming Control Type - Smooth Dimming to 1% Standard

- **0-10V Low Voltage Dimming (IV24A)**
  - Compatible with 0-10V Controls
- **Phased Line Voltage Dimming (IP24A)**
  - Compatible with Forward and Reverse Phase Dimmers

**Tips:**
- Select the appropriate dimming control type to suit your needs.
- Ensure compatibility with your existing dimming system.
# HOW TO SPECIFY

## Recess 4.5” Classic White Downlight

### Select Shape
- **Square**
- **Round**

### Select Trim Style For Ceiling Type
- **Trimmed (F)** for All Ceiling Types
- **Trimless (P)** for Sheetrock Ceilings Only (Must be Spackled In)
- **Millwork (M)** for Millwork and Stone Ceilings

### Select Glass Lens
- **Solite (S)** provided standard
- **Frosted (F)**
  - Light diffusion with the most efficiency
  - Medium diffusion for softer light output, approximately 12% less light output

### Select Trim Finish
- **White (WH)** provided standard
- **Black (BL)**
- **Statuary Bronze (BZ)**
- **Metalized Grey (GR)**
- **Primer (PR)**
- **Clear Matte Anodized (AC)**
- **Black Anodized (AB)**

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See Next Page For How to Specify
# How to Specify

## Recess 4.5”

**Classic White Downlight**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Light Fixture Type</th>
<th>LED + Control</th>
<th>Options</th>
<th>Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>USAI</td>
<td>4DL</td>
<td></td>
<td></td>
<td>00</td>
</tr>
<tr>
<td>USAI Lighting</td>
<td>4.5” Downlight, 24W</td>
<td>FT Flat Housing New Construction</td>
<td>WH White (provided standard)</td>
<td>00</td>
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<tr>
<td>USAI Lighting</td>
<td>D1 Fixed Downlight</td>
<td>IC New Construction / IC Rated Housing / Airtight</td>
<td>BL Black</td>
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<tr>
<td>USAI Lighting</td>
<td>FT Flat Housing New Construction</td>
<td>C27 Warm White 2700K High 90+ CRI</td>
<td>PR Primer</td>
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<tr>
<td>USAI Lighting</td>
<td>C30 Neutral White 3000K High 90+ CRI</td>
<td>IP24A Integral Phase Dimming Driver, to 1% 120V only, 24W</td>
<td>AC Clear Matte Anodized</td>
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<tr>
<td>USAI Lighting</td>
<td>IV24A Integral 0-10V Dimming Driver, to 1% 120V-277V, 24W</td>
<td>R Round S Square</td>
<td>AB Black Anodized</td>
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<td>C27 Warm White 2700K High 90+ CRI</td>
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<tr>
<td>USAI Lighting</td>
<td>RT Trimmed Only Retrofit from below ceiling</td>
<td>C27 Warm White 2700K High 90+ CRI</td>
<td>PR Primer</td>
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<tr>
<td>USAI Lighting</td>
<td>SH Trimmable Glass (provided standard)</td>
<td>F Frosted Glass</td>
<td>AB Black Anodized</td>
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<tr>
<td>USAI Lighting</td>
<td>Textured Glass (provided standard)</td>
<td>S Solite Textured Glass (provided standard)</td>
<td>WH White (provided standard)</td>
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<tr>
<td>USAI Lighting</td>
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<td>AB Black Anodized</td>
<td>WH White (provided standard)</td>
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<tr>
<td>USAI Lighting</td>
<td>Statuary Bronze</td>
<td>GR Metalized Grey</td>
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RECESS 4.5 SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE
is serviceable through the aperture without tools or with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

FIELD REPLACEABLE DRIVER
All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. Some on-time delay may be experienced depending on control system used. All dimming drivers comply with IEEE C62.41 surge protection.

HOUSING
All Recess 4.5 fixtures are field-flexible which allow for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. Housings are fabricated of 20 ga. steel construction with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring.

ADJUSTMENT
362° horizontal locking in 90° increments.

FIXTURE WEIGHT
FT and RT housings weigh 8 lbs. IC housings weigh 16 lbs.

CEILING CUT OUT
Trimmed with Overlap Flange Round: 5-1/16" Ø
Trimmed with Overlap Flange Square: 5-1/16" x 5-1/16"
Trimless Spackle-in Round: 5-1/2" Ø
Trimless Spackle-in Square: 5-1/2" x 5-1/2"
Millwork: Knife-edge Round: 4-15/16" Ø
Millwork: Knife-edge Square: 4-15/16" x 4-15/16"
Retrofit Round: 5-1/2" Ø
Retrofit Square: 5-1/2" x 5-1/2"

LISTINGS
Dry/Damp/Wet location. AC and AB trim finishes are dry/damp only. UL2043 rated for use in air handling plenums. NRTL/CSA-US tested to UL standards. IBEW union made.

NOTES
• Not for use in corrosive environment
• Use of pressure washer voids warranty

PHOTOMETRICS
Consult factory or website for IES files. Tested in accordance with IESNA LM79.