Recess 4.5”
Color Select Tunable White Downlight

An elegant solution for a variety of applications. Featuring clean, architectural grade finishes and a smooth transition from cool white light to warm, 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:** Tunable White light from warm candlelight (2200K) to bright daylight (6000K)

4.5” DOWNLIGHT PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Color Temperature</th>
<th>2200K</th>
<th>2700K</th>
<th>3000K</th>
<th>3500K</th>
<th>4000K</th>
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<tbody>
<tr>
<td>Delivered Lumens:</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>44</td>
<td>1400</td>
<td>1525</td>
<td>1600</td>
<td>1675</td>
<td>1750</td>
<td>1800</td>
<td>1900</td>
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<tr>
<td>Lumens Per Watt:</td>
<td>48</td>
<td>53</td>
<td>52</td>
<td>57</td>
<td>57</td>
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<td>59</td>
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<tr>
<td>Source Lumens:</td>
<td>1800</td>
<td>2000</td>
<td>2075</td>
<td>2150</td>
<td>2250</td>
<td>2350</td>
<td>2450</td>
</tr>
<tr>
<td>Wattage</td>
<td>32W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>CCT:</td>
<td></td>
<td></td>
<td></td>
<td>2200K to 6000K</td>
<td></td>
<td></td>
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<tr>
<td>CRI:</td>
<td></td>
<td></td>
<td></td>
<td>80+</td>
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<td></td>
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</tr>
<tr>
<td>Beamspread:</td>
<td></td>
<td></td>
<td></td>
<td>Wide Beam / Straight Down</td>
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</tr>
</tbody>
</table>

Photograph: Karl Puchlik

4’ x 4’ LAYOUT | CEILING HEIGHT
--- | ---
Light levels at: 8’ 10’ 12’ 14’ 16’ 18’ 20’ |
Light levels on Work Plane (2.5’ AFF): 85 75 66 59 52 46 41 [fc] foot candles

5’ x 5’ LAYOUT | CEILING HEIGHT
--- | ---
Light levels at: 8’ 10’ 12’ 14’ 16’ 18’ 20’ |
Light levels on Work Plane (2.5’ AFF): 69 63 57 51 46 42 38 [fc] foot candles

6’ x 6’ LAYOUT | CEILING HEIGHT
--- | ---
Light levels at: 8’ 10’ 12’ 14’ 16’ 18’ 20’ |
Light levels on Work Plane (2.5’ AFF): 52 51 48 44 40 37 34 [fc] foot candles

8’ x 8’ LAYOUT | CEILING HEIGHT
--- | ---
Light levels at: 8’ 10’ 12’ 14’ 16’ 18’ 20’ |
Light levels on Work Plane (2.5’ AFF): 34 28 25 23 21 19 17 [fc] foot candles

Spacing Criteria = 0.88

Average light levels are provided in the tables above, for a range of lighting fixture layouts and ceiling heights. All illuminance values are reported in average footcandles (fc) and measured at the workplane, 30” above the floor.
Five Easy Steps to Specify

1. Select Housing Type

For Ceilings without Insulation
- Narrow Width Slide Mechanism (NM)
  - Adjustable collar (1” min)
  - Max Ceiling Thickness: 5 1/4" 4 1/8"
  - 19" 22"

For Insulated Ceilings
- New Construction / IC Rated Housing (IC)
  - Rated for Direct Contact with Insulation
  - 8 1/4" 1 1/4" Max Ceiling Thickness
  - 19 1/4" 22 1/4"

2. Select Shape
- Square
- Round

3. 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

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

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## HOW TO SPECIFY

### Recess 4.5”
Color Select Tunable White Downlight

<table>
<thead>
<tr>
<th>Select Trim Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>White (WH) provided standard</td>
</tr>
<tr>
<td>Black (BL)</td>
</tr>
<tr>
<td>Statuary Bronze (BZ)</td>
</tr>
<tr>
<td>Metalized Grey (GR)</td>
</tr>
<tr>
<td>Primer (PR)</td>
</tr>
<tr>
<td>Clear Matte Anodized (AC)</td>
</tr>
<tr>
<td>Black Anodized (AB)</td>
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</table>

### How to Specify

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Light Fixture Type</th>
<th>LED + Control</th>
<th>Options</th>
<th>Revision</th>
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<tbody>
<tr>
<td>USAI Lighting</td>
<td>4DL</td>
<td>TW1</td>
<td>K</td>
<td>00</td>
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<tr>
<td></td>
<td>D1 Fixed Downlight</td>
<td>IV32A</td>
<td>S</td>
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</tr>
<tr>
<td></td>
<td>NM Narrow Width Side Mechanism</td>
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<td>F</td>
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<tr>
<td></td>
<td>IC New Construction / IC Rated Housing / Artight</td>
<td></td>
<td>K</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LED Color</td>
<td>Wattage Driver</td>
<td>Beam Spread</td>
<td>Finish Version</td>
</tr>
<tr>
<td></td>
<td>TW1 Color Select Tunable White from 2200K to 6000K, continuously variable through 0-10V controls by others</td>
<td>IV32A Integral 0-10V Dimming Driver, to 1% 120V-277V, 32W</td>
<td>R Round</td>
<td>S Square</td>
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<tr>
<td></td>
<td>Lens</td>
<td>Style</td>
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<td>Lens</td>
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<tr>
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<td>Textured Glass</td>
<td>Trimmed</td>
<td>P Trimless</td>
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<tr>
<td></td>
<td>Frosted Glass</td>
<td>Millwork</td>
<td>M Millwork</td>
<td>Metalized Grey</td>
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<td>Black</td>
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<td>Primer</td>
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<td>Clear Matte Anodized</td>
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<td>Black Anodized</td>
</tr>
</tbody>
</table>

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
IC housings weigh 16 lbs. NM housings weigh 10 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"

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.