WHY ELEMENT?
A GUIDE TO ELEMENT ARCHITECTURAL RECESSED DOWNLIGHTS
Private Residence by: dSpace Studio | Chicago, IL | Architects: Kevin Toukoumidis and Kathryn McRay | Lighting Designer: Anne Kustner
WHY ELEMENT?
WHAT MATTERS TO YOU, MATTERS TO US

ABOVE THE CEILING MATTERS

With all of our recessed products, we take great care to ensure the highest quality housing components and assembly methods are employed so you can rest assured that all the things you can’t see—aiming mechanisms, heat sinks, drivers and wiring systems—deliver exceptional performance and safety.

AT THE CEILING MATTERS

A highly engineered recessed lighting system deserves a premium ceiling appearance. Every ELEMENT trim is made of either die-cast aluminum or a single sheet of cold-rolled steel for superior durability without sagging or warping. Trims are then powder coated for a superior finish and reduced glare. Further, die-cast or steel mesh mud plates help create a smooth, flangeless appearance between trim and ceiling: No seams. No flexing. No cracks.

BELOW THE CEILING MATTERS

Beautiful aesthetics and precision engineering cannot come at the expense of light performance. Every ELEMENT fixture delivers pristine, consistent light. Our engineers stay at the cutting edge of technology to deliver illumination with greater light output, longer life, less energy consumption, and a wide selection of LED and control options.

MULTIPLE INSTALLATION OPTIONS

New Construction  Special Application  Remodel

REFINED TRIM APPEARANCE

Die-Cast Aluminum  Cold-Rolled Steel (Multiples/BYOM only)

MULTIPLE APPLICATION STYLES

Fixed  Adjustable  Wall Wash
ELEMENT DOWNLIGHTS

OVERVIEW

ELEMENT is a modern interpretation of specification-grade downlighting, expertly engineered to deliver critically specified light for any environment. Since its inception, ELEMENT has been defined by the needs of the design community. Our goal is to design for you and help solve real lighting challenges.

DOWNLIGHTS

Where smaller is better, minimal 1.4” aperture delivers high output LED performance, full adjustability, and commercial grade construction.

LED
Adjustable/Wall Wash
Remodel Adjustable/Wall Wash

Small aperture downlights offer full adjustability and unique high-low lamp positioning (patented), high performance LED option packages. Available in LED or Halogen platforms.

LED
Adjustable
Dual Adjustable
Low-Profile Adjustable
Remodel Adjustable
Fixed
Low-Profile Fixed
Remodel Fixed
Ultra-Shallow Fixed
Wall Wash

HALOGEN
Adjustable
Dual Adjustable
Low-Profile Adjustable
Remodel Adjustable
Fixed
Low-Profile Fixed
Wall Wash

Ideal for maximum LED light output in environments with higher ceilings and a small aperture aesthetic is desired.

LED
Adjustable
Low-Profile Adjustable
Fixed
Wall Wash
Redefining and elevating the recessed multiples category with minimalist design and meticulous engineering. While other multiples can be bulky with visible hardware and electrical components, ELEMENT Multiples present a beautiful and uniquely-smooth appearance.

**LED**

Open/Trimmed
1x1, 1x2, 1x3, 1x4, 2x2
Spots, General Illumination, Wall Wash
## SPECIFICATION CHART

<table>
<thead>
<tr>
<th>ENTRA</th>
<th>ELEMENT 2*</th>
<th>ELEMENT 3*</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOW-PROFILE</td>
<td>HIGH-OUTPUT</td>
<td>ADJUSTABLE</td>
</tr>
</tbody>
</table>

### STANDARD LEAD TIME
- 24 hours
- 24 hours
- 5 days
- 24 hours (select SKUs)
- 5 days
- 24 hours (select SKUs)
- 5 days

### HOUSING
- **HEIGHT**
  - 3.5" (ENTRA)
  - 5.4" (ELEMENT 2*)
  - 5.3" (ELEMENT 3*)
  - 4.0" (ENTRA)
  - 4.0" (ELEMENT 2*)
- **WIDTH**
  - 7.3" (ENTRA)
  - 8.8" (ELEMENT 2*)
  - 10.0" (ELEMENT 3*)
  - 7.0" (ENTRA)
  - 11.5" (ELEMENT 2*)
- **LENGTH**
  - 12.2" (ENTRA)
  - 12.3" (ELEMENT 2*)
  - 12.0" (ELEMENT 3*)
  - 12.0" (ENTRA)
  - 17.5" (ELEMENT 2*)
- **HOUSING VOLUME**
  - 312 in³ (ENTRA)
  - 584 in³ (ELEMENT 2*)
  - 636 in³ (ELEMENT 3*)
  - 336 in³ (ENTRA)
  - 805 in³ (ELEMENT 2*)
- **MAX CEILING THICKNESS**
  - 1” (ENTRA)
  - 1” (ELEMENT 2*)
  - 2” (ELEMENT 3*)
  - 2.5” (ENTRA)
  - 2.5" (ELEMENT 2*)
- **EM OPTION**
  - - (ENTRA)
  - - (ELEMENT 2*)
  - - (ELEMENT 3*)
  - - (ENTRA)
  - - (ELEMENT 2*)
  - - (ELEMENT 3*)
- **INPUT VOLTAGE**
  - 120V or 277V (ENTRA)
  - 120V or 277V (ELEMENT 2*)
  - 120V or UNV (ELEMENT 3*)
  - 120V or UNV (ENTRA)
  - 120V or UNV (ELEMENT 2*)
  - 120V or UNV (ELEMENT 3*)
- **DIMMING/DRIVERS**
  - Phase 5%, 0-10 5% (ENTRA)
  - Phase 5%, 0-10 5% (ELEMENT 2*)
  - Phase 1%, 0-10 5% (ELEMENT 3*)
  - Phase 1%, 0-10 5% (ENTRA)
  - Phase 1%, 0-10 5% (ELEMENT 2*)
  - Phase 1%, 0-10 5% (ELEMENT 3*)
- **CEILING CUTOUT**
  - 4.00" (ENTRA)
  - 4.00" (ELEMENT 2*)
  - 2.75" (ELEMENT 3*)
  - 3.87" (ENTRA)
  - 3.87" (ELEMENT 2*)
- **FLANGELESS TRIM SIZE**
  - 3.50" (ENTRA)
  - 3.50" (ELEMENT 2*)
  - 2.50" (ELEMENT 3*)
  - 3.25" (ENTRA)
  - 3.25" (ELEMENT 2*)
- **FLANGED TRIM SIZE**
  - 4.60" (ENTRA)
  - 4.60" (ELEMENT 2*)
  - 3.10" (ELEMENT 3*)
  - 4.30" (ENTRA)
  - 4.30" (ELEMENT 2*)
- **TRIM APERTURE SIZE**
  - 2.00" (ENTRA)
  - 2.00" (ELEMENT 2*)
  - 1.40" (ELEMENT 3*)
  - 1.75" (ENTRA)
  - 1.75" (ELEMENT 2*)
- **CEILING APPEARANCE**
  - Flanged, Flangeless (ENTRA)
  - Flanged, Flangeless (ELEMENT 2*)
  - Flanged, Flangeless (ELEMENT 3*)
  - Flanged, Flangeless Wood (ENTRA)
  - Flanged, Flangeless Wood (ELEMENT 2*)
  - Flanged, Flangeless Wood (ELEMENT 3*)
- **TRIM COLORS**
  - White, Silver (ENTRA)
  - White, Silver (ELEMENT 2*)
  - White, Black, Antique Bronze, Satin Nickel (ELEMENT 3*)
  - White, Black, Antique Bronze, Satin Nickel (ENTRA)
  - White, Black, Antique Bronze, Satin Nickel (ELEMENT 2*)
  - White, Black, Antique Bronze, Satin Nickel (ELEMENT 3*)
- **MAX TILT ANGLE**
  - 30° (ENTRA)
  - 30° (ELEMENT 2*)
  - 45° (ELEMENT 3*)
  - 45° (ENTRA)
  - - (ELEMENT 2*)
  - - (ELEMENT 3*)
- **TOOL-FREE AIM/LOCK**
  - - (ENTRA)
  - - (ELEMENT 2*)
  - - (ELEMENT 3*)
  - - (ENTRA)
  - - (ELEMENT 2*)
  - - (ELEMENT 3*)
- **ROTATION**
  - 359° (ENTRA)
  - 359° (ELEMENT 2*)
  - 359° (ELEMENT 3*)
  - - (ENTRA)
  - - (ELEMENT 2*)
  - 361° (ELEMENT 3*)
- **HIGH-LOW LED ADJUSTABLE**
  - - (ENTRA)
  - - (ELEMENT 2*)
  - High-low (ELEMENT 3*)
  - - (ENTRA)
  - - (ELEMENT 2*)
  - - (ELEMENT 3*)
- **COLLAR ADJUSTMENT**
  - - (ENTRA)
  - - (ELEMENT 2*)
  - 45° (ELEMENT 3*)
  - - (ENTRA)
  - - (ELEMENT 2*)
  - - (ELEMENT 3*)

All values in chart are applicable for IC Airtight and Chicago Plenum.
All tested values in chart are based on 80 CRI/3000K (ELEMENT) and 90 CRI/3000K (Entra and Warm Dim).
For information on Entra Performance Downlights visit techlighting.com.
*For lower output options, please refer to techlighting.com.
**ELEMENT 4* 4000 lumens available in non-IC only.
<table>
<thead>
<tr>
<th></th>
<th>ELEMENT 3”</th>
<th>ELEMENT 4”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NEXT GEN</td>
<td>ULTRA SHALLOW</td>
</tr>
<tr>
<td></td>
<td>(FIXED/ADJ./WW)</td>
<td>FIXED</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>STANDARD LEAD TIME</strong></th>
<th>5 days</th>
<th>5 days</th>
<th>5 days</th>
<th>5 days</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HEIGHT</strong></td>
<td>4.0’</td>
<td>2.0’</td>
<td>4.1’</td>
<td>5.5’</td>
</tr>
<tr>
<td><strong>WIDTH</strong></td>
<td>9.5’</td>
<td>11.5’</td>
<td>13.8’</td>
<td>11.5’</td>
</tr>
<tr>
<td><strong>LENGTH</strong></td>
<td>12.5’</td>
<td>17.5’</td>
<td>20.0’</td>
<td>14.5’</td>
</tr>
<tr>
<td><strong>HOUSING VOLUME</strong></td>
<td>475 in³</td>
<td>403 in³</td>
<td>1132 in³</td>
<td>917 in³</td>
</tr>
<tr>
<td><strong>MAX CEILING THICKNESS</strong></td>
<td>2.5’</td>
<td>2.5’</td>
<td>2.5’</td>
<td>2.5’</td>
</tr>
<tr>
<td><strong>EM OPTION</strong></td>
<td>EM larger housing</td>
<td>-</td>
<td>EM larger housing</td>
<td>EM larger housing</td>
</tr>
</tbody>
</table>

| **CRI**                | 80/90            | 80/90            | 80/90            | 80/90            |
| **MACADAMS ELIPSES**   | 2-step           | 2-step           | 2-step           | 2-step           |
| **PREMIUM OPTIONS**    | Xicato           | -                | -                | Xicato           |
| **OUTPUT (LMS, MAX)**  | 1800             | 1800             | 2900             | 4000²            |
| **EFFICACY (LPW)**     | 106              | 106              | 100              | 111              |
| **WARM DIM OUTPUT**    | 1320             | 1320             | 2375             | 2375             |
| **WARM DIM EFFICACY**  | 78               | 78               | 77               | 77               |
| **BEAM SPREAD OPTIONS**| 10, 18, 25, 40, 60 | 18, 25, 40, 60 | 10, 18, 25, 40, 60 | 10, 18, 25, 40, 60 |
| **INPUT VOLTAGE**      | 120V or UNV      | 120V or UNV      | 120V or 277V     | 120V or 277V     |
| **DIMMING/DRIVERS**    | Phase 1%, 0-10 5% | Phase 1%, 0-10 5% | Phase 1%, 0-10 5% | Phase 1%, 0-10 5% |
| **CEILING CUTOUT**     | 3.87”            | 3.87”            | 4.50”            | 4.50”            |
| **FLANGELESS TRIM SIZE** | 3.25”          | 3.25”            | 4.00”            | 4.00”            |
| **FLANGED TRIM SIZE**  | 4.30”            | 4.30”            | 5.25”            | 5.25”            |
| **TRIM APERTURE SIZE** | 1.75”            | 1.75”            | 2.80”            | 2.80”            |
| **CEILING APPEARANCE** | Flanged, Flangeless, Flangeless Wood | Flanged, Flangeless, Flangeless Wood | Flanged, Flangeless | Flanged, Flangeless |
| **TRIM COLORS**        | White, Black, Antique Bronze, Satin Nickel | White, Black, Antique Bronze, Satin Nickel | White, Black, Antique Bronze, Satin Nickel | White, Black, Antique Bronze, Satin Nickel |
| **MAX TILT ANGLE**     | 40°              | -                | 40°              | 40°              |
| **TOOL-FREE AIM/LOCK** | Tool-free        | -                | Tool-free        | Tool-free        |
| **ROTATION**           | 361°             | -                | 361°             | 361°             |
| **HIGH-LOW LED ADJUSTABLE** | High-low    | -                | -                | High-low         |
| **COLLAR ADJUSTMENT**  | 45°              | -                | 45°              | 45°              |

For information on Entra Performance Downlights visit techlighting.com.

All tested values in chart are based on 80 CRI/3000K (ELEMENT) and 90 CRI/3000K (Entra and Warm Dim).

All values in chart are applicable for IC Airtight and Chicago Plenum.

Xicato

Bronze, Satin Nickel

White, Black, Antique Bronze, Satin Nickel

techlighting.com
INTRODUCING THE NEXT GENERATION
ELEMENT’S NEW AND IMPROVED 3" AND 4" DOWNLIGHTS

Since inception, Tech Lighting’s ELEMENT line of architectural downlights is continually innovated to meet the performance and functionality demands of professional lighting specifiers. Now, with a dramatic redesign of its core platforms, Tech Lighting is introducing the Next Generation of ELEMENT Downlights, which further improves upon ELEMENT’s most popular features.

IMPROVED DESIGN AND PERFORMANCE

• Housing size reduced by 60% (ELEMENT 3" Adjustable Housing)
• Increased efficacy: 11% wattage reduction while maintaining lumen output
• 2-step McAdam ellipses standard
• Premium dimming: <1% standard for Triac/ELV
• Driver options: Lutron Hi-Lume/Ecosystem and eldoLED compatible with all square and round, flanged and flangeless housings
• Xicato Standard and Artist Series LED options
• Best-in-Class Wall Wash
• True 10° optic (19, 414 CBCP)
• High output warm dim, <1% standard for Triac/ELV dimming (3": 1300 lumens, 3000-1800K; 4": 2374 lumens, 3000-1800K)

HOUSING REDUCED BY 60%
New Dimensions: 9.5" W x 12.5" L x 4" H
outer blue shell references size of original E3 housing

ENHANCED QUIET CEILING

• LED Module aiming mechanism hardware is minimized and moved away from the aperture to reduce visibility from below the ceiling
• Low reflectance black paint in housing interior minimizes flash and visibility of housing structure
• Specular reflector shielding accessories close interior visibility (p. 20)

SIMPLIFIED INSTALLATION AND SERVICE

• Simple twist-off cap to change out optics
• Easy-access LED module allows for simple CCT changes or Warm Color Dimming upgrade from below the ceiling
• Achieve precise alignment of Next Generation square trims with 45° adjustable collar
TOOL-FREE AIMING, POSITIONING AND LOCKING
EASY ADJUSTMENT IN CRITICAL SITUATIONS

With a keen understanding of the challenges that face lighting designers, ELEMENT engineers have set new standards for aiming and scene-setting. Whether it be in commercial spaces where light levels and aiming are critical, or in residential settings where comfort and ambiance are the measure of a lighting design’s success, ELEMENT solutions meet every need.

HOT AIMING (TOOL-FREE)

- Tilt mechanism allows for hot aiming with lockable positioning
  - 2” Series: 0° - 45° tilt
  - 3” and 4” Series: 0° - 40° tilt
  - Center beam is maintained through aperture even at full tilt

361° ROTATION (TOOL-FREE)

- Easy to use cam lever for rotation lock
- Moving rotation stop allows for up to 361° rotation without dead spots

HIGH-LOW LAMP POSITIONING (TOOL-FREE)

- Innovative high-low functionality allows for maximum light output (low position) or for a quieter ceiling and glare reduction (high position)
- Reduces cut-off at severe angles

Note: All images represent ELEMENT Next Generation 3" Adjustable Downlight
TECHNOLOGY
TO DELIVER PERFORMANCE & CHOICE

ELEMENT engineers are constantly working with the latest technologies to deliver LED illumination with a longer life, less energy consumption, greater light output, and minimal color shift or degradation. As LED technology advances and lighting designers become more discerning, ELEMENT fixtures are continuously updated with cutting edge features.

• Choice of lumen output to create ideal lighting designs appropriate to an environment. Max Output: 3572 lumens

• Multiple CCT static white light options, 2-step MacAdam ellipses standard to ensure consistency fixture to fixture

• Warm Color Dimming to mimic traditional incandescent dimming, including solutions that follow the black body curve

• Multiple CRI options for accurate and consistent color rendering appropriate to an environment

• Multiple Driver options to meet numerous dimming protocols including premium Triac/ELV dimming down to 1% standard

• Agnostic fixture design accepts a wide variety of LED Module options: Xicato, Xicato Artist Series, Citizen Static White and Warm Color Dimming

• Long Life LEDs: L70-50,000 hours as our minimum

EXCEEDING INDUSTRY STANDARDS

With ELEMENT, designers can be confident in the LED performance maintaining light output and color quality for years of continuous use. All ELEMENT LED modules are engineered and tested to exceed the highest industry standards.

ELEMENT 3" CITIZEN LED LIFE SPAN
COLOR CONSISTENCY

ELEMENT fixtures offer a range of static white CCT’s, as well as warm color dimming and programmable white options, with 2-step MacAdam ellipses standard to maintain consistency fixture to fixture.

80+ to 95+ CRI options deliver accurate and consistent color rendering to meet all needs.

**STATIC WHITE**

- **80 CRI**
  - Accurate colors with maximum efficacy

- **90 CRI**
  - Color rendering for more demanding applications

<table>
<thead>
<tr>
<th>2700K</th>
<th>3000K</th>
<th>3500K</th>
<th>4000K</th>
</tr>
</thead>
</table>

**WARM DIM**

- **90 CRI**
  - Color rendering for more demanding applications

<table>
<thead>
<tr>
<th>1800K</th>
<th>3000K</th>
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</thead>
</table>
LED LAMPPING
TO MEET EXACTING PERFORMANCE CRITERIA

ELEMENT Downlight platforms are specifically designed to offer a variety of LED solutions. The innovative ELEMENT design allows our downlight series to maintain an LED agnostic platform that adapts to today’s most relevant LED offerings and to new LED technologies as they are developed in the future. This flexibility empowers the design community to select an LED solution that best fits the design and performance preferences for any given project. ELEMENT LED modules are engineered with a distinct set of features and benefits.

### DOWNLIGHT MODULES SELECTION GUIDE

<table>
<thead>
<tr>
<th>LED LAMPING</th>
<th>2°</th>
<th>3°</th>
<th>4°</th>
<th>2°</th>
<th>3°</th>
<th>4°</th>
<th>3°</th>
<th>4°</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DELIVERED LUMENS</strong></td>
<td><strong>HIGH</strong></td>
<td><strong>LOW</strong></td>
<td><strong>HIGH</strong></td>
<td><strong>LOW</strong></td>
<td><strong>MAX</strong></td>
<td><strong>HIGH</strong></td>
<td><strong>LOW</strong></td>
<td><strong>HIGH</strong></td>
</tr>
<tr>
<td><strong>DELIVERED LUMENS</strong></td>
<td>1500/1250</td>
<td>196/930</td>
<td>1800/1450</td>
<td>1319/124</td>
<td>4000/3400</td>
<td>2900/2465</td>
<td>1800/1450</td>
<td>850</td>
</tr>
<tr>
<td><strong>WATTS</strong></td>
<td>17</td>
<td>12.4</td>
<td>17</td>
<td>12</td>
<td>35</td>
<td>29</td>
<td>17</td>
<td>12</td>
</tr>
<tr>
<td><strong>EFFICACY</strong></td>
<td>88/73</td>
<td>95/75</td>
<td>106/82</td>
<td>110/94</td>
<td>112/96</td>
<td>100/85</td>
<td>116/93</td>
<td>71</td>
</tr>
<tr>
<td><strong>CRI</strong></td>
<td>80+/90+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>90+</td>
</tr>
<tr>
<td><strong>COLOR CONSISTENCY</strong></td>
<td>2-Step</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3-step</td>
</tr>
<tr>
<td><strong>CCT OPTIONS</strong></td>
<td>2700K, 3000K or 3500K</td>
<td>3000K-1800K</td>
<td>Warm Dim</td>
<td>3000K-1800K</td>
<td>Warm Dim</td>
<td>2700K, 3000K or 3500K**</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DIMMING</strong></td>
<td>Triac, ELV (down to 1%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0-10V (down to 5%)</td>
</tr>
</tbody>
</table>

Data in chart reflect 3000K/80 CRI values unless noted.
*See techlighting.com for dimmer compatibility.
**3500K Xicato module not available for Artist series.
WARM DIM
ELEMENT 2", 3" & 4"

- Best-in-class output and efficacy
- Dimmable with a variety of different dimming protocols, including Triac/ELV
- Reminiscent of the warm color dim of a traditional halogen source

STATIC WHITE
HIGH PERFORMANCE CITIZEN LED
(ELEMENT 2", 3" & 4", MULTIPLES & BYOM)

- Long life with excellent color over angle control
- Highest lumens/watt efficacy
- Precision TIR optics for optimal beam control

XICATO
FEATURING COLD PHOSPHOR
(ELEMENT 3" & 4")

- Premium quality of light maintained over time
- Artist Series with 95+ CRI when color quality matters most
- 1x2 step color consistency
- TM-30 color fidelity (Rf) 96
  TM-30 color gamut (Rg) 103

*Lens accessories only available for Citizen Module
Controls are becoming an increasingly integral part of lighting design, allowing precision light layering that supports circadian rhythm, mood setting or dramatic effects. With an increased focus on quality of light and energy consumption, ELEMENT offers a variety of solutions for even the most discerning dimming needs. The list below is the full range of dimming protocols offered throughout the ELEMENT line of recessed products. For specific dimming protocols available for ELEMENT housing configurations, consult product specification sheets.

- Triac/ELV standard 1%
- 0-10V standard 5%
- eldoLED 0-10V 1.0%
- eldoLED 0-10V 0.1%
- eldoLED Dali 0.1%
- Dali
- Lutron Hi-lume Ecosystem
  Fade-to-Black 0.1%
- Lutron 2-wire 1.0%

Watch the complete video at: element-lighting.com
OPTICS
TIR OPTICAL CONTROL

ELEMENT typically utilizes precision Total Internal Reflection (TIR) optics which capitalize on characteristics unique to LEDs. Custom designed precision TIR optics were developed to optimize light performance and beam control by directing light from the Light Emitting Surface (LES) to the TIR’s internal reflector design which creates a tightly controlled beam. Micro optic “pillows,” unique to ELEMENT, are utilized to ensure the beam is clean, smooth and defined. ELEMENT TIR optical controls allow optimized efficacy, beam shape and lux-on-target to deliver a superior experience.

BEAM SPREADS

2" DOWNLIGHTS

20°  30°  40°  60°  Wall Wash

3" DOWNLIGHTS

10°  18°  21**  25°  40°  43**  60**  Wall Wash**

4" DOWNLIGHTS

10°  18°  21**  25°  40°  43**  60**  Wall Wash**

MULTIPLES

20°  30°  40°  60°  Lambertian**
          (Gen. Illum.)  Wall Wash**

*Utilize reflector optical controls for Xicato modules.
**Trim mounted assembly.
BEST-IN-CLASS WALL WASH

ELEMENT Wall Wash sets a new performance benchmark for recessed downlights. Tech Lighting deliberately set about creating best-in-class recessed wall wash downlights and successfully met the challenge with its new ELEMENT 3” and Multiples wall wash solutions. These ELEMENT Wall Wash solutions create a beautifully uniform high output wash of LED light without scalloping or hot spots, eliminating shadows and emphasizing the smoothness of a wall from top to bottom.

Ideal for hotels, office reception areas, art galleries or museums, as well as for residential applications, ELEMENT recessed wall wash products make a statement by calling attention to architectural details, artwork, fireplaces, wall hangings and more. ELEMENT allows lighting designers to use wall washing to create a smooth luminous background for people and furnishings by dramatically emphasizing vertical surfaces to make a room appear larger and more spacious.

NEW ELEMENT 3" WALL WASH FEATURES:

- A trim-mounted assembly that can also be used to retrofit ELEMENT adjustable and fixed downlight housings
- Delivered Lumens: 1340 lms/17 watts; 21 peak fc (mounted 2.5 ft from wall)
- 79 efficacy (l/w)
- Max Vertical Luminance Ratio: 14 (2.5 ft set-back, 10 ft ceiling)
- Max Horizontal Luminance Ratio: 39 (2.5 ft set-back, 10 ft ceiling)
- Distance from ceiling to 1 foot candle: 1 inch
- Round and square trims; available in white, black, satin nickel and antique bronze
- Flanged or flangeless installation
- CCT: 2700K, 3000K, 3500K, Warm Dim
- Triac, ELV, 0-10V, Lutron Hi-lume, eldoLED

ELEMENT MULTIPLES WALL WASH FEATURES:

- Multiples Wall Wash Light Modules can be used individually in a 1x1 multiples housing or combined with additional Wall Wash, General Illumination or Adjustable Spot Light Modules in Multiples Open 1x2, 1x3, 1x4, or 2x2 housings
- Delivered Lumens: 1610 lms/17 watts; 37 peak fc (mounted 30” from wall)
- 90 efficacy (l/w)
- Max Vertical Luminance Ratio: 13
- Max Horizontal Luminance Ratio: 44
- Distance from ceiling to 1 foot candle: 2 inch
- Flanged or flangeless installation
- CCT: 2700K, 3000K, 3500K
- Triac, ELV, 0-10V, Lutron Hi-lume, eldoLED
HOUSINGS
TO MEET EVERY CODE AND ENVIRONMENT

Built to stand the test of time, as well as to withstand the rigors of busy construction sites, ELEMENT housings are designed to be contractor and construction code friendly.

**HANGER BARS**
Adjustable

**BUTTERFLY BRACKETS**
Attached to the side of the housing and vertically adjustable with a wing nut

**JUNCTION BOX**
Includes integral junction box approved for branch circuit through wiring

**HOUSING OPTIONS**
IC Airtight/Non-IC Airtight/Chicago Plenum
IC suitable for insulation rating up to R60
Emergency housing with integrated emergency battery back-up available in some configurations

**GUNSIGHTS**
Integral gunsights for positioning with laser level or string

**3" LED Next Generation Adjustable Downlight**

18
**HOUSING HEIGHTS**

<table>
<thead>
<tr>
<th>IC Type</th>
<th>Height</th>
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<tbody>
<tr>
<td>3&quot; HALOGEN ADJUSTABLE IC</td>
<td>9&quot;</td>
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<tr>
<td>2&quot; AND 4&quot; LED ADJUSTABLE IC</td>
<td>5.3&quot;</td>
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<tr>
<td>3&quot; LED ADJUSTABLE AND LOW-PROFILE IC</td>
<td>4&quot;</td>
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<tr>
<td>3&quot; LED LOW-PROFILE FIXED IC</td>
<td>3.4&quot;</td>
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<tr>
<td>3&quot; LED ULTRA-SHALLOW FIXED IC</td>
<td>2&quot;</td>
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</tbody>
</table>

**FINISH**
Durable matte black powder coat finish reduces internal glare

**MATERIAL**
Heavy gauge cold-rolled steel

**COLLAR**
45° alignment rotation

**THUMB SCREWS**
Facilitate ease of servicing driver compartment while ensuring fixture remains airtight after installation (3" & 4" housings)

**SPECIAL APPLICATION ULTRA-SHALLOW HOUSING**

Small aperture 3" LED Downlight uses standard ELEMENT 3" trims in an ultra-shallow height of 2", ideal for shallow or crowded plenum spaces. Provides the same output and warm dim options as the rest of the 3" LED line; suitable for IC applications.

**REMODEL VERSIONS ALSO AVAILABLE**

- Flangeless installation option available for seamless ceiling appearance
- Patented high-low lamp positioning
- Lockable tool-free hot aiming mechanism (2" series: 0-45° tilt; 3" series: 0-40° tilt)
- 360° rotation without dead spots
A QUIET CEILING

ELEMENT Downlight engineers are focused on producing refined light without the distractions of glare or visibility of the mechanics inside the fixture. The concept of a quiet ceiling means that a downlight enhances the experience of an environment by highlighting art, furniture, and architecture; by improving visual comfort while performing specific tasks; and by creating an emotional mood for a space...all without calling attention to the fixture itself. Creating visibility while becoming invisible.

- Innovative high-low functionality allows designers the choice of lamp placement in the low position for maximum light output or high position to reduce glare and flash on trim
- LED Module aiming mechanism hardware hidden to minimize visibility from below the ceiling
- Mechanism features low reflectance black paint to minimize flash and visibility of housing structure
- Trim-mounted Specular Reflector accessories reduce glare and eliminate visibility into the housing
- Flangeless trims create a smooth, seamless transition from the ceiling to the light aperture
- White trims are paintable to completely blend with room decor

SPECULAR REFLECTORS

ELEMENT Specular Reflectors reduce glare while creating a clean, quiet ceiling appearance. Featuring anodized aluminum construction Specular Reflectors are available in black for a minimal look as well as in gold or silver for adding decorative accents. Specular Reflectors fit most ELEMENT trims and housings and do not affect light performance, color or output.
TRIMS
TO ENSURE EVERY DETAIL IS PERFECTLY EXECUTED

Though a trim may be considered the simplest aspect of the downlight’s engineering, it plays a significant role in the “at the ceiling” experience of ELEMENT products. How the ceiling is finished at the downlight and how the light moves through the aperture are critically affected by the trim design. No warping. No sagging.

TWO-TONE FINISH
features a painted black interior for reduced glare and flash (black powder coat, white powder coat (paintable), and satin nickel or antique bronze plated finishes)

PRECISION TENSION SPRINGS
heat-treated for optimal strength and solid mechanical mounting engagement for a tight fit with no sagging (ELEMENT 2” & 3” flangeless trims utilize precision tension ball catches)

ONE PIECE DIE-CAST
for clean, seamless corners and rugged durability that will not warp over time

<table>
<thead>
<tr>
<th>SHAPE</th>
<th>CEILING APPEARANCE</th>
<th>STYLE</th>
<th>FINISH</th>
<th>WALL WASH</th>
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<tbody>
<tr>
<td>Square</td>
<td>Flanged</td>
<td>Bevel</td>
<td>White</td>
<td>Square</td>
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<tr>
<td>Round</td>
<td>Flangeless</td>
<td>Flat</td>
<td>Satin Nickel</td>
<td>Round</td>
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<td>3&quot; square/flanged/bevel/white</td>
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</table>

3" series images shown
FLANGELESS WOOD CEILING
ADJUSTABLE TRIM ADAPTER

ELEMENT 3” wood ceiling housings (designated by “WC” in the ordering grid) ship with an adjustable trim adapter that inserts into the housing aperture and accommodates standard ELEMENT 3” flangeless trims for a truly flangeless, flush ceiling appearance in special applications such as wood or stone installation. For use in new construction.
3" LED Adjustable Downlights (round/flared/flat/antique bronze/wood ceiling)

Private Residence by: Mosaic Architects + Interiors | Boulder, CO
Architect: Melissa Livingston | Lighting Designer: 186 Lighting Design Group | Photography: Jim Bartsch
### MULTIPLES SPECIFICATION CHART

<table>
<thead>
<tr>
<th></th>
<th>ADJUSTABLE</th>
<th>GENERAL ILLUMINATION</th>
<th>WALL WASH</th>
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#### HOUSING

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<td>Height</td>
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<td>Width</td>
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<td>Length</td>
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<tr>
<td>Housing Volume</td>
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<td>500 in³</td>
<td>500 in³</td>
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<tr>
<td>Max Ceiling Thickness</td>
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<tr>
<td>EM Option</td>
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#### PERFORMANCE

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<tbody>
<tr>
<td>CCT</td>
<td>2700K/3000K/3500K</td>
<td>2700K/3000K/3500K</td>
<td>2700K/3000K/3500K</td>
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<tr>
<td>CCT Warm Dim</td>
<td>3000K - 1800K</td>
<td>3000K - 1800K</td>
<td>3000K - 1800K</td>
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<tr>
<td>CRI</td>
<td>80/90</td>
<td>80/90</td>
<td>80/90</td>
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<tr>
<td>MacAdams Ellipses</td>
<td>2-step</td>
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<td>Premium Options</td>
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<tr>
<td>Output (LMS, Max)²</td>
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<tr>
<td>Wattage (W, Max)</td>
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<tr>
<td>Efficacy (LPW)</td>
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<td>79</td>
<td>77</td>
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<td>Warm Dim Output</td>
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<tr>
<td>Warm Dim Efficacy</td>
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<tr>
<td>Beam Spread Options</td>
<td>20, 30, 40, 60</td>
<td>Lambertian Distribution</td>
<td>Asymmetric Distribution</td>
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<tr>
<td>Input Voltage</td>
<td>120V or UNV</td>
<td>120V or UNV</td>
<td>120V or UNV</td>
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<td>Dimming/Drivers³</td>
<td>Phase 1%, 0-10V 5%</td>
<td>Phase 1%, 0-10V 5%</td>
<td>Phase 1%, 0-10V 5%</td>
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<td>Ceiling Cutout</td>
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<td>5.00” x 5.00”</td>
<td>5.00” x 5.00”</td>
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<td>5.00” x 5.00”</td>
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<td>Flanged Trim Size</td>
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<td>Trim Aperture Size</td>
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<td>Trim Appearance</td>
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<td>Flanged, Flangeless</td>
<td>Flanged, Flangeless</td>
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<tr>
<td>Trim Colors</td>
<td>White, Black</td>
<td>White, Black</td>
<td>White, Black</td>
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<tr>
<td>Max Tilt Angle</td>
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<tr>
<td>Tool-Free Aim/Lock</td>
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<tr>
<td>Rotation</td>
<td>360°</td>
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<tr>
<td>High-Low LED Adjustable</td>
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<tr>
<td>Collar Adjustment</td>
<td>-</td>
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</tbody>
</table>

Light modules and housings sold separately. Data in chart reflects 3000K/80CRI values unless noted.
1 Visit techlighting.com for dimmer compatibility.
2 For lower output options, please refer to techlighting.com.
3 Adjustable spot accepts up to two optical lenses.
BELOW CEILING AESTHETIC

ELEMENT Multiples offer a variety of different below-the-ceiling aesthetics. Multiples Open allows to mix and match the Adjustable Spot, General Illumination, and Wall Wash modules. Multiples Trimmed offers round and square apertures. Both are available flanged or flangeless and designed to conceal the housing’s interior to ensure a clean appearance.

OPEN FLANGELESS

Multiples Open Flangeless design offers three interchangeable LED light module options: General Illumination, Wall Wash and Adjustable Spot. Modules are sold separately and can be mixed and matched for ultimate flexibility and customization options.

- Available in black and white

TRIMMED FLANGELESS

A one-piece metal trim covers all spot module seams with a flangeless (mud-in) appearance that is flush with the ceiling. Trimmed apertures are 30% smaller than Open apertures. Available round or square.

- Available in black and white

OPEN FLANGED

Open spot design where individual module seams are visible with a finished, flanged appearance that overlaps ceiling cut-out. Module options include: Adjustable Spot, General Illumination and Wall Wash.

- Available in black and white

TRIMMED FLANGED

A one-piece metal trim covers all spot module seams with a finished, flanged appearance that overlaps ceiling cut-out.

- Available in black and white
REDEFINING MULTIPLES
CREATIVE SOLUTIONS TO AESTHETIC CHALLENGES

ELEMENT LED Multiples redefine and elevate the recessed multiples category with meticulous design and engineering. While other multiples can be bulky with visible hardware and electrical components, ELEMENT LED Multiples present a beautiful and uncommonly smooth appearance. Smart design yields a surface completely free of fasteners for a sleek look, even without trims.

1X1 1X2 1X3 1X4

ADJUSTABLE SPOT MODULE

Innovative adjustable mechanism allows full 35° tilt and 360° rotation at an infinite number of intervals in-between. Center beam candle power is maintained through the full 35° tilt range to maximize output.

Trimmed Module
Open Module

Quick connectors and thumb screws provide ease of servicing after installation

Patented, easy to use, tool-free adjustment mechanism requires only your hand to release, aim and lock in place

Mounting tabs for secure, tight installation

Trimmed Mounting Tab
Open Mounting Tab
SNAP-IN LIGHT MODULES

Modules are installed individually into the Multiples housings. Housing adjusts vertically after mounting to joists and ceiling installation to ensure modules and trims are properly flush. Modules can be switched or replaced after installation.

TRIMMED

Trimmed modules snap firmly into place within the Multiples housing. Trimmed modules are notched to accept flanged or flangeless trims for a snug, seamless fit. Trimmed options are available as adjustable spot modules. Offered in round and square apertures and in black and white finishes.

Open Adjustable Spot, General Illumination, or Wall Wash light modules snap firmly into place without any visible fasteners and present a clean look that does not reveal any of the housing’s internal structure. Mud plate for flangeless installation or flanged trim is attached directly to the housing.

AVAILABLE OPTIONS:

Open Adjustable
General Illumination
Wall Wash

Open Modules
(snap-in installation shown)

Trimmed Modules
(shown without trim)

Trimmed Modules
(shown with trim)
2" LED Adjustable Downlights (round/flangeless/bevel/white)
Ceiling: 1x4 Multiples (open, flangeless/white) | Island: SoCo Line-voltage Pendant
3” LED Adjustable Downlights (round/flanged/flat/white)
Private Residence by: Mosaic Architects + Interiors | Boulder, CO
Architect: Melissa Livingston | Lighting Designer: 186 Lighting Group | Photography: Jim Bartsch

techlighting.com
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