

WHY ELEMENT?

A GUIDE TO ELEMENT ARCHITECTURAL RECESSED DOWNLIGHTS





3" LED Dual Adjustable Downlights (square/flangeless/bevel/white) | 3" LED Adjustable Downlights (square/flangeless/bevel/white)
Private Residence by: dSpace Studio | Chicago, IL | Architects: Kevin Toukouridis 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.

MULTIPLE INSTALLATION OPTIONS



New Construction



Special Application
New Construction

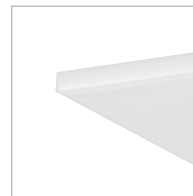


Remodel

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.

REFINED TRIM APPEARANCE



Die-Cast Aluminum

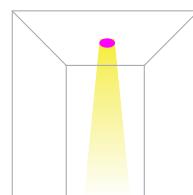


Cold-Rolled Steel
(Multiples/BYOM only)

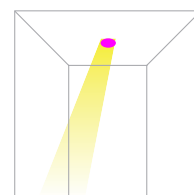
BELOW THE CEILING MATTERS

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.

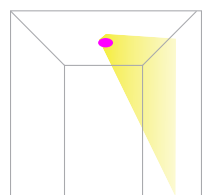
MULTIPLE APPLICATION STYLES



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

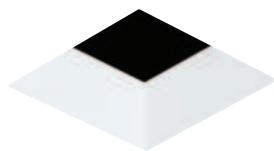


2"

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



3"

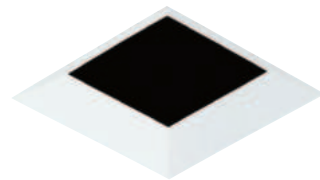
Small aperture downlights offer full adjustability and unique high-low lamp positioning (patented), high performance LED option packages. Available in LED or Halogen platforms.

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



4"

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

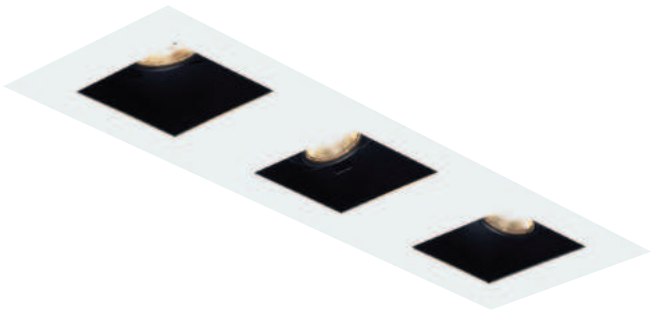
LED

- Adjustable
- Low-Profile Adjustable
- Fixed
- Wall Wash

TABLE OF CONTENTS

6-7	Specification Summary	24-27	Multiples
8-23	Downlight Features & Benefits	28-31	Applications

MULTIPLES

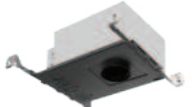
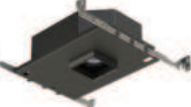


Redefining and elevating the recessed multiples category with minimalist design and meticulous engineering. While other multiples can be bulky with visible hardware and electrical components, ELEMENT Multiples present a beautiful and uniquely-smooth appearance.

LED

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

SPECIFICATION CHART

		ENTRA		ELEMENT 2"	ELEMENT 3"	
		LOW-PROFILE LOW-OUTPUT	HIGH-OUTPUT	ADJUSTABLE	LOW-PROFILE FIXED	LOW-PROFILE ADJUSTABLE
						
HOUSING	STANDARD LEAD TIME	24 hours	24 hours	5 days	24 hours (select SKUs) 5 days	24 hours (select SKUs) 5 days
	HEIGHT	3.5"	5.4"	5.3"	4.0"	4.0"
	WIDTH	7.3"	8.8"	10.0"	7.0"	11.5"
	LENGTH	12.2"	12.3"	12.0"	12.0"	17.5"
	HOUSING VOLUME	312 in ³	584 in ³	636 in ³	336 in ³	805 in ³
	MAX CEILING THICKNESS	1"	1"	2"	2.5"	2.5"
	EM OPTION	-	-	-	-	-
PERFORMANCE	CCT	2700K/3000K/ 3500K/4000K	2700K/3000K/ 3500K/4000K	2700K/3000K/3500K	2700K/3000K/3500K	2700K/3000K/3500K
	CCT WARM DIM	3000K - 1800K	3000K - 1800K	3000K - 1800K	3000K - 1800K	3000K - 1800K
	CRI	90	90	80/90	80/90	80/90
	MACADAMS ELIPSES	3-step	3-step	2-step	2-step	2-step
	PREMIUM OPTIONS	-	-	-	-	-
	OUTPUT (LMS, MAX) ¹	980	1311	1500	1800	1800
	WATTAGE (W, MAX)	12	18	17	17	17
	EFFICACY (LPW)	82	73	88	106	106
	WARM DIM OUTPUT	715	925	850	1320	1320
	WARM DIM EFFICACY	59	49	71	78	78
	BEAM SPREAD OPTIONS	20, 40, 65	20, 40, 65	20, 30, 40, 60	10, 18, 25, 40, 60	10, 18, 25, 40, 60
DRIVER	INPUT VOLTAGE	UNV	UNV	120V or UNV	120V or UNV	120V or UNV
	DIMMING/DRIVERS	Phase 5%, 0-10 5%	Phase 5%, 0-10 5%	Phase 1%, 0-10 5%	Phase 1%, 0-10 5%	Phase 1%, 0-10 5%
TRIM	CEILING CUTOUT	4.00"	4.00"	2.75"	3.87"	3.87"
	FLANGELESS TRIM SIZE	3.50"	3.50"	2.50"	3.25"	3.25"
	FLANGED TRIM SIZE	4.60"	4.60"	3.10"	4.30"	4.30"
	TRIM APERTURE SIZE	2.00"	2.00"	1.40"	1.75"	1.75"
	CEILING APPEARANCE	Flanged, Flangeless	Flanged, Flangeless	Flanged, Flangeless	Flanged, Flangeless, Flangeless Wood	Flanged, Flangeless, Flangeless Wood
	TRIM COLORS	White, Silver	White, Silver	White, Black, Antique Bronze, Satin Nickel	White, Black, Antique Bronze, Satin Nickel	White, Black, Antique Bronze, Satin Nickel
	MAX TILT ANGLE	30°	30°	45°	-	40°
FUNCTIONALITY	TOOL-FREE AIM/LOCK	-	-	-	-	-
	ROTATION	359°	359°	359°	-	361°
	HIGH-LOW LED ADJUSTABLE	-	-	High-low	-	-
	COLLAR ADJUSTMENT	--	-	45°	-	-

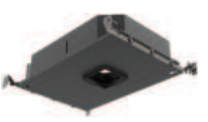
All values in chart are applicable for IC Airtight and Chicago Plenum.

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.

¹For lower output options, please refer to techlighting.com.

²ELEMENT 4" 4000 lumens available in non-IC only.

		ELEMENT 3"		ELEMENT 4"	
		NEXT GEN (FIXED/ADJ./WW)	ULTRA SHALLOW FIXED	LOW-PROFILE ADJUSTABLE	NEXT GEN (FIXED/ADJ./WW)
					
HOUSING	STANDARD LEAD TIME	5 days	5 days	5 days	5 days
	HEIGHT	4.0"	2.0"	4.1"	5.5"
	WIDTH	9.5"	11.5"	13.8"	11.5"
	LENGTH	12.5"	17.5"	20.0"	14.5"
	HOUSING VOLUME	475 in ³	403 in ³	1132 in ³	917 in ³
	MAX CEILING THICKNESS	2.5"	2.5"	2.5"	2.5"
PERFORMANCE	EM OPTION	EM larger housing	-	EM larger housing	EM larger housing
	CCT	2700K/3000K/3500K	2700K/3000K/3500K	2700K/3000K/3500K	2700K/3000K/3500K
	CCT WARM DIM	3000K - 1800K	3000K - 1800K	3000K - 1800K	3000K - 1800K
	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) ¹	1800	1800	2900	4000 ²
	WATTAGE (W, MAX)	17	17	29	36
	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
DRIVER	INPUT VOLTAGE	120V or UNV	120V or UNV	120V or 277V	120V or 277V
	DIMMING/DRIVERS	Phase 1%, 0-10 5% eldoLED/Lutron/DALI 0.1% - 1%	Phase 1%, 0-10 5%	Phase 1%, 0-10 5%	Phase 1%, 0-10 5% eldoLED/Lutron/DALI 0.1% - 1%
TRIM	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°
FUNCTIONALITY	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°

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

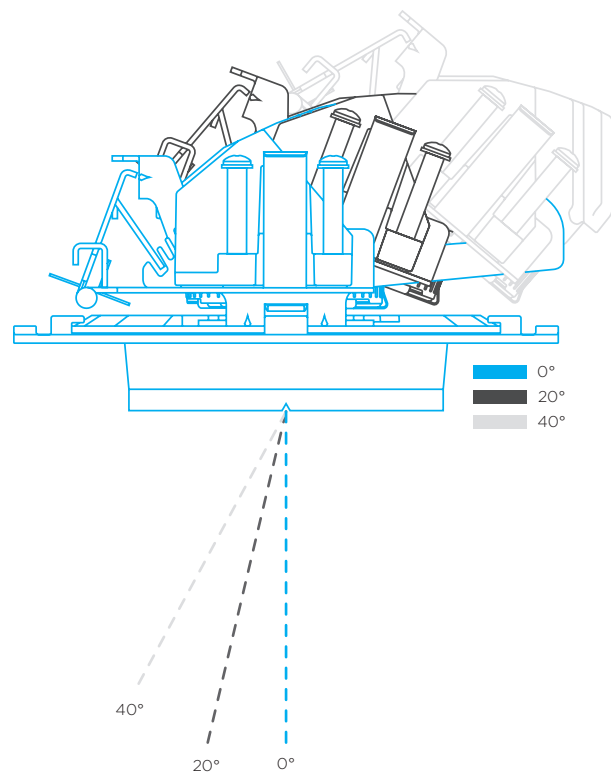
TOOL-FREE AIMING, POSITIONING AND LOCKING

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



0° Tilt



40° 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



Tool-Free Locking



361° Rotation

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



Low-Position



High-Position

Note: All images represent ELEMENT Next Generation 3" Adjustable Downlight

TECHNOLOGY

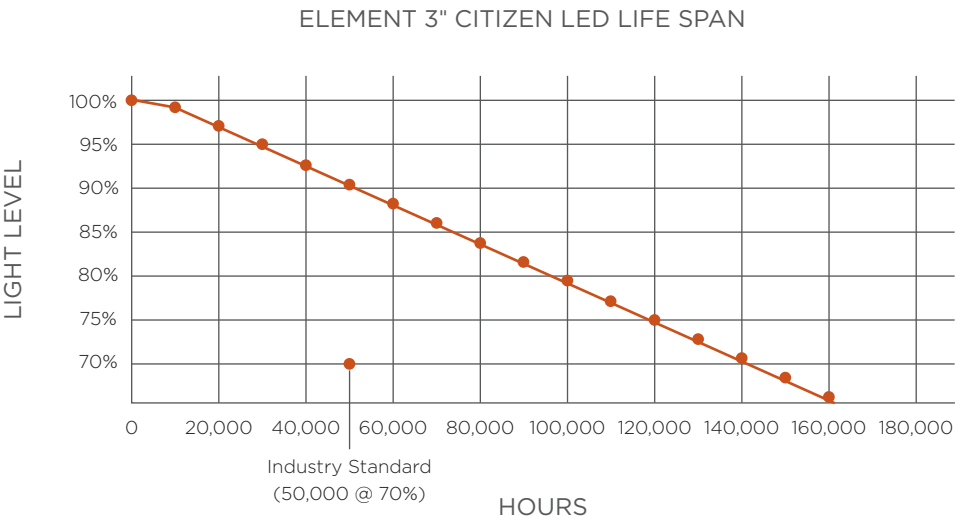
TO DELIVER PERFORMANCE & CHOICE

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.





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.

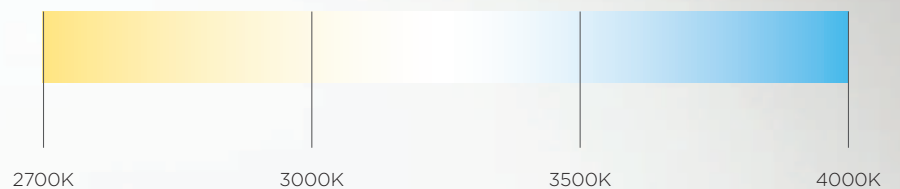


Accurate colors with maximum efficacy

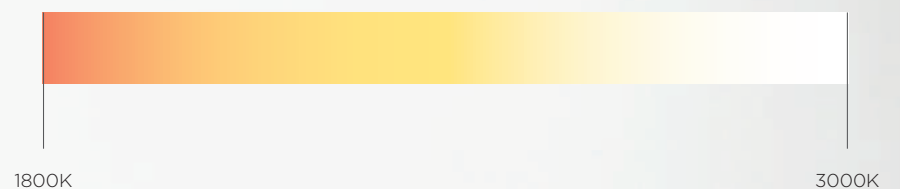


Color rendering for more demanding applications

STATIC WHITE



WARM DIM



Color rendering for more demanding applications

LED LAMPING

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

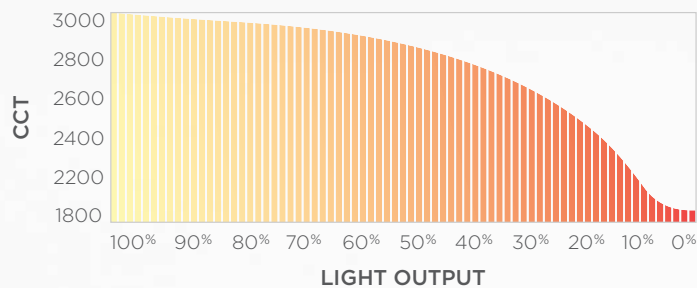
	CITIZEN							CITIZEN WARM DIM					XICATO				
	2"		3"		4"			2"		3"		4"		3"		4"	
	HIGH	LOW	HIGH	LOW	MAX	HIGH	LOW	LOW	HIGH	LOW	HIGH	LOW	STANDARD SERIES	ARTIST SERIES	STANDARD SERIES	ARTIST SERIES	
DELIVERED LUMENS	1500/1250	1163/930	1800/1450	1319/1124	4000/3400	2900/2465	1800/1450	850	1300	900	2374	1300	1129	945	2195	1927	
WATTS	17	12.4	17	12	35	29	17	12	17	12	31	17	15	15	24	26	
EFFICACY	88/73	93/75	106/82	110/94	112/96	100/85	116/93	71	76	75	74	76	78	60	89	74	
CRI	80+/90+							90+					80+	95+	80+	95+	
COLOR CONSISTENCY	2-Step							3-step					1x2 step				
CBCP	20° - 5136 30° - 4644 40° - 3050 60° - 1764		10°-19,414 15°-5848 25°-5416 40°-3369 60°-2305		10°-19,414 (low) 18°-10,240 25°-8634 40°-5513 60°-3405			20° - 5136 30° - 4644 40° - 3050 60° - 1764		15°-N/A 25°-N/A 40°-1622		18°-N/A 25°-N/A 40°-2381		21°-3184 43°-1644 60°-1014		21°-5306 43°-2740 60°-1690	
CCT OPTIONS	2700K, 3000K or 3500K							3000K-1800K Warm Dim					2700K, 3000K or 3500K**				
DIMMING*	Triac, ELV (down to 1%) 0-10V (down to 5%) Lutron Hi-lume Ecosystem Fade-To-Black (down to 0.1%) or PWM (down to 1%) eldoLED 0-10V or Dali (down to 0.1%)																

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

LED
(2700K, 3000K, 3500K)

LED HOLDER

OPTIC CAGE

OPTIC
10°, 15°, 25°, 40°,
60°, interchangeable

OPTIC HOLDER

LENS
ACCESSORIES*

LENS SPRING
(can accept up to
two lenses)

3" CITIZEN
LED MODULE

*Lens accessories only available for Citizen Module

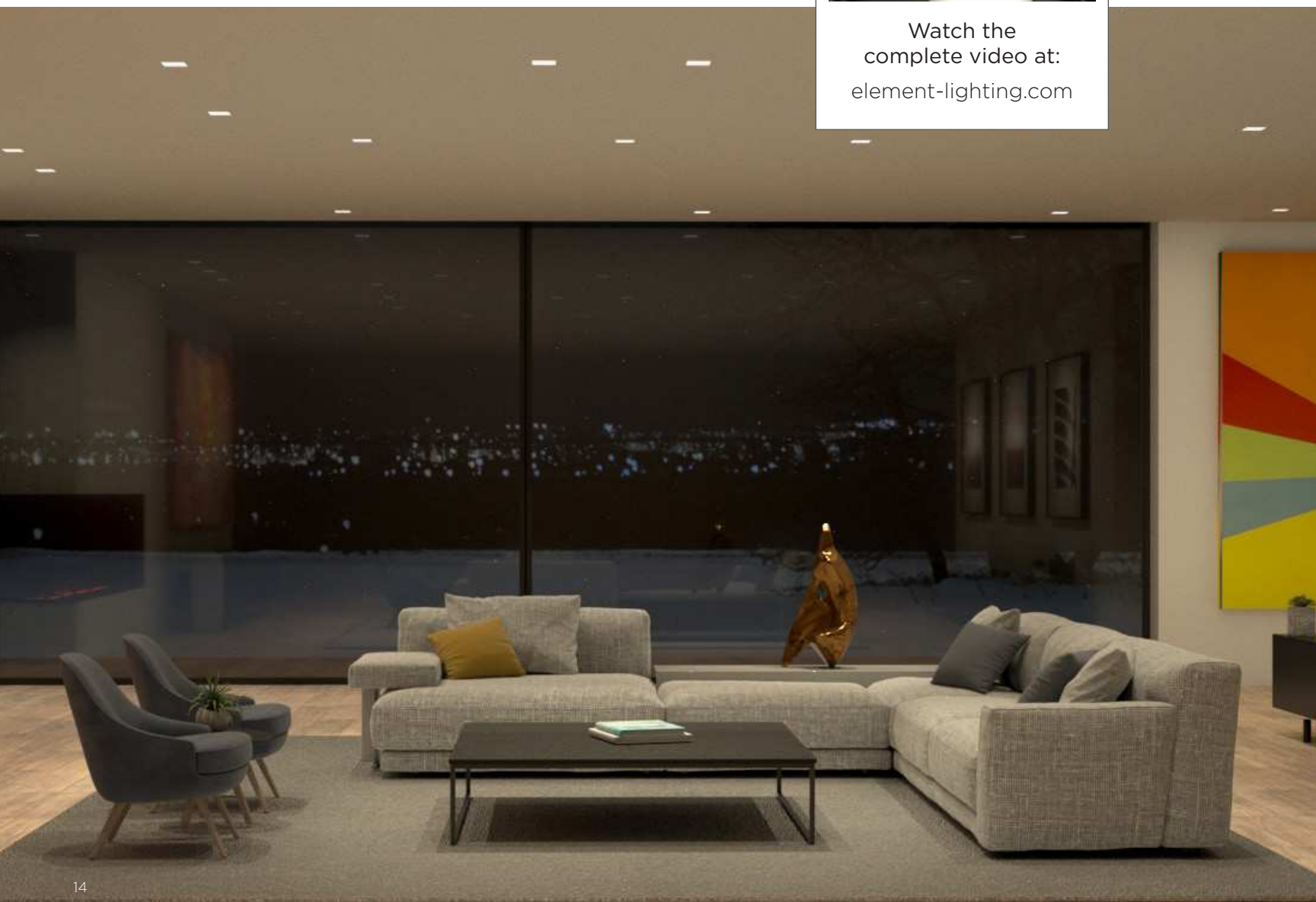
DIMMING OPTIONS

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

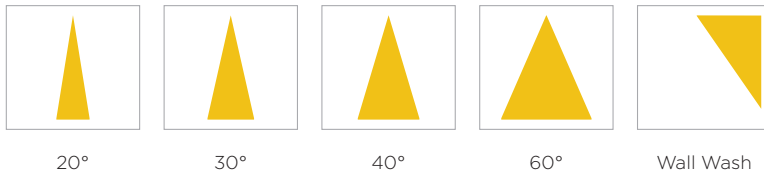
ELEMENT typically utilizes precision Total Internal Reflection (TIR) optics which capitalize on characteristics unique to LEDs. Custom designed precision TIR optics were developed to optimize light performance and beam control by directing light from the Light Emitting Surface (LES) to the TIR's internal 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.



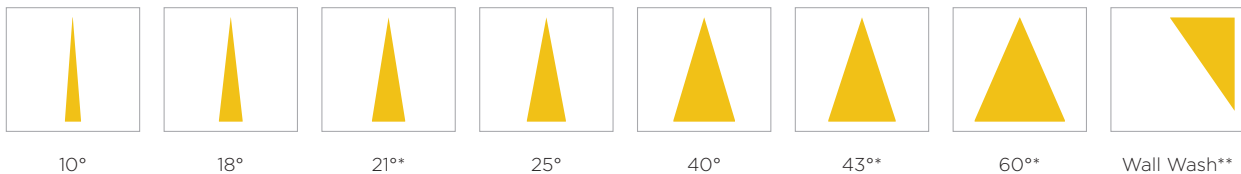
Custom designed ELEMENT TIR optics create exceptionally well-defined precision beams of light using micro optic "pillows" unique to ELEMENT.

BEAM SPREADS

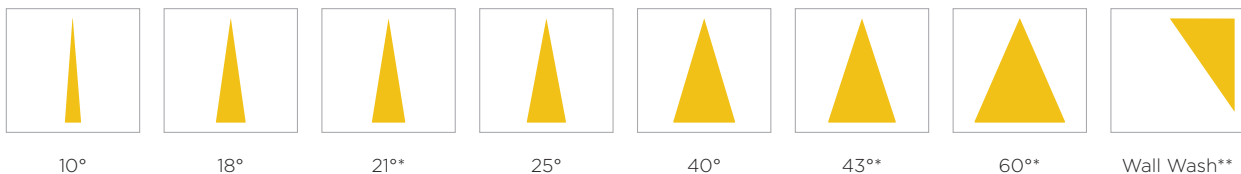
2" DOWNLIGHTS



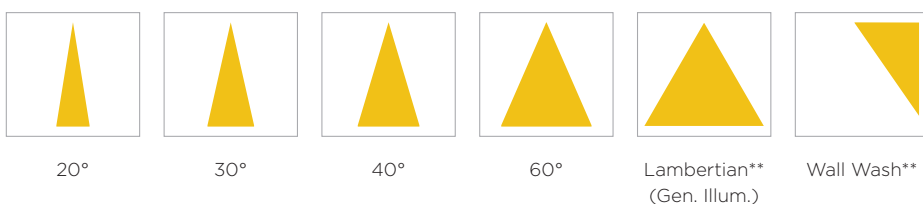
3" DOWNLIGHTS



4" DOWNLIGHTS



MULTIPLES



*Utilize reflector optical controls for Xicato modules.

**Trim mounted assembly.

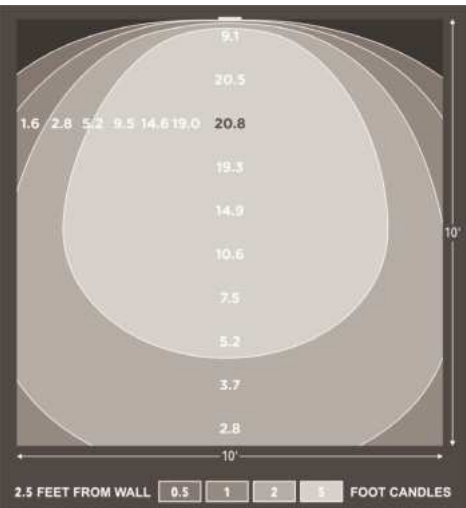
BEST-IN-CLASS WALL WASH

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:

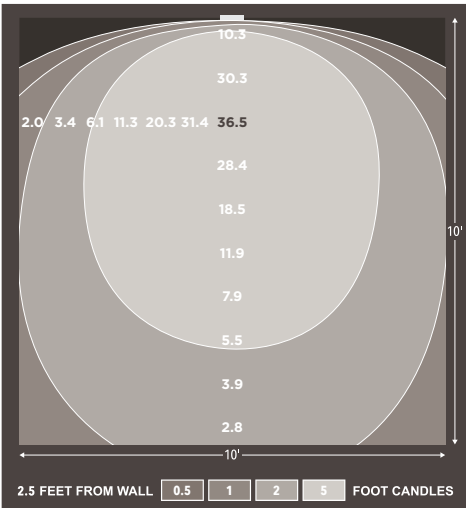
- A trim-mounted assembly that can also be used to retrofit ELEMENT adjustable and fixed downlight housings
- Delivered Lumens: 1340 lms/17 watts; 21 peak fc (mounted 2.5 ft from wall)
- 79 efficacy (l/w)
- Max Vertical Luminance Ratio: 14 (2.5 ft set-back, 10 ft ceiling)
- Max Horizontal Luminance Ratio: 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



E3 Next Generation

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



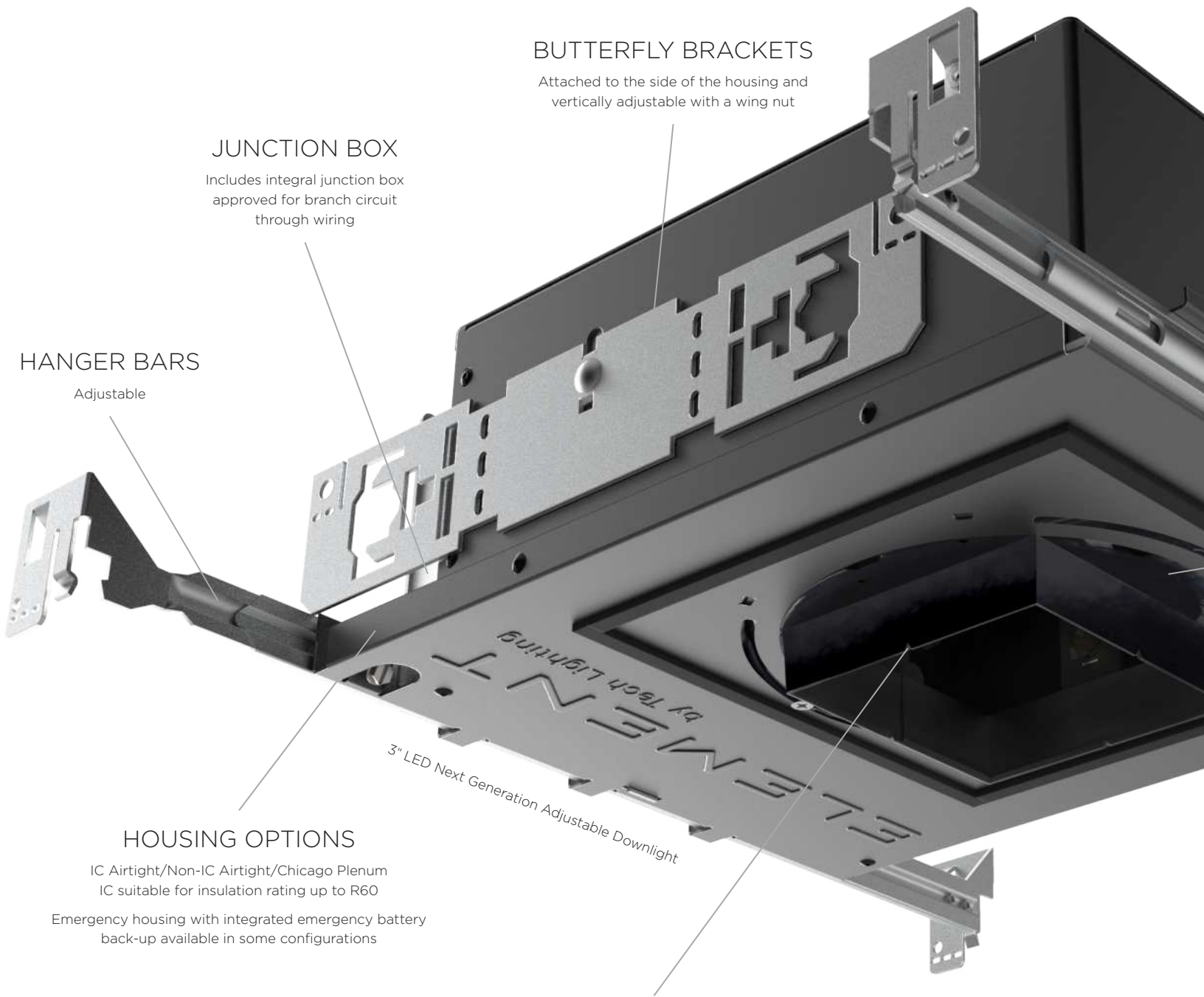
Multiples



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.



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

HANGER BARS

Adjustable

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
ELEMENT
by Tech Lighting

HOUSING HEIGHTS

3" HALOGEN ADJUSTABLE IC	9"
2" AND 4" LED ADJUSTABLE IC	5.3"
3" LED ADJUSTABLE AND LOW-PROFILE IC	4"
3" LED LOW-PROFILE FIXED IC	3.4"
3" LED ULTRA-SHALLOW FIXED IC	2"

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)
- 361° rotation without dead spots



3" Remodel Adjustable Downlight

FINISH

Durable matte black powder coat finish
reduces internal glare

COLLAR

45° alignment rotation

MATERIAL

Heavy gauge cold-rolled steel



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.

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.



Silver Reflector



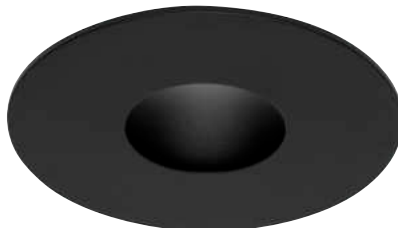
Black Reflector



Gold Reflector



Silver Reflector
(shown trim-mounted)



Black Reflector
(shown from below the ceiling)



Gold Reflector
(shown from below the ceiling)

TRIMS

TO ENSURE EVERY DETAIL IS PERFECTLY EXECUTED

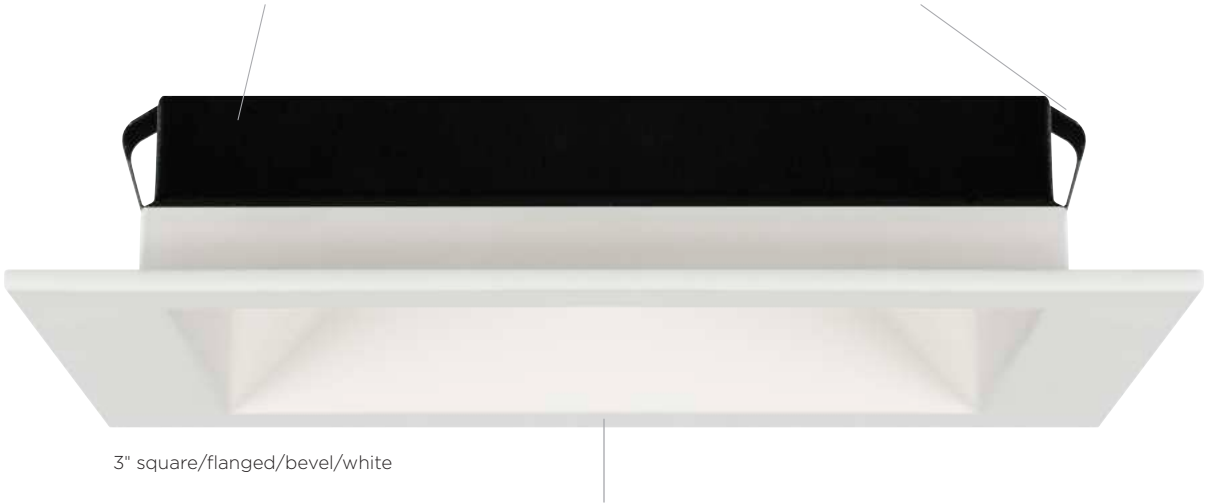
Though a trim may be considered the simplest aspect of the downlight's engineering, it plays a significant role in the "at the ceiling" experience of ELEMENT products. How the ceiling is finished at the downlight and how the light moves through the aperture are critically affected by the trim design. 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)

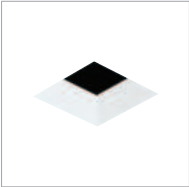
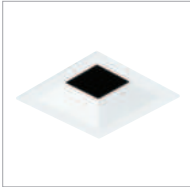
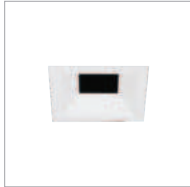
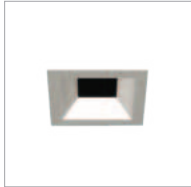
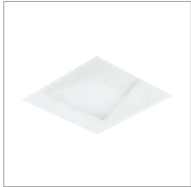
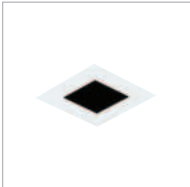
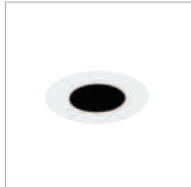
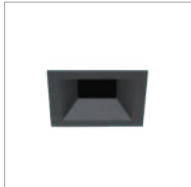
PRECISION TENSION SPRINGS

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

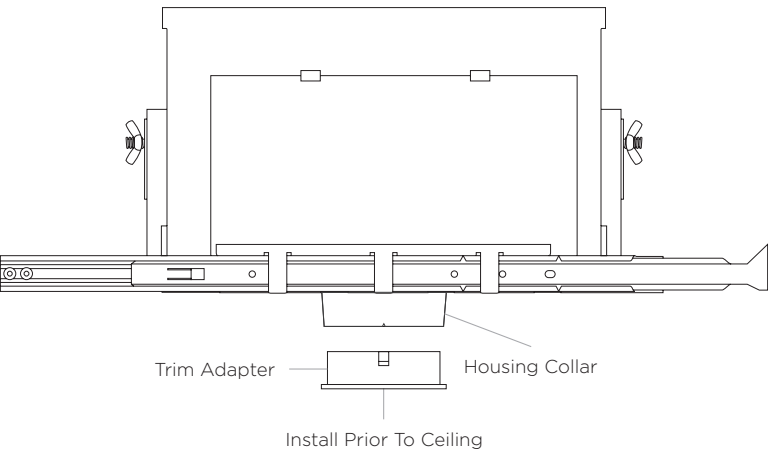
SHAPE	CEILING APPEARANCE	STYLE	FINISH		WALL WASH
					
Square	Flanged	Bevel	White	Satin Nickel	Square
					
Round	Flangeless	Flat	Antique Bronze	Black	Round

3" series images shown

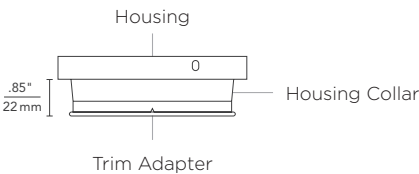
FLANGELESS WOOD CEILING

ADJUSTABLE TRIM ADAPTER

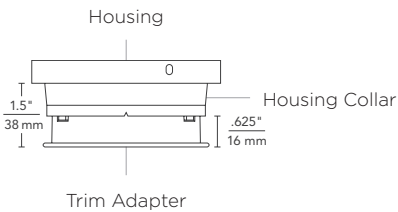
ELEMENT 3" wood ceiling housings (designated by "WC" in the ordering grid) ship with an adjustable trim adapter that inserts into the housing aperture and accommodates standard ELEMENT 3" flangeless trims for a truly flangeless, flush ceiling appearance in special applications such as wood or stone installation.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



ADAPTER FLUSH



ADAPTER EXTENDED



ROUND



Flangeless Bevel
Antique Bronze



Flangeless Flat
Antique Bronze



Wall Wash
Satin Nickel



Wall Wash
Antique Bronze



Wall Wash (Lensed)
Satin Nickel



Wall Wash (Lensed)
Antique Bronze

SQUARE



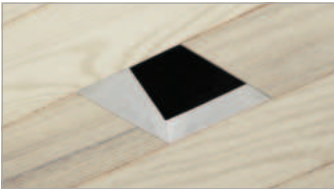
Flangeless Bevel
Satin Nickel



Flangeless Flat
Satin Nickel



Wall Wash
Black



Wall Wash
Satin Nickel



Wall Wash (Lensed)
White



Wall Wash (Lensed)
White



3" LED Adjustable Downlights (round/flanged/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

		ADJUSTABLE ³	GENERAL ILLUMINATION	WALL WASH
		1 X 1	1 X1	1 X 1
				
	STANDARD LEAD TIME	5 days	5 days	5 days
HOUSING	HEIGHT	5.8"	5.8"	5.8"
	WIDTH	9.9"	9.9"	9.9"
	LENGTH	8.7"	8.7"	8.7"
	HOUSING VOLUME	500 in ³	500 in ³	500 in ³
	MAX CEILING THICKNESS	2"	2"	2"
	EM OPTION	-	-	-
PERFORMANCE	CCT	2700K/3000K/3500K	2700K/3000K/3500K	2700K/3000K/3500K
	CCT WARM DIM	3000K - 1800K	3000K - 1800K	3000K - 1800K
	CRI	80/90	80/90	80/90
	MACADAMS ELIPSES	2-step	2-step	2-step
	PREMIUM OPTIONS	-	-	-
	OUTPUT (LMS, MAX) ²	1600	1346	1315
	WATTAGE (W, MAX)	17	17	17
	EFFICACY (LPW)	94	79	77
	WARM DIM OUTPUT	TBD	TBD	TBD
	WARM DIM EFFICACY	17	17	17
	BEAM SPREAD OPTIONS	20, 30, 40, 60	Lambertian Distribution	Asymmetric Distribution
DRIVER	INPUT VOLTAGE	120V or UNV	120V or UNV	120V or UNV
	DIMMING/DRIVERS ¹	Phase 1%, 0-10V 5%	Phase 1%, 0-10V 5%	Phase 1%, 0-10V 5%
TRIM	CEILING CUTOUT	5.00" x 5.00"	5.00" x 5.00"	5.00" x 5.00"
	FLANGELESS TRIM SIZE	5.00" x 5.00"	5.00" x 5.00"	5.00" x 5.00"
	FLANGED TRIM SIZE	6.30" x 6.30"	-	-
	TRIM APERTURE SIZE	2.75"	3.85"	3.85"
	CEILING APPEARANCE	Flanged, Flangeless	Flanged, Flangeless	Flanged, Flangeless
	TRIM COLORS	White, Black	White, Black	White, Black
	MAX TILT ANGLE	35°	-	-
FUNCTIONALITY	TOOL-FREE AIM/LOCK	Tool-free	-	-
	ROTATION	360°	-	-
	HIGH-LOW LED ADJUSTABLE	-	-	-
	COLLAR ADJUSTMENT	-	-	-

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

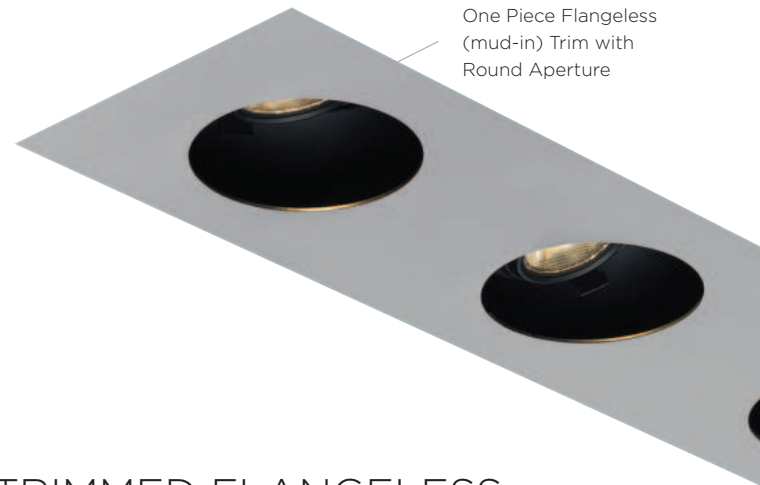


OPEN FLANGED

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

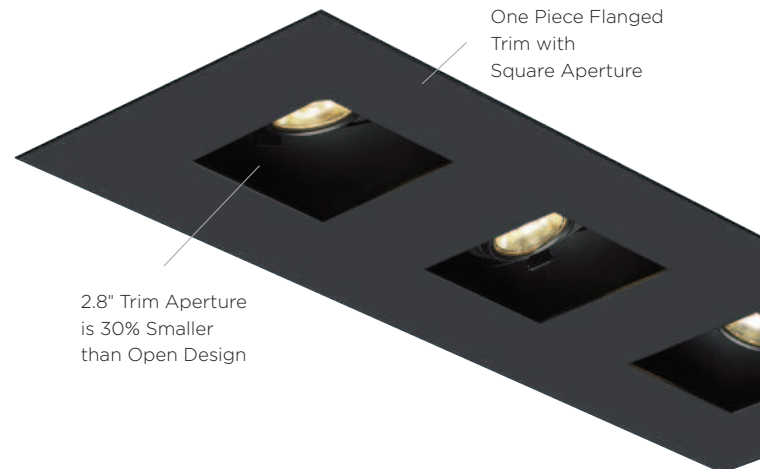


TRIMMED FLANGELESS

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



TRIMMED FLANGED

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

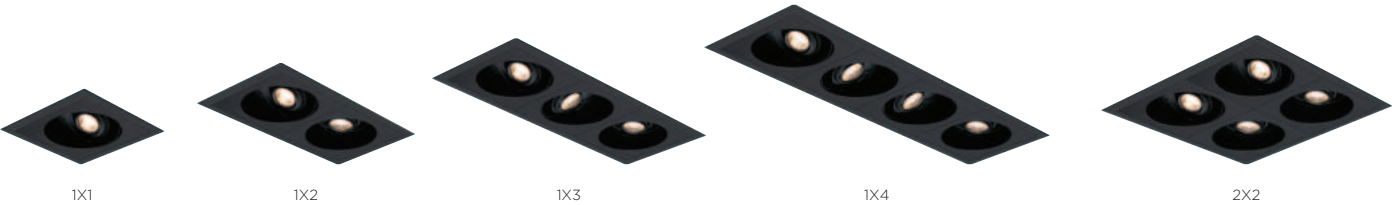


Available in black and white

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.



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.



Quick connectors and thumb screws provide ease of servicing after installation



Quick Connector Thumb Screws

Mounting tabs for secure, tight installation



Mounting Tab Trimmed Mounting Tab Open

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



Easy Adjust Lock Tab

SNAP-IN LIGHT MODULES

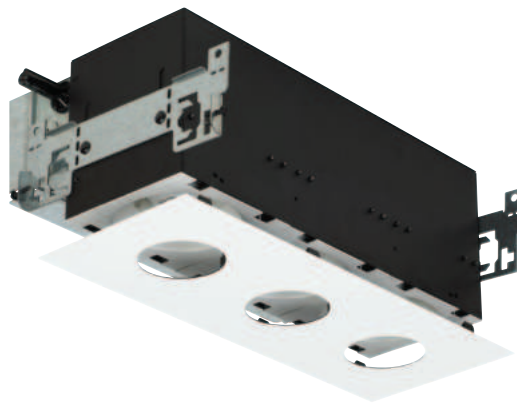
Modules are installed individually into the Multiples housings. Housing adjusts vertically after mounting to joists and ceiling installation to ensure modules and trims are properly flush. Modules can be switched or replaced after installation.

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.



Trimmed Modules
(shown without trim)



Trimmed Modules
(shown with trim)

OPEN

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)



Open Modules



2" LED Adjustable Downlights (round/flangeless/bevel/white)



3" LED Adjustable Downlights (square/flanged/bevel/satin nickel)
© Astula/Raul J. Garcia, 2015



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

TO LEARN MORE, VISIT US AT TECHLIGHTING.COM

- Specification Details
- Spec Sheets
- IES Files
- Revit Files
- Application Images
- Technical Support and Customer Service Contact
- Locate Your Local Tech Lighting Sales Representative
at techlighting.com/HowToBuy



7400 Linder Ave.
Skokie, IL 60077

T 847.410.4400
F 847.410.4500

techlighting.com

Quotes Department: 847.410.4602
Technical Support: 847.410.4400

921ELEBRO19

©2019 Tech Lighting LLC

COVER IMAGE:

3" LED Adjustable Downlights
(round/flangeless/bevel/white)

Architect: WRNS
Lighting Designer: Pritchard Peck
Photographer: Mark Mahaney