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Precision Through Innovation

LED 3" Shallow Fixed IC Downlight

■ DESCRIPTION

Novation® Shallow Fixed Housing utilizes our proprietary water cooling technology to provide up to 30W of power in a small profile.

23 W Output Performance

Color Temperature	2700K		3000K		3500K		4000K	
Color Rendering Index	90+ CRI	95+ CRI	90+ CRI	95+ CRI	90+ CRI	95+ CRI	90+ CRI	95+ CRI
Source Lumens (lm)	1900	1822	2120	1852	2310	1885	2450	--
Delivered Lumens (lm) (60° Beam Spread)	1456	1397	1625	1420	1771	1445	1878	--
Delivered Lumens (lm) (45° Beam Spread)	1328	1274	1482	1295	1615	1318	1713	--
Delivered Lumens (lm) (38° Beam Spread)	1349	1293	1505	1315	1640	1338	1739	--
Delivered Lumens (lm) (24° Beam Spread)	1274	1221	1421	1241	1548	1264	1642	--
Delivered Lumens (lm) (12° Beam Spread)	1286	1233	1435	1254	1563	1276	1658	--

For wattage options other than 23W please use the multiplier chart to calculate the output performance
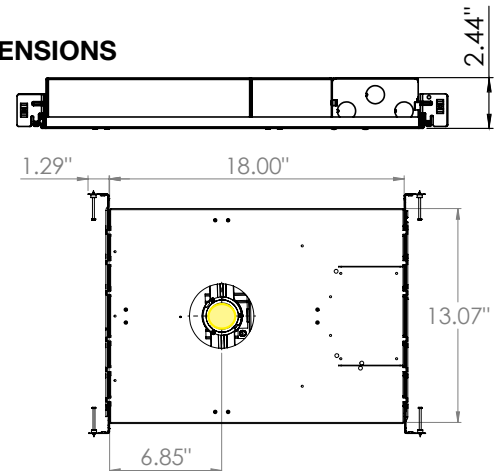
Wattage	30	23W	14W	10W
Multiplier	1.3	1	0.61	0.43

■ DIMENSIONS

2.44"

1.29"   18.00"

13.07"

6.85"

■ ORDERING CODE

Example: **NVTN-3-SH-23W-30K-3G-60D-ST3-AT-CL-MI-HBAR-COLR**

Product	Watts	Color Temperature	Chip Type	CRI	Version	Beam Spread Lens	Driver	Housing
NVTN-3-SH					**3G**			
NVTN-3-SH	**10W** 10 Watts **14W** 14 Watts **23W** 23 Watts **30W** 30 Watts **Custom Wattage** (Max 30W)	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **18K30K** Dim to Warm (23W-1430 Lm)	**ST** Standard (Default) **NB** Narrow Beam * *(For 15D and 24D beam spread lens.) Not applicable for 18K30K color temp	**90C** 90CRI (Default) **95C** 95CRI* *Not applicable for 18K30K color temp	3G 3rd Gen	**60D** 60° (Default) **45D** 45° **38D** 38° **24D** 24° **15D** 15°	**ST3:** For wattages range 14 and 23W **ST3L** For wattages below 14W **ST3H** For wattages above 23W **LPH** [4] Lutron Hi-Lume 1%, Fade-to-Black EcoSystem, 120-277V **LPL** [4] Lutron Hi-Lume 0.1% Premier, Fade-to-Black EcoSystem, 120-277V **DMX DALI** For wattages below 12W **Note:** All ST3 drivers Tri Mode and dims to 1%: 0-10V (120-277V) Triac/ELV (120V only)	**AT** Airtight (Default) **CP** ChicagoPlenum

Accessories	Optional	Nailer Bars	Trim Adapter
CL Clear Lens **LI** Linear Lens **PR** Prismatic Lens **SA** Sanded Lens **SO** Softening Lens **MB** Micro Louver Black **MA** Micro Louver Aluminum **Note:** 5/8" sheetrock can accept 1 accessory, taller ceilings can accept 2. These are all optional accesories. A Solite Lens is automatically included with each fixture.	**MI** Micro Inverter * **CB** C-Channel bars with butterfly mouting brackets for acoustical ceiling, Nailer bars included. *Micro inverter requires access above ceiling, otherwise it must be installed remotely. **Note:** Standard nailer bars are **not** to be used in ACT Ceilings.	**HBAR** Standard Nailer Bars **HBAR-V2** Thicker Nailer Bars (for use in ACT ceilings)	**COLR*** For use with Series AS (trimmed) trims **ADPT-SQ-UNV-3G** For use with series BS (trimless) square trims in sheetrock **ADPT-SQ-HARD-3G** For use with series BS (trimless) square trims in wood(millwork)/stone celings **ADPT-RD-UNV-3G** For use with series BS (trimless) round trims in sheetrock **ADPT-RD-HARD-3G** For use with series BS (trimless) round trims in wood (millwork)/stone celings * Consult factory for use in celing thicker than 1"

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Note: 1. 12°, 24° optics have a unique LED module not available for field changable. 12°, 24° optics are not available for Dim to Warm.
2. Not available for 1/2" sheetrock, 5/8" sheetrock can accept 1 accessory, taller ceilings can accept 2.
3. Micro inverter requires access above ceiling, otherwise it must be installed remotely.
4. This fixture comes with a solite lens attached to the trim.

■ TRIM ORDERING CODE SELF FLANGED
Example: **NVTN-3-TRIM-AS-SQ-WH-WH-ADPT-RD-UNV-3G**

Product	Type	Outer Finish	Inner Finish
NVTN-3-TRIM-AS			
NVTN-3-TRIM-AS Self flanged trims Note: Solite Lens included on trim	**SQ** Shallow Square* **RD** Shallow Round *Uses Square lens cone	**WH** White **BK** Black **XX** Custom Powder Coating (Consult factory for colors)	**WH** White **BK** Black **SH** Shower Trim (for damp locations) **XX** Custom Powder Coating (Consult factory for colors)

■ TRIM ORDERING CODE TRIMLESS
Example: **NVTN-3-TRIM-BS-SQ-WH-ADPT-SQ-UNV-3G**

Product	Type	Inner Finish	Shower
NVTN-3-TRIM-BS Trimless trims Note: Solite Lens included on trim	**SQ** Shallow Square* **RD** Shallow Round *Uses Square lens cone	**WH** White **BK** Black **XX** Custom Powder Coating (Consult factory for colors)	**(leave blank)** For Dry/Damp Locations **SH** Shower Trim (for wet locations)

■ TRIM COMPATIBILITY

Requires round sheetrock cutout: 4.0625" Diameter

Requires square sheetrock cutout: 4.125"x4.125"
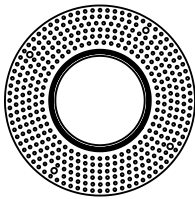
Round Adapter
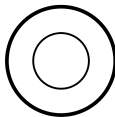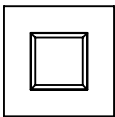
Series BS Round Trim
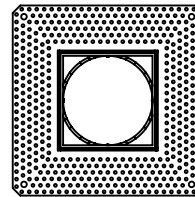
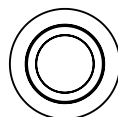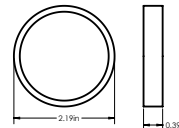Square Adapter
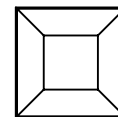
Series BS Square Trim
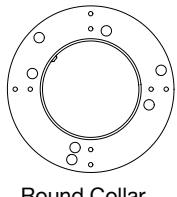
Round Collar
Note: Collars are pre installed on the fixture.

Series A Square Trim

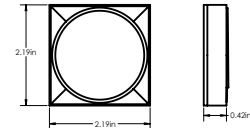Series A Round Trim

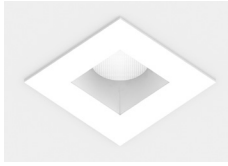Round Lens Cone
2.19in / 0.39in

Square Lens Cone
2.19in / 2.19in / 0.42in

Note: Round lens cone is pre installed on every fixture. Square lens cone is provided, and can be replaced in the field in needed.

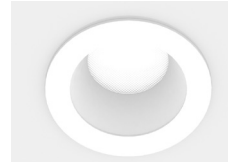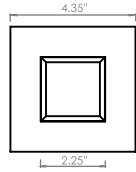File Name: NVTN-3-SH-3G SPEC B04 FEB 25, 2025

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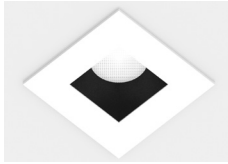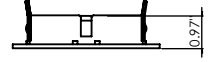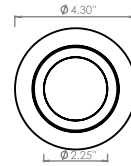info@preciseled.com

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■ TRIM OPTIONS

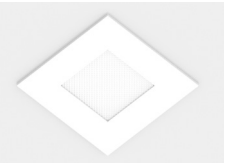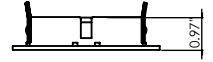### NVTN-3-TRIM-AS

NVTN-3-TRIM-AS-SQ-WH-WH

4.35"
2.25"
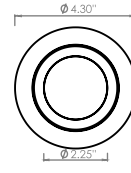0.94"

NVTN-3-TRIM-AS-RD-WH-WH

Ø 4.30"
Ø 2.25"
0.97"

NVTN-3-TRIM-AS-SQ-WH-BK

4.35"
2.25"
0.94"
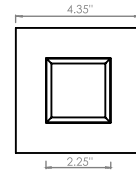
NVTN-3-TRIM-AS-RD-WH-BK

Ø 4.30"
Ø 2.25"
0.97"

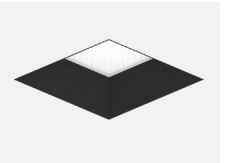NVTN-3-TRIM-AS-SQ-WH-SH

4.35"
2.25"
0.94"
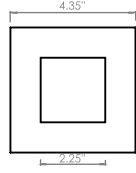
NVTN-3-TRIM-AS-RD-WH-SH

Ø 4.30"
Ø 3"
0.97"
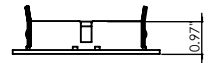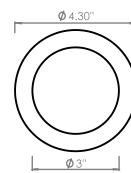
NVTN-3-TRIM-BS

NVTN-3-TRIM-BS-SQ-WH

3.94"
2"
0.96"

NVTN-3-TRIM-BS-RD-WH

Ø 3.94"
Ø 2"
0.96"

NVTN-3-TRIM-BS-SQ-BK

3.94"
2"
0.96"

NVTN-3-TRIM-BS-RD-BK

Ø 3.94"
Ø 2"
0.96"
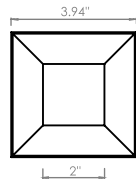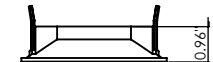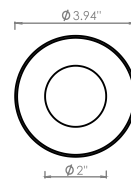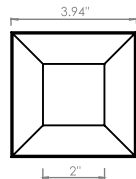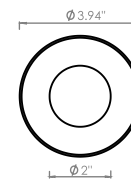
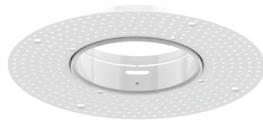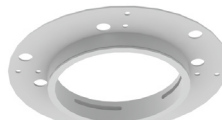## ■ TRIM ADAPTER
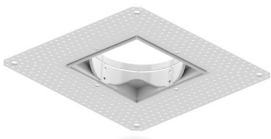
NVTN-ADPT-SQ-UNV-3G*

NVTN-ADPT-RD-UNV-3G*

NVTN-3-COLR

*Note: Upper ring to be removed in field for ceilings less than 1" height
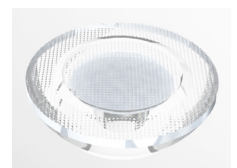
XXD Beam Spread Lens

■ OPTICS ACCESSORY
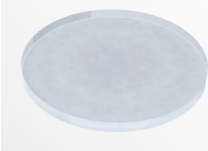
CL Clear Lens **SO** Softening Lens **PR** Prismatic Lens **SA** Sanded Lens **LI** Linear Lens **MB/MA** Micro-louver (Black or Aluminum)
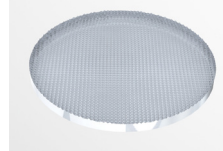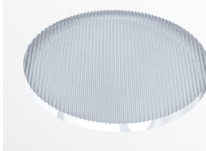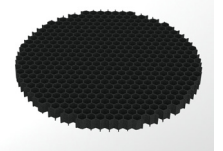
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ASSEMBLED VIEW
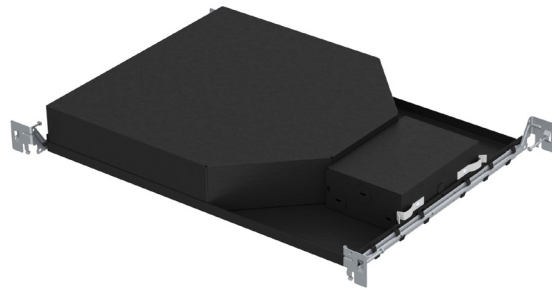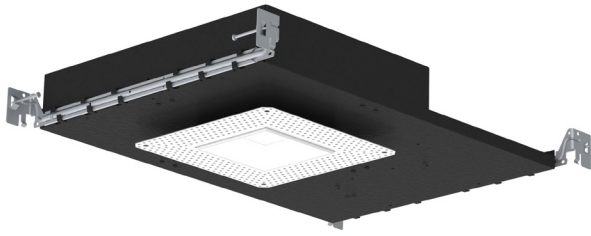
Nailer bars
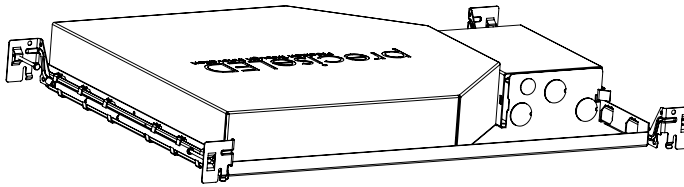
CB Bracket
(C-Channel bars with butterfly mounting brackets for acoustical ceiling)
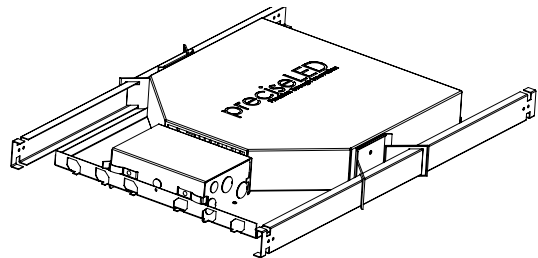
Note: Able to move fixture along C-Channel for position adjustments

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■ SPECIFICATIONS

LED SYSTEM

- LED ENGINE: CREE: 2700K, 3000K, 3500K, 4000K, LUXTECH: 18K30K dim-to-warm, field-replaceable LED module solderless replacement process
- LUMENS/WATTS: 10W, 15W, 23W, 30W See lumen output chart on Page 1
- CRI: Minimum 90 color rendering index with an option of 95 CRI
- COLOR CONSISTENCY: 2-step binning LEDs

OPTICS

Multiple Beam Spread Options Available

ELECTRICAL

- DRIVERS:
- Standard ST3 Series driver is Tri Mode and dims to 1%: for 0-10V (120-277V) and for Triac/ELV (120V only).
- LUTRON DRIVER LPH : Hi-lume EcoSystem with Soft-on, Fade-to-Black LED Driver, dim down to 1% and fade smoothly between 0%-1%.
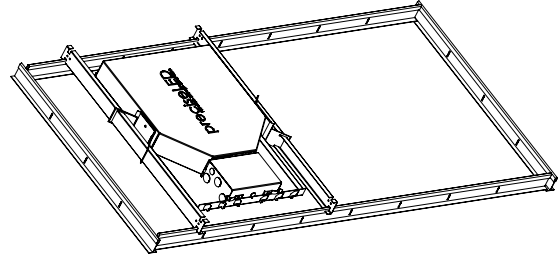- LUTRON DRIVER LPL : Hi-lume Premier EcoSystem with Soft-on, Fade-to-Black LED Driver, dim down to 0.1% and fade smoothly between 0%-0.1%
- DMX/Dali driver(120-277V)
- FEED: Standard 18-gauge/5 conductor single circuit feed. Push-in quick connectors allow ease of driver replacement.
- EMERGENCY: Remote emergency battery pack provide backup power for 90 minutes. Remote emergency test switch included.

MOUNTING

Residential grade nailer bars included with housing, fitted to short side of IC housing, extend 14" to 25" to fit different joist spacing. C-channel available with butterfly bracket for acoustical ceiling installation. Accommodates to 1/2" , 5/8", 3/4", 1.0" ceiling thickness in drywall, millwork and acoustical ceiling types.

CONSTRUCTION

- HOUSING: Heavy gauge cold rolled steel with through wire J-box
- HEAT SINK: Precision-cut extruded aluminum heat sink.
- HEAT PIPE: Six vacuum-sealed copper tubes transfer heat away from the LED to heat sink with 29 aluminum cooling fins
- TRIM: Die-cast aluminum with Solite glass
- LENS COVER: Use round lens cover for both round/square trims
- TRIM ADAPTER: Die-cast aluminum, spackle flanges are use in sheetrock/mud-in ceiling applications. Trim collar are available for flanged trim.

  #### FINISH
  - HOUSING: Standard powder-coated matte black.
  - TRIM: White, Black, Consult factory for custom powder coating finish.

LISTING/WARRANTY

- APPROVALS: UL/C-UL listed, Suitable for dry/damp/wet location. Airtight rated, meets ASTM E283 standards. Chicago Plenum housing available. IC Rated.
- WARRANTY: 5 Year Limited Warranty, Ambient temperatures at fixture location should not exceed 40° C during normal operation.
- LED LIFE > 61,000 hours at 70% lumen maintenance (L70)
- WEIGHT: 12.6lbs
- Patent No. 10174891
- Can be used to comply with Title 24/JA8 requirements (using ST3 driver and white trim with no accessories. For full list of compatible models please contact factory)
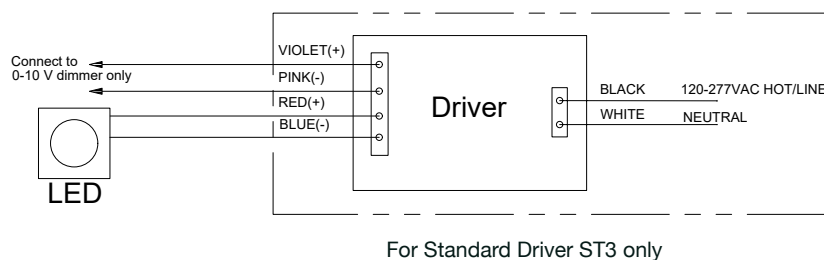
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■ DIMMER COMPATIBILITY CHART

Dimmer Manufacturer	Product	Part Number	Dimming Range	Qty Fixture Per Control	Dimming Type
Standard Driver ST3					
120V/277V					
Lutron	Diva	DVTV*/DVSTV/ DVSCSTV	1%-100%	1-14	0-10 V
Lutron	Nova	NFTV*	1%-100%	1-14	0-10 V
120V Only					
Lutron	Skylark	CT-103P(MLV)	1%-100%	1-26	ELV
Lutron	Skylark	SELV-303P/SELV-300P	1%-100%	1-13	ELV

* NVTV/NFTV "DIMMING ONLY" or "USE WITH PowerPack for Dimming+on/off"

■ WIRING DIAGRAM

Connect to 0-10 V dimmer only

VIOLET(+)
PINK(-)
RED(+)
BLUE(-)

LED

Driver

BLACK — 120-277VAC HOT/LINE
WHITE — NEUTRAL

Note: Cap off violet and pink wires individually if 0-10 V dimming is not desired.

For Standard Driver ST3 only

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