Novation®

LED 3" Shallow Fixed IC Downlight

preciseLED
Precision Through Innovation

Project Name:
Fixture Type:

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	--

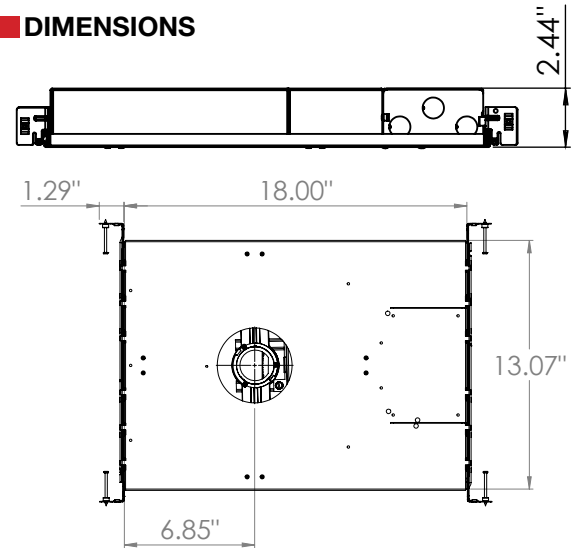For wattage options other than 23W please use the multiplier chart to calculate the output performance

Wattage	23W	14W	10W
Multiplier	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-ST2-AT-CL-MI**

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	**3G** 3rd Gen	**60D** 60° (Default) **45D** 45° **38D** 38° **24D** 24° **15D** 15°	**ST2:** For wattages range 14 and 23W **ST2L** For wattages below 14W **ST2H** For wattages above 23W Note: All ST2 drivers Tri Mode and dims to 1%: 0-10V (120-277V) Triac/ELV (120V only)	**AT** Airtight (Default) **CP** ChicagoPlenum

Accessories	Optional

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.	**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.

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

Product	Type	Outer Finish	Inner Finish	Trim Adapter
NVTN-3-TRIM-AS				
NVTN-3-TRIM-AS Self flanged trims	**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)	**NVTN-3-COLR** *Trim collar, use for both types SQ and RD in drywall, acoustical, millwork ceiling, spackling not required. Ceiling thickness: 1/2"~1". * Consult factory for thicker ceiling

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

Product	Type	Inner Finish	Shower	Adapter
NVTN-3-TRIM-BS Trimless trims	**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)	**ADPT-SQ-UNV-3G** Use for type Square in drywall ceiling **ADPT-RD-UNV-3G** Use for type Round in drywall ceiling **ADPT-RD-HARD-3G** Use for type Round in stone/wood ceiling

■ TRIM COMPATIBILITY

Requires round sheetrock cutout:
4.0625" Diameter

Requires square sheetrock cutout:
4.125"x4.125"
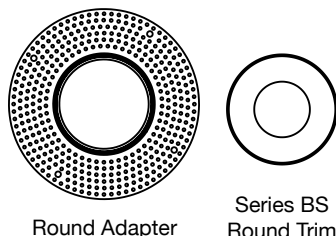
Round Adapter

Series BS Round Trim

Square Adapter

Series BS Square Trim
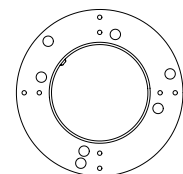
Round Collar
Note: Collars are pre installed on the fixture.
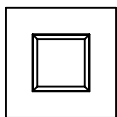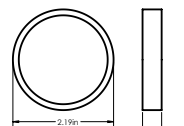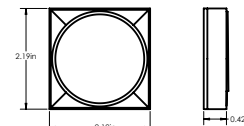
Series A Square Trim
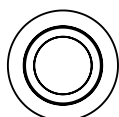
Series A Round Trim

Round Lens Cone

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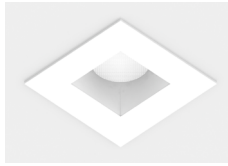
Note: Round lens cone is pre installed on every fixture. Square lens cone is provided, and can be replaced in the field in needed.
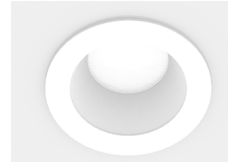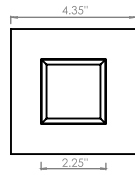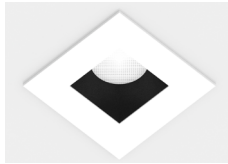
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◼ TRIM OPTIONS

NVTN-3-TRIM-AS

4.35"
2.25"
0.94"

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

Ø 4.30"
Ø 2.25"
0.97"

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

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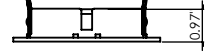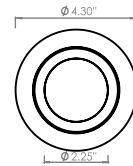
NVTN-3-TRIM-AS-SQ-WH-BK

Ø 4.30"
Ø 2.25"
0.97"
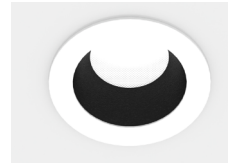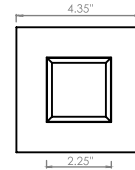
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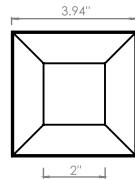
4.35"
2.25"
0.94"
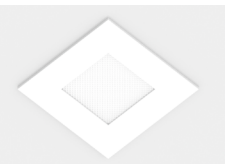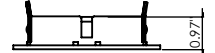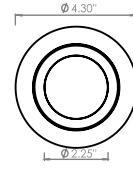
NVTN-3-TRIM-AS-SQ-WH-SH

Ø 4.30"
Ø 3"
0.97"
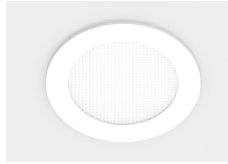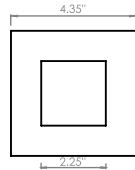
NVTN-3-TRIM-AS-RD-WH-SH

NVTN-3-TRIM-BS

3.94"
2"
0.96"

NVTN-3-TRIM-BS-SQ-WH

Ø 3.94"
Ø 2"
0.96"

NVTN-3-TRIM-BS-RD-WH

3.94"
2"
0.96"

NVTN-3-TRIM-BS-SQ-BK

Ø 3.94"
Ø 2"
0.96"
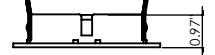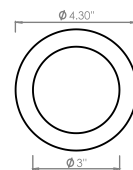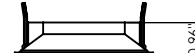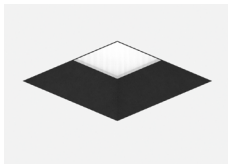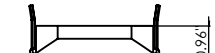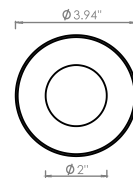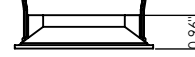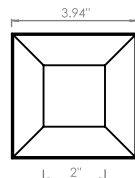
NVTN-3-TRIM-BS-RD-BK
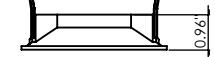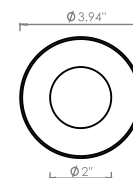
◼ TRIM ADAPTER
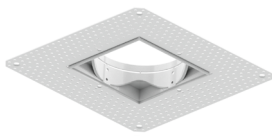
NVTN-ADPT-SQ-UNV-3G*
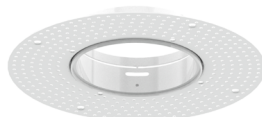
NVTN-ADPT-RD-UNV-3G*

NVTN-3-COLR

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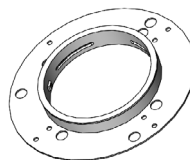
XXD Beam Spread Lens

◼ OPTICS ACCESSORY

CL Clear Lens
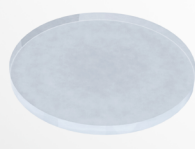
SO Softening Lens

PR Prismatic Lens

SA Sanded Lens

LI Linear Lens
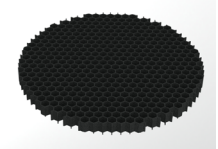
MB/MA Micro-louver (Black or Aluminum)

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■ ASSEMBLED VIEW
Nailer bars
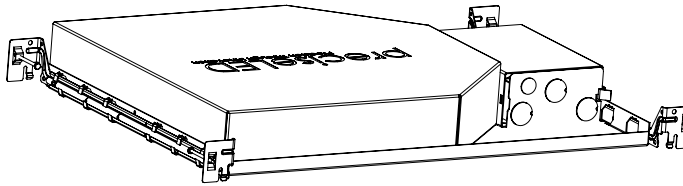
CB Bracket
(C-Channel bars with butterfly mounting brackets for acoustical ceiling)

Note: Able to move fixture along C-Channel for position adjustments

■ SPECIFICATIONS

LED SYSTEM

• LED ENGINE: CREE: 2700K, 3000K, 3500K, 4000K,
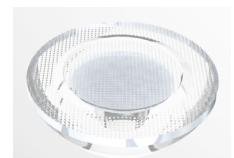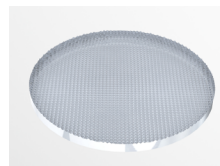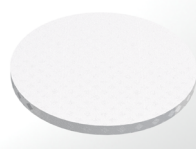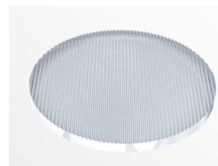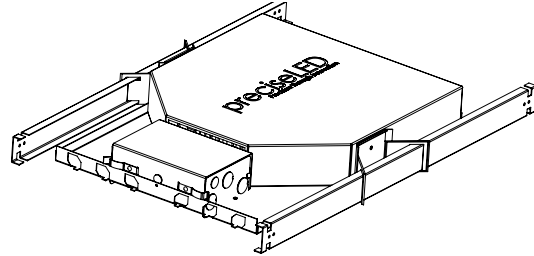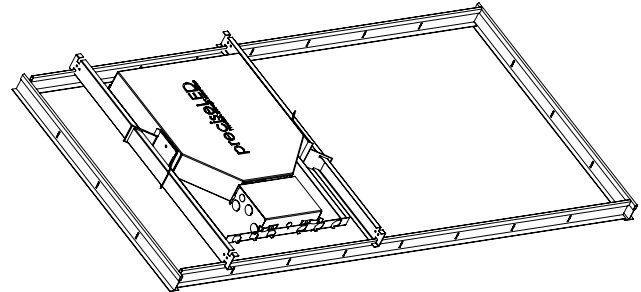
  LUXTECH: 18K30K dim-to-warm, field-replaceable LED

  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

• DRIVER: Standard ST2 Series driver is Tri Mode and dims to 1%:

    for 0-10V (120-277V) and for Triac/ELV (120V only)

• 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: 12.6Ibs

• Patent No. 10174891

• Can be used to comply with Title 24/JA8 requirements (using

  ST2 driver and white trim with no accessories. For full list of com-
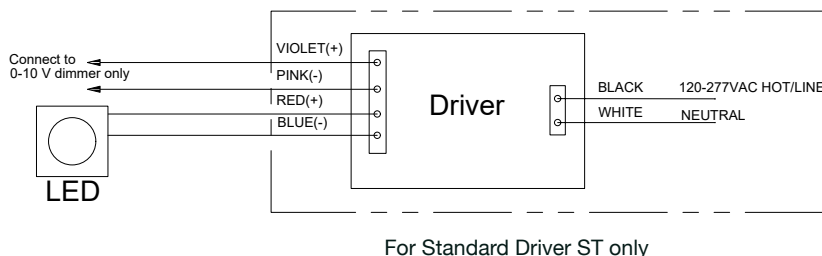
  patible models please contact factory)

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DIMMER COMPATIBILITY CHART

	Standard Driver ST2				
Dimmer Manufacturer	Product	Part Number	Dimming Range	Qty Fixture Per Control	Dimming Type
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 ST only

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