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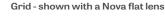
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**IC RATED** 

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### DESCRIPTION

Nova is an efficient architectural LED troffer with a distinctive luminous shielding that distributes gentle brightness from the sides of its central optical element. Using advanced LED engines, Nova provides highly efficient illumination and offers comprehensive ceiling, electrical, and controls options in 2x2, 1x4, and 2x4 sizes. Nova is available with both Flat and Slope side diffusers. See separate spec sheets for other available mountings.

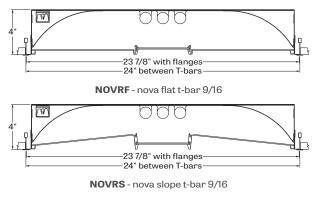
#### **ORDER GUIDE**

	24	РМО	HLO				
LUMINAIRE ID	SIZE	CENTER OPTICS	SIDE OPTICS	LIGHT SOURCE	NUMBER OF LAMPS	VOLTAGE	BALLAST
NOVRF - nova recessed flat NOVRS - nova recessed slope	<b>24</b> - 2'x4'	<b>PMO</b> - Precision Micro-Prism Optic	HLO - High-Efficiency Lambertian Optic	<b>T5</b> - T5 lamp <b>T5HO</b> - T5HO lamp <b>T8</b> - T8 lamp	1-1 lamp 2 - 2 lamps 3 - 3 lamps	<b>120</b> - 120V <b>277</b> - 277V <b>UNV</b> - 120V-277V <b>347</b> - 347V (not available with Lutron)	RS - rapid start D - dimming 0-10V ST - step dimming DA - dali LHL - Lutron Hi-Lume 3D LEH - Lutron EcoSystem H

ELECTRICAL	MOUNTING	FINISH	CONTROLS	OPTIONS
1-1 circuit	<b>TG9</b> - tegular 9/16"	W - matte white	INDIVIDUAL CONTROLS	FU - fuse
2 - 2 circuits	<b>TG15</b> - tegular 15/16"	CF# - custom	OMS - Onboard Occupancy	FWC - flexible whip cable (6' std)
EM - emergency light circuit	<b>TB9</b> - t-bar 9/16"	finish specify	ODS - Onboard Daylight	AR - air return (for grid only)
NL - night light circuit	<b>TB15</b> - t-bar 15/16"	RAL#	OCS - Onboard Occupancy & Daylight	CP - Chicago Plenum
+EB - emergency battery pack	ST - screw slot t-bar		GROUPED CONTROLS	CU - custom
+GTD### - generator transfer device, 120V or 277V	<b>DF</b> - drywall kit		LSC - Local system	
			NSC - Network system	

See page 6 for ordering code detailed information

#### **CROSS SECTION**



## OPTICS



NOVRS - nova slope



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NOVRF - nova flat

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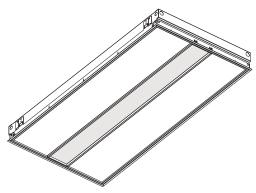
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Intertek

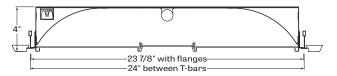
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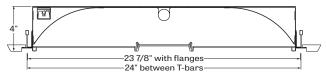
# **NOVA FLAT - 1 LAMP**



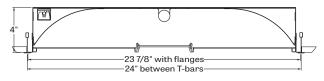
#### NOVA FLAT - TG9 - tegular 9/16"



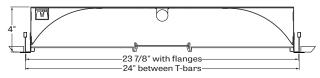
NOVA FLAT - TG15 - tegular 15/16"



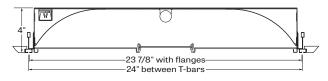
**NOVA FLAT** - TB9 - t-bar 9/16'



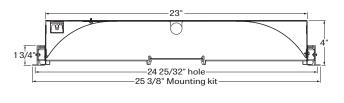
NOVA FLAT - TB15 - t-bar 15/16"



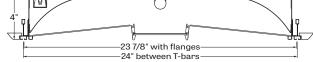
NOVA FLAT - ST- screw slot t-bar



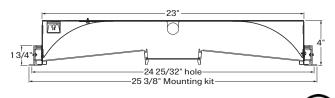
NOVA FLAT - DW- drywall kit



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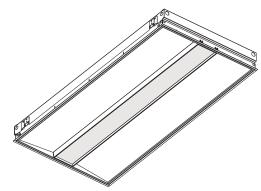


NOVA SLOPE - DW- drywall kit

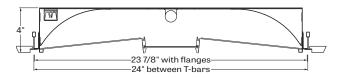


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# **NOVA SLOPE - 1 LAMP**



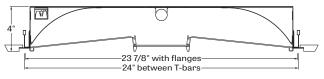
NOVA SLOPE - TG9 - tegular 9/16"



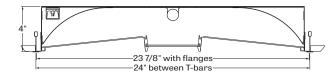
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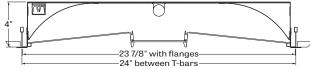
NOVA SLOPE - TG15 - tegular 15/16"



NOVA SLOPE - TB9 - t-bar 9/16"



NOVA SLOPE - TB15 - t-bar 15/16"



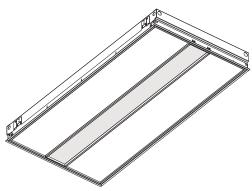
NOVA SLOPE - ST- screw slot t-bar

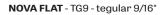
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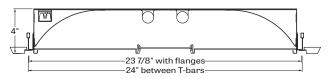
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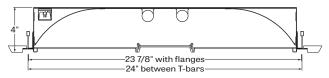




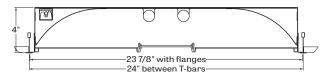




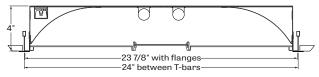
NOVA FLAT - TG15 - tegular 15/16"



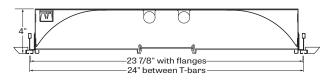
NOVA FLAT - TB9 - t-bar 9/16"



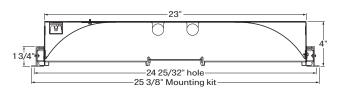
NOVA FLAT - TB15 - t-bar 15/16"



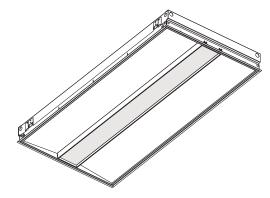
NOVA FLAT - ST- screw slot t-bar



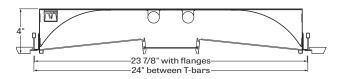
NOVA FLAT - DW- drywall kit



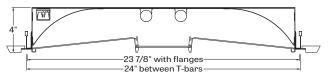
## **NOVA SLOPE - 2 LAMPS**



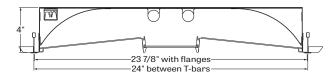
NOVA SLOPE - TG9 - tegular 9/16"



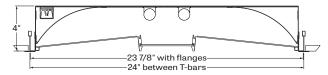
NOVA SLOPE - TG15 - tegular 15/16"



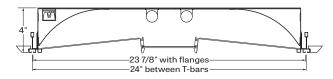
NOVA SLOPE - TB9 - t-bar 9/16"



NOVA SLOPE - TB15 - t-bar 15/16"

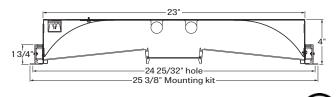


NOVA SLOPE - ST- screw slot t-bar



NOVA SLOPE - DW- drywall kit

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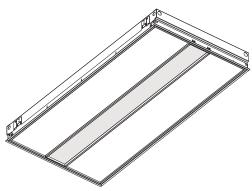
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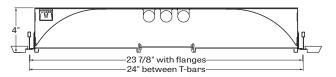
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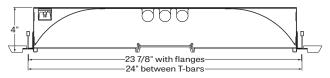




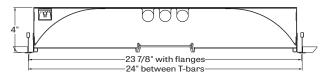
NOVA FLAT - TG9 - tegular 9/16"



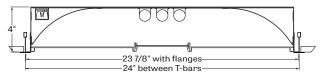
NOVA FLAT - TG15 - tegular 15/16"



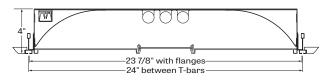
**NOVA FLAT** - TB9 - t-bar 9/16"



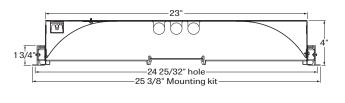
NOVA FLAT - TB15 - t-bar 15/16"



NOVA FLAT - ST- screw slot t-bar

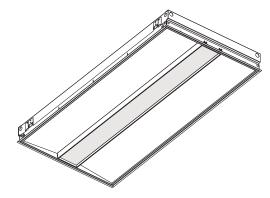


NOVA FLAT - DW- drywall kit

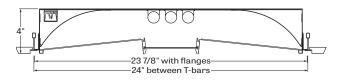




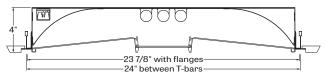
# **NOVA SLOPE - 3 LAMPS**



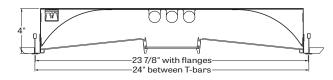
NOVA SLOPE - TG9 - tegular 9/16"



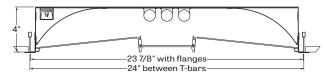
NOVA SLOPE - TG15 - tegular 15/16"



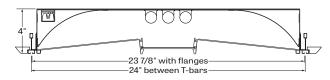
NOVA SLOPE - TB9 - t-bar 9/16"



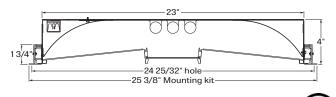
NOVA SLOPE - TB15 - t-bar 15/16"



NOVA SLOPE - ST- screw slot t-bar



NOVA SLOPE - DW- drywall kit



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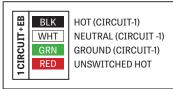




#### **RAPID START -**1 Circuit BLK HOT (CIRCUIT-1) **1**CIRCUIT WHT NEUTRAL (CIRCUIT -1) GROUND

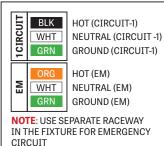
#### **RAPID START -**

1 Circuit + Emergency Battery



#### **RAPID START -**

1 Circuit + Emergency Circuit



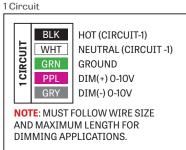
#### **RAPID START -**

2 Circuits



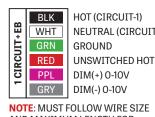
HOT (CIRCUIT-1) NEUTRAL (CIRCUIT -1) **GROUND (CIRCUIT-1)** HOT (CIRCUIT-2)

# **DIMMING 0-10V**



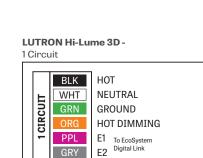
#### **DIMMING 0-10V**

1 Circuit + Emergency Battery



NEUTRAL (CIRCUIT -1)

AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.



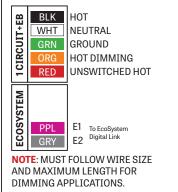
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**NOTE: MUST FOLLOW WIRE SIZE** AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

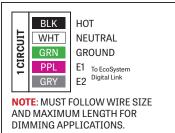
#### LUTRON Hi-Lume 3D -

1 Circuit + Emergency Battery



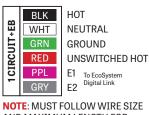
### LUTRON ECOSYSTEM H -

1 Circuit



## LUTRON ECOSYSTEM H -

1 Circuit + Emergency Battery



AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

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### OPTICS

**CENTER LENS - PRECISION MICRO-PRISM-OPTIC (PMO)** - utilizes a specially designed catadioptric lens that combines refraction and internal reflection. The square-base prism is 24% the size of those used in a high-performance fluorescent lens. The exclusive two-dimensional array of prisms is designed to eliminate the glare found at higher viewing angles and as such, enables a glare cut-off at a 45° viewing angle.

The acrylic material itself is untinted, relying entirely on catadioptric control for effective source obscuration. A highly efficient TIR process at the acrylic-air interface on the prism surfaces redirects incident light with less than a 0.1% loss per reflection. As a result, these LumenWerx optics attain a high optical efficiency greater than 90%, while maintaining visual comfort at normal viewing angles and presenting a pleasing luminous appearance.

**SIDE LENS - HIGH EFFICIENCY LAMBERTIAN OPTIC (HLO)** - shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration.

### ELECTRICAL

Universal input voltages with multiple control schemes offered. Consult factory for availability.

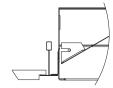
#### **EMERGENCY**

Factory installed long life high temperature recyclable Ni-Cad battery pack with test switch and charge indicator, minimum of 90 minutes operation. Recharge time of 24 hours.

#### **MOUNTING OPTIONS**

Recess mount into exposed or concealed T-Bar or Tegular grid ceiling







**TG9** - tegular 9/16"

**TG15** - tegular 15/16"

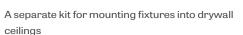
**TB9** - t-bar 9/16





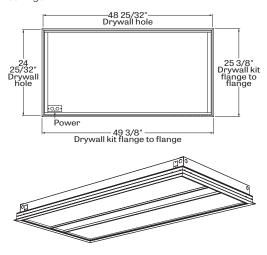
TB15 - t-bar 15/16"

ST - screw slot t-bar



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DF - drywall kit

#### FINISH

Interior reflectors - 95% reflective, matte white powder coating

**Exterior** - matte white powder coating. Custom finish is also available.

#### CONTROLS

LumenWerx offers several options for integrating occupancy and daylight controls. Whether a sensors control its own fixture or is part of a group of fixtures, lights can be automatically controlled according to different energy saving strategies. With <u>individual Controls</u>, an on-board sensor controls the fixture in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire fixture, or just a section.

With <u>Grouped Controls</u>, on-board or remote sensor are part of a either a local or network sensor infrastructure. It's possible to scale the controls, from a switch to a fixture setup, to a room or a whole building Occupancy and or daylight harvesting.

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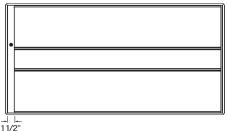
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### **INDIVIDUAL CONTROLS**

Individual controls are integrated into the fixture and are therefore easy to use and allow for a cleaner looking space as no ceiling or wall-mounted sensors are required. Individual controls can be one of three types (OMS) Occupancy, (ODS) Daylight Harvesting (Photocell), or (OCS) combined occupancy and daylight harvesting. These controls will be installed with factory settings, but most offer field adjustability with regular tools or manufacturer supplied configuration tools.



Location of an Onboard control

### **GROUPED CONTROLS**

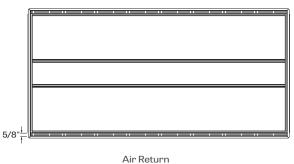
Local systems permit added flexibility and interconnectivity. Each fixture can now become part of a group of fixtures and be controlled by On-Board or remote sensors as well as wireless switches or controllers. With this architecture, it is now possible to have fewer fixtures with On-Board sensor which control all of the fixtures of the lighting zone. In order to have grouped controls programmed in factory, it is required that a floor layout with requested grouping and functionality be supplied. Field commissioning is also possible but must be requested and discussed before final Purchase Order is placed.

Network Controls, Lumenwerx fixtures are compatible with most popular BMS integration protocols such as DALI, DMX, EnOcean, BACnet, Enlighted and Lutron Ecosystem just to name a few. Field commissioning is usually required and details must be discussed before final Purchase Order is placed.

Please contact our controls department at controls@lumenwerx.com for further assistance.

### **OPTIONS**

The air return option consists in a discreet, yet efficient, slot pattern integrated into the side flanges of the luminaire, allowing the airflow to exhaust into plenum space, creating a clean, pleasant look of the ceiling.



# CONSTRUCTION

Housing - Die formed cold rolled sheet steel 20 gauge thick, matte white powder coating.

Reflectors - Cold rolled steel 0.030" thick precisely die formed, 95% reflective matte white painted. Interior brackets - Die formed cold rolled sheet steel 20 gauge thick.

Center basket - Extruded Aluminum 0.07" nominal, matte white and lens made in clear PMMA precisely formed into optical micro-structures forms. Side lenses - Frost impact acrylic lens 88% transmissive.

Drywall kit - Extruded Aluminum 0.07" nominal, matte white powder coating.

### WEIGHT

Nova 2x4: 36.23lbs.+3.74lbs. (drywall kit) -16.45kg+1.7 kg (drywall kit)

## CERTIFICATIONS

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0. Chicago plenum - City of Chicago Approved (CCEA) IC rated - suitable for direct contact with insulation.

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