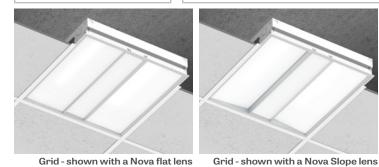
NOVA 2x2

RECESSED





PROJECT:	
APPROVED BY: _ SIGNATURE: _	

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.

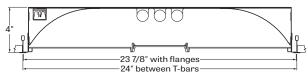
ORDER GUIDE IC RATED

	22	РМО	HLO				
LUMINAIRE ID	SIZE	CENTER OPTICS	SIDE OPTICS	LIGHT SOURCE	NUMBER OF LAMPS	VOLTAGE	BALLAST
NOVRF - nova	22 - 2'x2'	PMO - Precision	HLO - High-Efficiency	T5 - T5 lamp	1 -1lamp	120 - 120V	RS - rapid start
recessed flat		Micro-Prism Optic	Lambertian Optic	T5HO - T5HO lamp	2 - 2 lamps	277 - 277V	D - dimming 0-10V
NOVRS - nova				T8 - T8 lamp	3 - 3 lamps	UNV - 120V-277V	ST - step dimming
recessed slope						347 - 347V (not	DA - dali
						available with	LHL - Lutron Hi-Lume 3D
						Lutron)	LEH - Lutron EcoSystem H

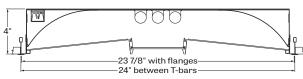
ELECTRICAL	MOUNTING	FINISH	CONTROLS	OPTIONS
1-1 circuit	TG9 - tegular 9/16"	W - matte white	INDIVIDUAL CONTROLS	FU - fuse
2 - 2 circuits	TG15 - tegular 15/16"	CF# - custom finish	OMS - Onboard Occupancy	FWC - flexible whip cable (6' std)
EM - emergency light circuit	TB9 - t-bar 9/16"	specify RAL#	ODS - Onboard Daylight	AR - air return (for grid only)
NL - night light circuit	TB15 - t-bar 15/16"		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	DF - drywall kit		LSC - Local system	
			NSC - Network system	

See page 6 for ordering code detailed information

CROSS SECTION



NOVRF - nova flat t-bar 9/16



NOVRS - nova slope t-bar 9/16

OPTICS



NOVRS - nova slope



NOVRF - nova flat

File Name: NOVA22-FLU-RECESSED-SPEC

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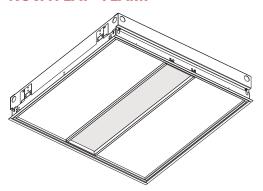
July 7, 2019



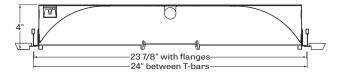
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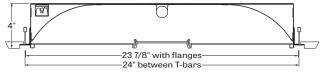
NOVA FLAT-1LAMP



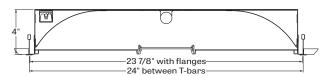
NOVA FLAT - TG9 - tegular 9/16"



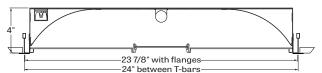
NOVA FLAT - TG15 - tegular 15/16"



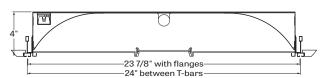
NOVA FLAT - TB9 - t-bar 9/16"



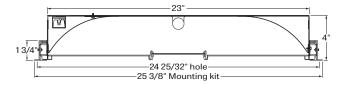
NOVA FLAT - TB15 - t-bar 15/16"



NOVA FLAT - ST- screw slot t-bar



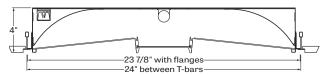
NOVA FLAT - DW- drywall kit



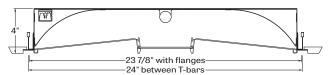
NOVA SLOPE-1 LAMP



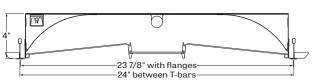
NOVA SLOPE - TG9 - tegular 9/16"



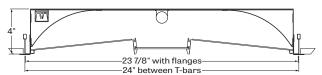
NOVA SLOPE - TG15 - tegular 15/16"



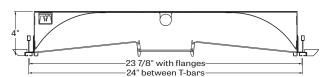
NOVA SLOPE - TB9 - t-bar 9/16"



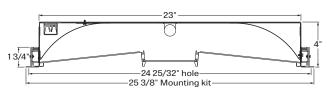
NOVA SLOPE - TB15 - t-bar 15/16"



NOVA SLOPE - ST- screw slot t-bar



NOVA SLOPE - DW- drywall kit



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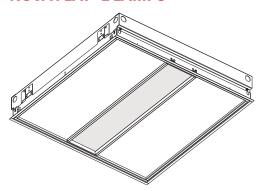
July 7, 2019



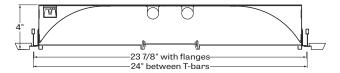
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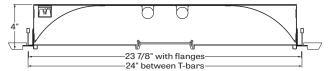
NOVA FLAT - 2 LAMPS



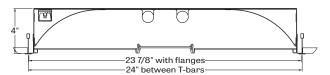
NOVA FLAT - TG9 - tegular 9/16"



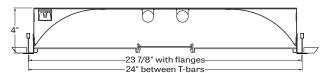
NOVA FLAT - TG15 - tegular 15/16"



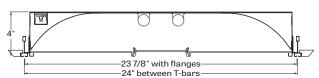
NOVA FLAT - TB9 - t-bar 9/16"



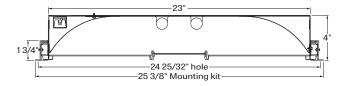
NOVA FLAT - TB15 - t-bar 15/16"



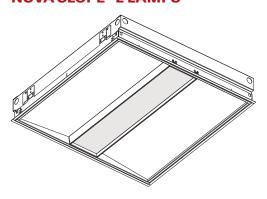
NOVA FLAT - ST- screw slot t-bar



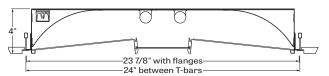
NOVA FLAT - DW- drywall kit



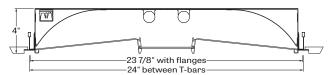
NOVA SLOPE - 2 LAMPS



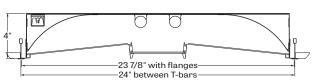
NOVA SLOPE - TG9 - tegular 9/16"



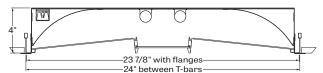
NOVA SLOPE - TG15 - tegular 15/16"



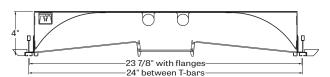
NOVA SLOPE - TB9 - t-bar 9/16"



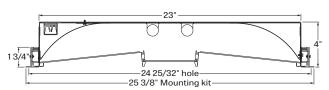
NOVA SLOPE - TB15 - t-bar 15/16"



NOVA SLOPE - ST- screw slot t-bar



NOVA SLOPE - DW- drywall kit



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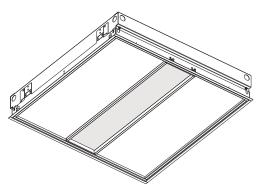
July 7, 2019



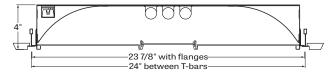
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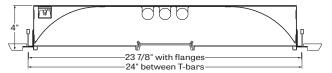
NOVA FLAT - 3 LAMPS



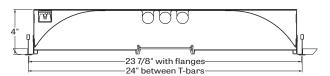
NOVA FLAT - TG9 - tegular 9/16"



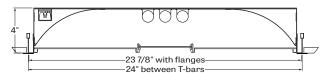
NOVA FLAT - TG15 - tegular 15/16"



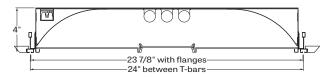
NOVA FLAT - TB9 - t-bar 9/16"



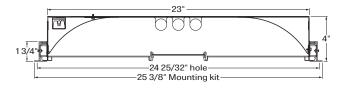
NOVA FLAT - TB15 - t-bar 15/16"



NOVA FLAT - ST- screw slot t-bar



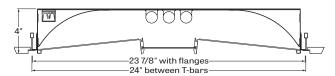
NOVA FLAT - DW- drywall kit



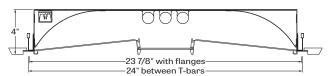
NOVA SLOPE - 3 LAMPS



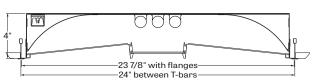
NOVA SLOPE - TG9 - tegular 9/16"



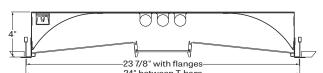
NOVA SLOPE - TG15 - tegular 15/16"



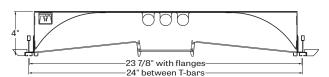
NOVA SLOPE - TB9 - t-bar 9/16"



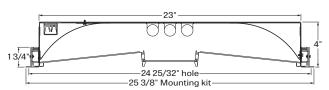
NOVA SLOPE - TB15 - t-bar 15/16"



NOVA SLOPE - ST- screw slot t-bar



NOVA SLOPE - DW- drywall kit



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July 7, 2019



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ELECTRICAL CIRCUITS

RAPID START-

1 Circuit



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

RAPID START-

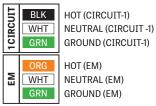
1 Circuit + Emergency Battery



HOT (CIRCUIT-1) NEUTRAL (CIRCUIT-1) GROUND (CIRCUIT-1) UNSWITCHED HOT

RAPID START-

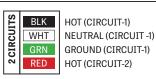
1 Circuit + Emergency Circuit



NOTE: USE SEPARATE RACEWAY
IN THE FIXTURE FOR EMERGENCY
CIRCUIT

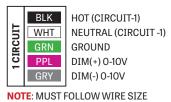
RAPID START-

2 Circuits



DIMMING 0-10V -

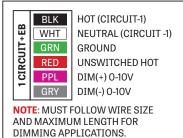
1 Circuit



AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

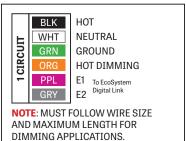
DIMMING 0-10V -

1 Circuit + Emergency Battery



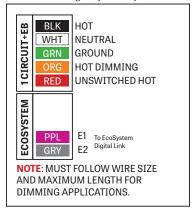
LUTRON Hi-Lume 3D-

1 Circuit



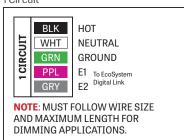
LUTRON Hi-Lume 3D-

1 Circuit+ Emergency Battery



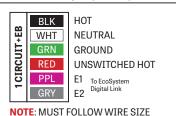
LUTRON ECOSYSTEM H -

1 Circuit



LUTRON ECOSYSTEM H-

1 Circuit + Emergency Battery



NOTE: MUST FOLLOW WIRE SIZE 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

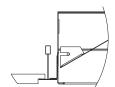
Factory installed long life high temperature recyclable Ni-Cad battery pack with test switch and charge indicator, minimum of 90 minutes operation. Recharge time of 24 hours.

MOUNTING OPTIONS

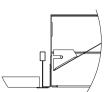
Recess mount into exposed or concealed T-Bar or Tegular grid ceiling



TG9 - tegular 9/16'



TG15 - tegular 15/16"



TB9 - t-bar 9/16"

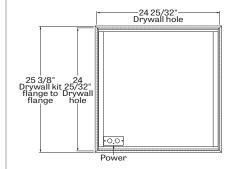


TB15 - t-bar 15/16"



ST - screw slot t-bar

A separate kit for mounting fixtures into drywall ceilings





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 individual Controls, 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.

c Usyreo Us

File Name: NOVA22-FLU-RECESSED-SPEC

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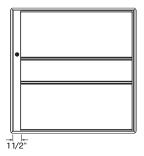
NOVA 2x2

RECESSED



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

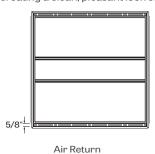
Local systems permit added flexibility and interconnectivity. Each fixture can now become part of a group of fixtures and be controlled by On-Board or remote sensors as well as wireless switches or controllers. With this architecture, it is now possible to have fewer fixtures with On-Board sensor which 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 2x2: 16.52lbs.+2.51lbs. (drywall kit) - 7.5kg+1.14kg (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.

