

SURFACE







PROJECT:	
APPROVED BY: SIGNATURE:	

TYPE QTY

Shown with a Nova flat lens

Shown with a Nova Slope lens

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.

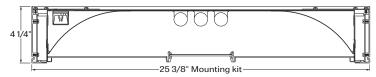
ORDER GUIDE

	22	РМО	HLO			
LUMINAIRE ID	SIZE	CENTER OPTICS	SIDE OPTICS	LIGHT SOURCE	NUMBER OF LAMPS	VOLTAGE
NOVSF - nova	22 - 2'x2'	PMO - Precision Micro-Prism	HLO - High-Efficiency Lambertian	T5 - T5 lamp	1 -1lamp	120 - 120V
surface flat		Optic	Optic	T5H0 - T5H0 lamp	2 - 2 lamps	277 - 277V
NOVSS - nova				T8 - T8 lamp	3 - 3 lamps	UNV - 120V-277V
surface slope						347 - 347V (not
						available with Lutro

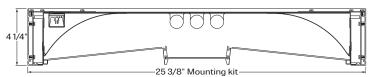
		SUR			
BALLAST	ELECTRICAL	MOUNTING	FINISH	CONTROLS	OPTIONS
RS - rapid start	1-1 circuit	SUR - surface mount kit	W - matte white	INDIVIDUAL CONTROLS	FU - fuse
D - dimming 0-10V	2 - 2 circuits		CF# - custom finish	OMS - Onboard Occupancy	CU - custom
ST - step dimming	EM - emergency light circuit		specify RAL#	ODS - Onboard Daylight	
DA - dali	NL - night light circuit			OCS - Onboard Occupancy & Daylight	
LHL - Lutron Hi-Lume 3D	+EB - emergency battery pack			GROUPED CONTROLS	
LEH - Lutron EcoSystem H	+GTD### - generator transfer			LSC - Local system	
	device, 120V or 277V			NSC - Network system	

See page 4 for ordering code detailed information

CROSS SECTION



NOVSF - nova flat surface mount kit



NOVSS - nova slope surface mount kit

OPTICS



NOVSS - nova slope



NOVSF - nova flat

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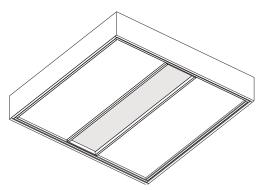
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NOVA 2x2

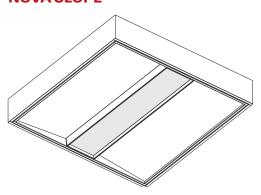
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NOVA FLAT

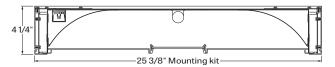


NOVA SLOPE

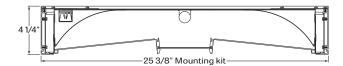


1LAMP

NOVA FLAT - SUR surface

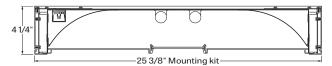


NOVA SLOPE - SUR surface

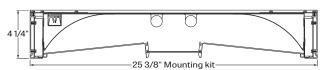


2 LAMPS

NOVA FLAT - SUR surface

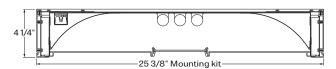


NOVA SLOPE - SUR surface

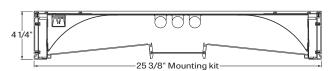


3 LAMPS

NOVA FLAT - SUR surface



NOVA SLOPE - SUR surface





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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



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

HOT (EM) NEUTRAL (EM) GROUND (EM)

NOTE: USE SEPARATE RACEWAY
IN THE FIXTURE FOR EMERGENCY
CIRCUIT

RAPID START-

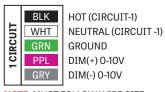
2 Circuits



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

DIMMING 0-10V -

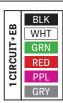
1 Circuit



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

DIMMING 0-10V -

1 Circuit + Emergency Battery



HOT (CIRCUIT-1)
NEUTRAL (CIRCUIT -1)
GROUND
UNSWITCHED HOT
DIM(+) 0-10V
DIM(-) 0-10V

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

LUTRON Hi-Lume 3D-

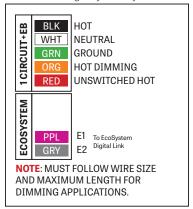
1 Circuit



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

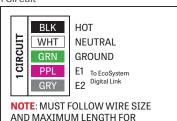
LUTRON Hi-Lume 3D -

1 Circuit+ Emergency Battery



LUTRON ECOSYSTEM H-

1 Circuit



LUTRON ECOSYSTEM H -

1 Circuit + Emergency Battery

DIMMING APPLICATIONS.



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

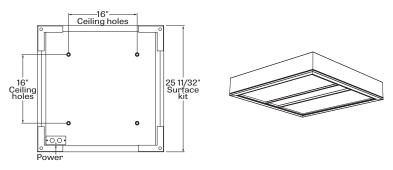
Universal input voltages with multiple control schemes offered. Consult factory for availability.

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

A separate kit for mounting fixtures directly to the ceiling surface. Kit is compatible with T-Bar, hard surface and drywall ceilings.



SUR - surface mount kit

FINISH

Interior reflectors - 95% reflective, matte white powder coating **Exterior** - matte white powder coating.

Custom finish is also available.

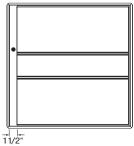
CONTROLS

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.

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



NOVA 2x2

SURFACE



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.

CONSTRUCTION

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

 $\bf Reflectors$ - 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.

Surface kit - Extruded Aluminum 0.07" nominal, matte white or aluminum powder coating. Custom finishes are also available.

WEIGHT

Nova 2x2: 16.52lbs.+5.51lbs. - 7.5kg+2.5kg

CERTIFICATIONS

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

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