

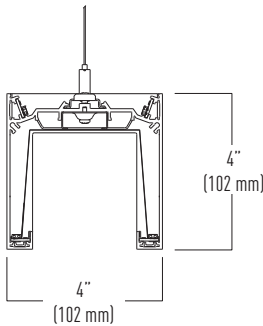
Volūm VL-B

Pendant
BI-DIRECT
Light Distribution

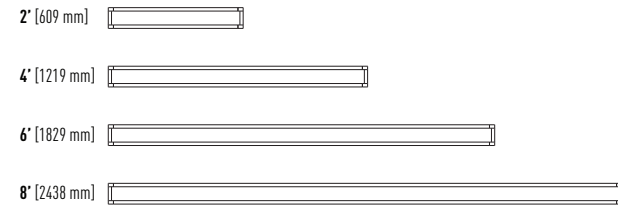


The Volūm is a modern LED pendant lighting system designed to deliver low-glare ambient illumination to limitless interior environments. It's innovative design creatively conceals the light source in a timeless design that complements any architectural style.

- *Extruded aluminum housing and die cast aluminum end caps*
- *Advanced high reflectivity optical reflector system*
- *Tool free installation with engineered spring latch design*
- *Available in 3 standard paint finishes and an array of wood grain finishes*



Standard Individual Fixture Lengths*



* Dimensions represent fixture body length, add 1" for overall fixture dimension that includes both end caps

ORDERING INFORMATION / Example: VL-B-05-08-L35-U-D-2-2-AG-T1-W-120-24

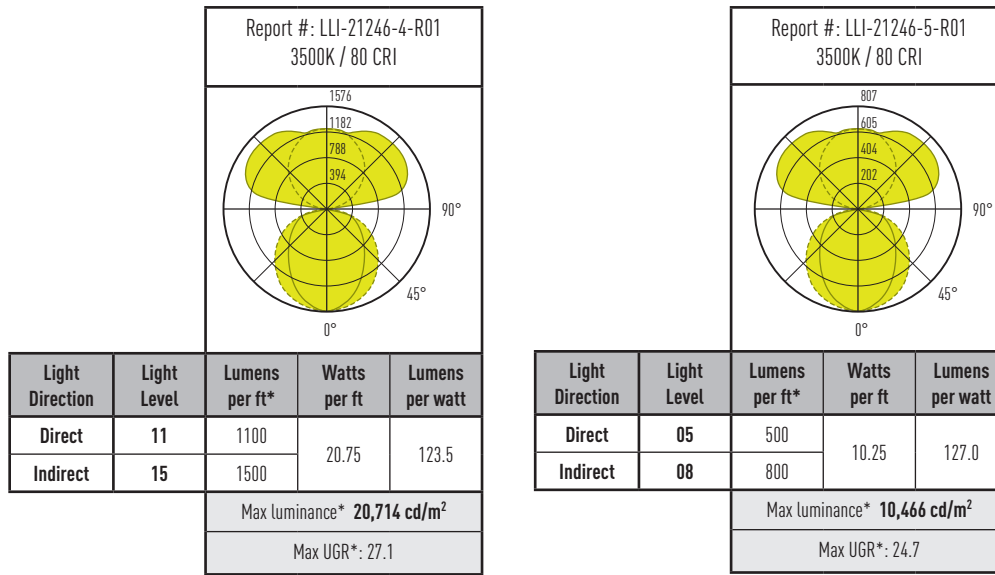
VL	B						
SERIES	LIGHT DISTRIBUTION	LUMENS / DOWN ¹	LUMENS / UP ¹	CRI/ CCT ²	VOLTAGE	DRIVER	CIRCUITING / EMERGENCY OPTIONS ²
VL - Pendant Linear LED Luminaire System.	B-Bi-Direct light distribution	03 - 300 lm/ft 05 - 500 lm/ft 08 - 800 lm/ft 11 - 1100 lm/ft	03 - 300 lm/ft 05 - 500 lm/ft 08 - 800 lm/ft 11 - 1100 lm/ft 13 - 1300 lm/ft 15 - 1500 lm/ft	L30 - 80 CRI, 3000K L35 - 80 CRI, 3500K L40 - 80 CRI, 4000K H30 - 90 CRI, 3000K H35 - 90 CRI, 3500K H40 ³ - 90 CRI, 4000K	U - Universal 1 - 120V 2 - 277V	Dimming 0-10V D - Dim to 1% (Standard) DO - Dim to 1%, Fade to Off DO2 - Eldoled Solodrive, Dim to 0% LUTRON - See options on page 2 DALI Dimming ELE - Eldoled Ecodrive, Dim to 1% ELS - Eldoled Solodrive, Dim to 0%	Qty of Power Circuits 1 - 1 Circuit 2 - 2 Circuits Qty of Control Circuits 1 - 1 Circuit 2 - 2 Circuits Options B5 - 5 Watt Battery Pack B7 - 7 Watt Battery Pack B12 - 12 Watt Battery Pack CEC - CEC Compliant (10 Watt Battery Pack) GTD - Generator Transfer Device (120V or 277V) EM - Dedicated Emergency Circuit

FIXTURE FINISH	MOUNTING (CEILING AND REMOTE DRIVER ENCLOSURE TYPE)	LINEAR ROWS	OPTIONS
WH - White Painted Finish SV - Silver Painted Finish BK - Black Painted Finish CC - Custom Color AG - Two Tone Ash Gray Wood Grain BG - Light Black Gunstock Wood Grain EW - Ebony Walnut Wood Grain ST - Delicate Straight Wood Grain	Ceiling Type (Remote Driver Power Supply) T1 - 1" Ceiling Grid, Aircraft Cable Suspension (Remote "Grid" Driver Enclosure) T9 - 9/16" Ceiling Grid, Aircraft Cable Suspension (Remote "Grid" Driver Enclosure) TS - Slot Ceiling Grid, Aircraft Cable Suspension (Remote "Grid" Driver Enclosure) SRL* - Structure Mount, Aircraft Cable Suspension (Remote Large Surface Driver Enclosure- Nominal Dims L-24", W-8", H-2") SRM* - Structure Mount, Aircraft Cable Suspension (Remote Medium Surface Driver Enclosure, Nominal Dims L-24", W-4", H-2") SRS* - Structure Mount, Aircraft Cable Suspension (Remote Small Surface Driver Enclosure, Nominal Dims L-24", W-2", H-2") GP³ - 5/8" Canopy Integrated Power Supply, for Inaccessible Ceilings or Grid ceilings (with the assistance of bar hangers), Aircraft Cable Suspension */DC - Dual Cable individual Mount (add to suffix to SRL,SRM,SRS. i.e. "SRL-DC")	048 - 48" Adjustable Aircraft Cable 120 - 120" Adjustable Aircraft Cable 240 - 240" Adjustable Aircraft Cable 2 - 24" 4 - 48" 6 - 72" 8 - 96" XX - Specify continuous run lengths in 2' increments	DG - Dust Guard

NOTES:

1. Nominal lumen output for 3500K, 80 CRI
2. Wattage and efficacy varies per color temperature and CRI, visit www.nulite-lighting.com for detailed ies data
3. Battery Pack not available with SRS

PHOTOMETRICS

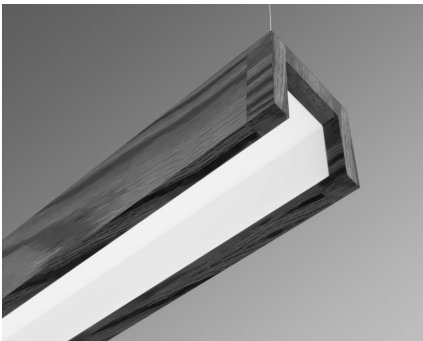


*Lumens per foot are nominal (+/-) 50 lms per ft, download .ies file for detailed information at www.nulite-lighting.com

DRIVER INFORMATION

NULITE CAT#	DRIVER MANUFACTURER / SERIES	DIMMING / CONTROL PROTOCOL	DIM RANGE	NOTES/ DESCRIPTION
D	Signify Xitanium, Osram OTI	0-10v	100% - 1%	Standard Nulite driver, base fixture price
D0	Signify Xitanium, Osram OTI	0-10v	100% - 1% (Steps from 1% to 0% or OFF)	Standard Nulite driver, base fixture price
D02	Eldoled Solodrive	0-10v	100% - 0%	Logarithmic Dimming Curve
L11	Lutron Hi-Lume Premier (PEQ0E) Max lumen package 03	0-10v	100% - 0.1%	Hi-Lume Premier 0.1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
L15	Lutron Hi-Lume Series (LDE1)	0-10v	100% - 1%	Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
ELE	Eldoled Ecodrive	DALI	100% - 1%	Logarithmic Dimming Curve
ELS	Eldoled Solodrive	DALI	100% - 0%	Logarithmic Dimming Curve

WOOD GRAIN FINISH



The Volūm is available in four standard wood grain (hydro-dipped) finishes to create visually stunning lighting installations. This option carries an upcharge and additional lead time, consult your local sales agent for more information.



AG - Two-Tone Ash Gray Wood Grain



EW - Ebony Walnut Wood Grain



ST - Delicate Straight Wood Grain



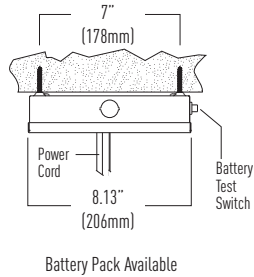
BG - Light Black Gunstock Wood Grain

INSTALLATION AND MOUNTING DETAILS

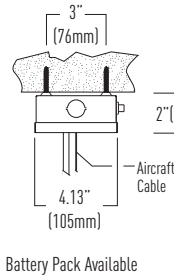
Surface Mount Driver Enclosures

Ceiling Options SRL, SRM, and SRS

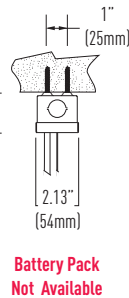
SRL (End View)



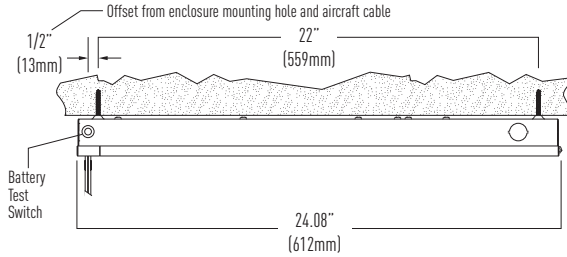
SRM (End View)



SRS (End View)



SRL / SRM / SRS (Side View)



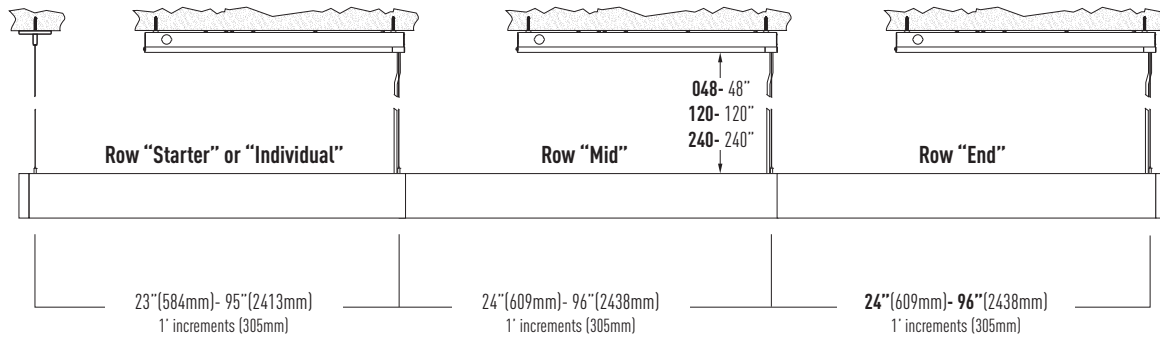
Non-Power canopy



Row Layout Guidelines

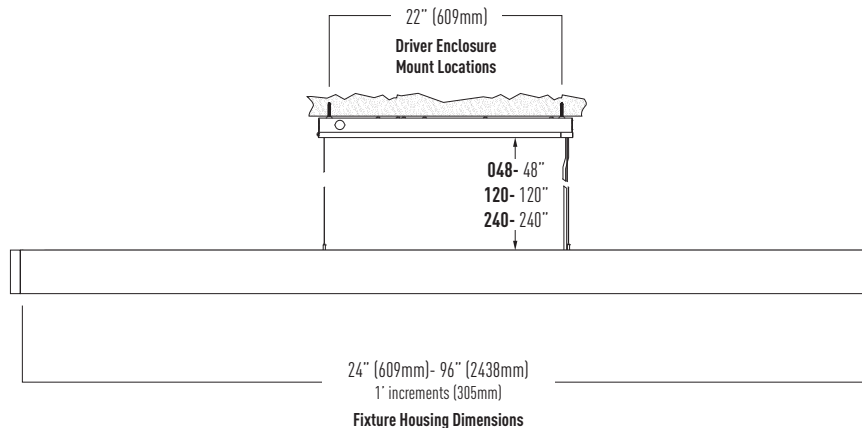
Ceiling Options SRL, SRM, and SRS

DIMENSIONS FOR AIRCRAFT CABLE SUSPENSION MOUNT LOCATIONS



Dual Cable Individual Mounting

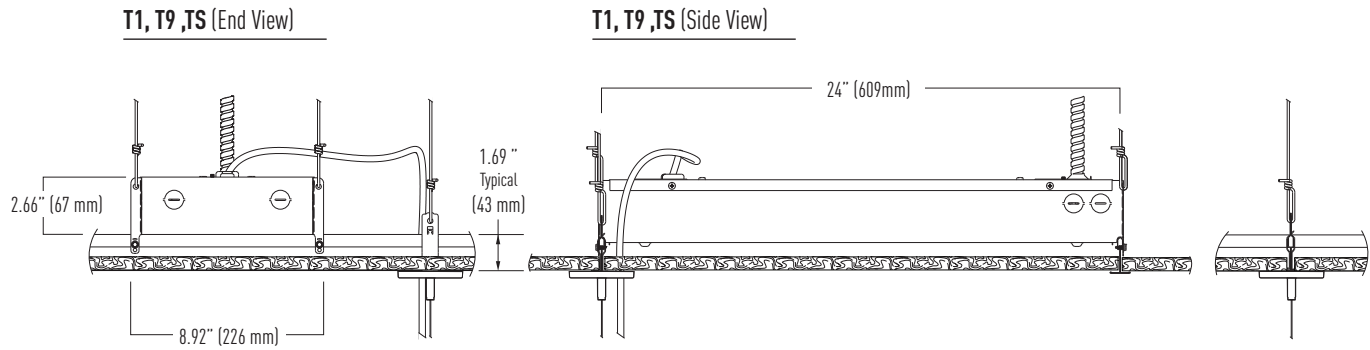
Ceiling Options SRL-DC, SRM-DC, and SRS-DC



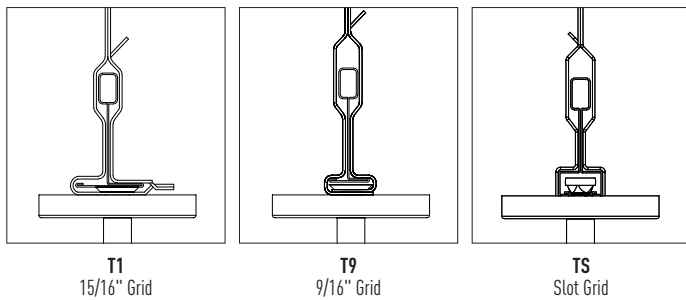
INSTALLATION AND MOUNTING DETAILS

Recessed Grid Ceiling Remote Driver Enclosure

Ceiling Options T1, T9, and TS



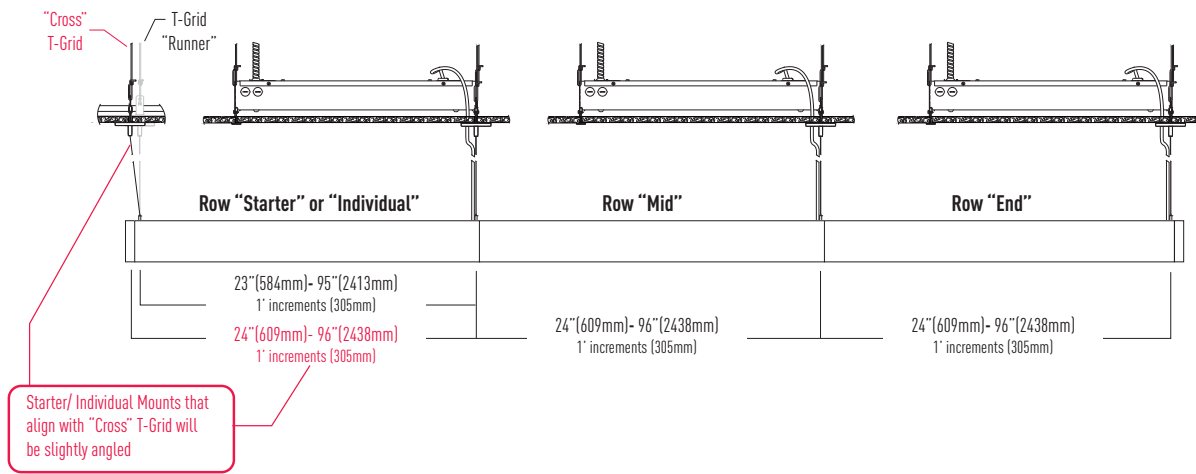
Ceiling Grid Details



Row Layout

Ceiling Options T1, T9, and TS

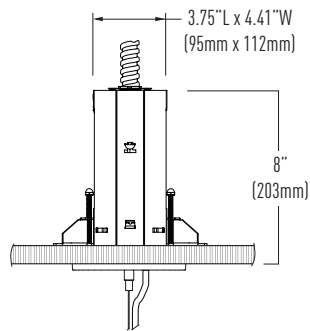
DIMENSIONS FOR AIRCRAFT CABLE SUSPENSION MOUNT LOCATIONS



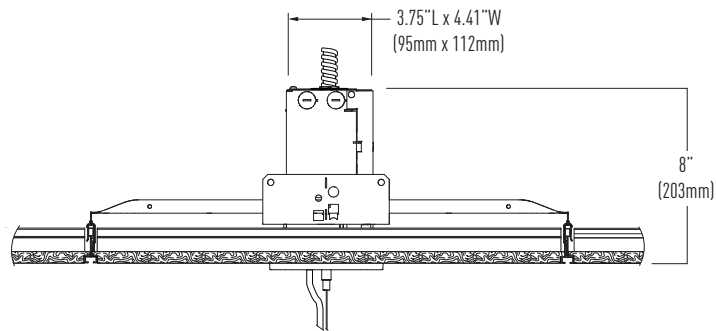
INSTALLATION AND MOUNTING DETAILS

Recessed Canopy Integrated Driver Enclosure for Inaccessible and Grid Ceilings Ceiling Option GP

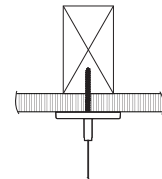
GP (End View)



GP (Side View)

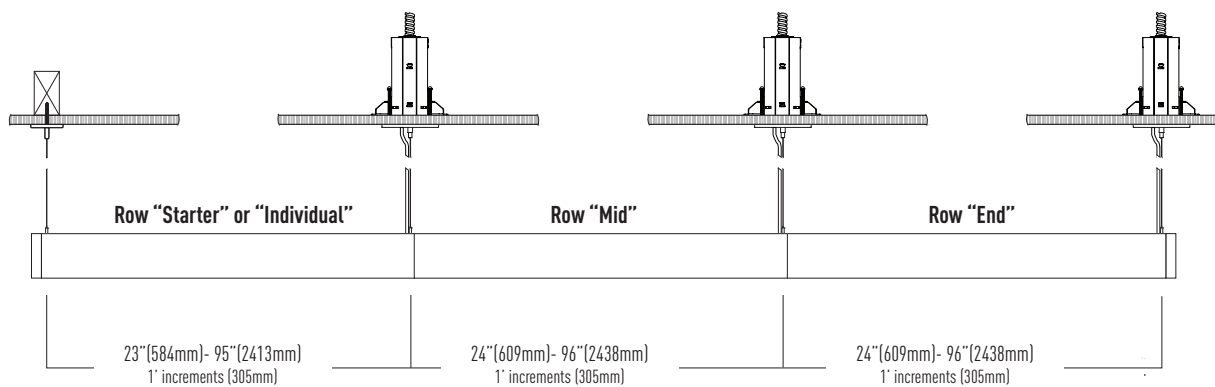


NON-POWERED
canopy



Row Layout Guidelines

Ceiling Option GP



PRODUCT SPECIFICATIONS AND INFORMATION

HOUSING CONSTRUCTION

Fixture body is constructed out of powder coat painted extruded aluminum with die cast aluminum powder coat painted end caps. Captive joining mechanism is a combination die formed sheet metal and zinc plated spring steel. All hardware is stainless steel. SRS/SRM/SRL driver enclosures are constructed out of 22 Ga die-formed cold rolled steel (Covers are post painted and bodies are pre-painted). Grid mounted driver enclosures (T1/TS/T9) are formed out of galvanized 24Ga steel, and GP sheet rock enclosures are formed out of 22Ga galvanized steel.

LED LIGHT ENGINE

Light engine is comprised of three primary components, an engineered high reflectance optical film and two light engines constructed of formed sheet aluminum and an LED PCBA. Max length of optical assembly is 4' and minimum length is 2'. Available CCT's are 3000K, 3500K, and 4000K. Also available CRI's are 80 or 90.

STANDARD DIMMING LED DRIVERS

Standard constant current integral electronic 0-10v dimming input. Two standard driver options are available. Option **D** dims to 1% and option **DO** dims to 0% or OFF (the final 1 percent is a "step"). Both options are the same price and representative of the base fixture price. Options **D** and **DO** ship with 5 wires (Line Voltage- Black and White wires, Low Voltage- Purple and Pink wires, Ground- Green wire)

DALI DRIVERS

Standard constant current DALI drivers available in either a dim to 1% (**ELE**) or dim to 0% (**ELS**). DALI fixtures ship with 5 wires (Line Voltage- Black and White wires, Low Voltage- Purple and Pink wires, Ground- Green wire)

LIGHT OUTPUT

Standard factory programmed light outputs are available in **(03)** 300 lumens per foot, **(05)** 500 lumens per foot, and **(08)** 800 lumens per foot. Light outputs are nominal refer to .ies file at www.nulite-lighting.com for detailed lumen output and energy consumption data.

CIRCUITING

Each luminaire may have up to 2 line voltage (Power) circuits and 2 low voltage (control) circuits. Two power circuits are required for independent control of uplight and downlight in bi-direct luminaires, and low voltage control circuits are for independent dimming of each circuit.

Examples:

- **"1-1"** - 1 power circuit (Line Voltage) and 1 control circuit (Low Voltage) > 5 wires total (1 Black Wire "Hot", 1 White Wire "Neutral", 1 Green Wire "Ground", and 2 low voltage control wires, 1 Pink wire and 1 purple wire)
- **"2-2"** - 2 power circuits (Line Voltage) and 1 control circuit (Low Voltage) > 9 wires total (2 Black Wires "Hot", 2 White Wires "Neutral", 1 Green Wire "Ground", and 4 low voltage control wires, 2 Pink wires and 2 purple wires)

BATTERY PACKS

Recyclable Ni-Cad battery pack, battery run time is 90 minutes. Recharge time of 24 hours. 6W or 10W battery packs are available. To calculate Battery Lumen Output, multiply luminaire efficacy by battery wattage. (example: 120 lms/watt **(120)** x **B10** Battery Wattage **(10)** = **1200** lumens of egress illumination for 90 minutes.) Battery option not available in fixtures less than 4', and other limitations apply, consult factory. Entire "direct" fixture housing is energized by battery for lengths up to 5'. Half of direct fixture is energized by battery for 6' - 8' housing lengths. Emergency or night light circuit available (requires additional power circuit). Battery fixtures ship with an additional orange "constant hot" wire.

LUMEN MAINTENANCE

90% of initial light output (L90) at 100,000+ hours, 70% of initial light output (L70) at 200,000+ hours.

GENERATOR TRANSFER DEVICES

The GTD emergency lighting control device senses the loss of normal power and switches the AC driver input power connection to an unswitched, generator (or central inverter) supplied lighting circuit. GTD fixtures ship with 3 additional wires (orange wire "constant hot", black-red wire "generator hot", white-red wire "generator neutral").

FIXTURE FINISHES

Standard finish is powder coat painted white (**W**), black (**B**) or silver (**S**). Consult factory for custom (**CC**) RAL colors price and availability. Fixture is also available in an array of hydro-dipped wood grain finishes. Additional price and set-up charges apply and lead time may be longer, consult factory.

INSTALLATION AND MOUNTING

The VL series may be pendant mounted to Acoustical Grid Ceilings (**T1,T9,TS**), Sheet Rock Ceilings (**GP**), and Various Structural Ceilings (**SRS, SRM, SRL**). The product is suspended via adjustable aircraft cable up to 240" from ceiling surface. VL may be individually mounted or continuously mounted in linear configurations or complex geometric patterns. Every VL fixture section requires a remote power supply, some exception apply in individual shapes. Refer to installation instructions at www.nulite-lighting.com for details.

FIXTURE LENGTHS - LINEAR ROWS

Standard fixture lengths for individual or continuous row mounting are available in exact 2'(305mm) increments from 2' (610mm) to 8' (2438mm). Consult factory for custom lengths, limitations apply.

WARRANTY

5-year limited warranty on LED and driver from date of shipment. Refer to the full warranty details on www.nulite-lighting.com/products/184.

WEIGHT

Fixtures are 1.5 lbs/ft, Driver box weights vary, consult factory.

APPROVALS

ETL listed, conforms to UL Standard 1598 / 8750 and CSA Standard C22.2, indoor dry/damp locations.

TESTING PROTOCOLS AND DATA

All of Nulite's LED components have been tested under **LM-80** guidelines insuring 6000 hours of luminous flux data. Additionally Nulite can supply **LM-79** data on all luminaires. This data includes luminous flux, electrical power, efficiency, chromaticity as well as the diffusion of luminous intensity.