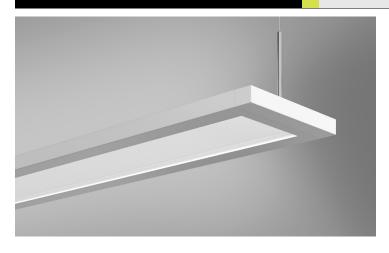


DATE: PROJECT:

CATALOG #: TYPE: QTY:



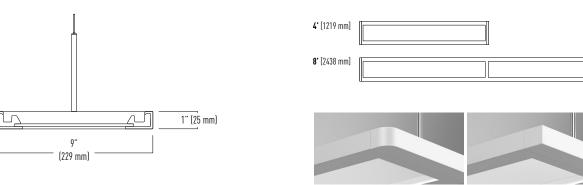
TAVO



Tavo is a modern expression of lighting technology contained within a sleek and elegant form ideally suited for general illumination in office spaces. At Tavo's core is a 4mm edgelit lightguide that deliver exceptional low glare illumination for architectural interiors

- Extruded aluminum housing and die cast aluminum end caps
- May be configured into individual pendants or continuous runs
- Tool free installation with engineered spring latch design
- Available in 3 standard paint finishes
- 5 available lumen packages from 800 to 1900 lumens per ft

Standard Individual Fixture Lengths*



ORDERING INFORMATION / Example: TVS-54-08-L35-UNV-D-11-WH-T1W048

SERIES	LIGHT DISTRIBUTION	LUMENS PACKAGE	CRI/CCT	VOLTAGE	DRIVER	CIRCUITING)/EMERGEN	CY OPTIONS
Pendant Linear LED Luminaire Square End Cap System. TVR Pendant Linear LED Luminaire Round End Cap System.	54 - 54% downlight, 46% uplight 66 - 66% downblight, 34% uplight TC - 100% downlight	08 - 781 lm/ft 10 - 1008 lm/ft 13 - 1256 lm/ft 15 - 1437 lm/ft 19 - 1741 lm/ft XX	L30 - 80 CRI, 3000K L35 - 80 CRI, 3500K L40 - 80 CRI, 4000K H30 - 90 CRI, 3000K H35 - 90 CRI, 3500K H40 - 90 CRI, 4000K	UNV - Universal 120 - 277V 120V - 120V 277V - 277V 347V - 347V	Dimming 0-10V D - Dim to 1% (Standard) D0 - Dim to 1%, Fade to Off D02 - 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%	Oty of Power Circuits 1 - 1 Circuit 2 - 2 Circuits	Oty of Control Circuits 1 - 1 Circuit 2 - 2 Circuits	Options B10 - 10 Watt Battery Pack (CEC Compliant) B15 - 15 Watt Battery Pack (CEC Compliant) GTD - Generator Transfer Device (120V or 277V) EM - Dedicated Emergency Circuit

FIXTURE FINISH

- **WH** White Painted Finish
- **BK** Black Painted Finish
- SV Silver Painted Finish
- **AG** Two Tone Ash Gray Wood Grain
- **BG** Light Black Gunstock Wood Grain
- **EW** Ebony Walnut Wood Grain
- **ST** Delicate Straight Wood Grain

MOUNTING

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)
- **SR**-Structure Mount, Aircraft Cable Suspension
- OR 5 5/0110
- **GP**-5 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 SR i.e."SR-DC")

Mounting Hardware Finish

Finish W -White Canopies and Cord R- Black

B- Black Adjust Canopies Aircr and Cord 240

120 - 120" Adjustable Aircraft Cable **240** - 240" Adjustable Aircraft Cable

Suspension

<u>Length</u>

048 - 48"

Adjustable

Aircraft Cable

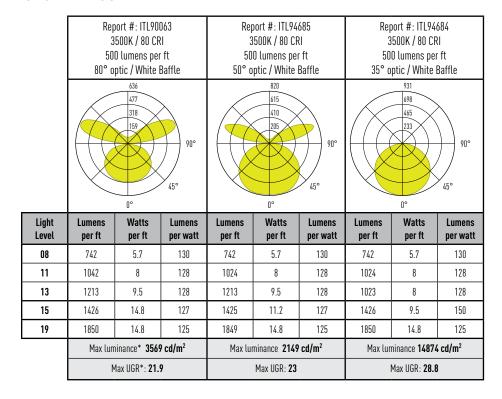
LINEAR ROWS

- **4** 48" **8** - 96"
- XX Specify continuous run lengths in 4' increments

OPTIONS

- **WLX** Wavelinx (Cooper Lighting Solutions) integral sensor
- NX- NX (Hubbel) integral sensor
- **NLT** nLight (Acuity Brands) integral sensor
- LV-Vive (Lutron) integral sensor
- **ENL**-Enlighted Integral Sensor

PHOTOMETRICS



^{*}UGR and luminance values are from light level (08) 800 lumens per ft

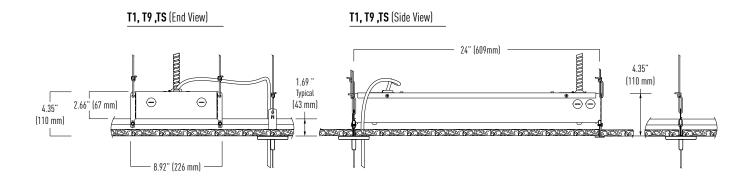
DRIVER INFORMATION

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 Dimmng Curve
L11	Lutron Hi-Lume Premier (PEQOE) Max lumen package 03	0-10v	100% - 0.1%	Hi-lume Premier 0.1% EcoSyetem 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

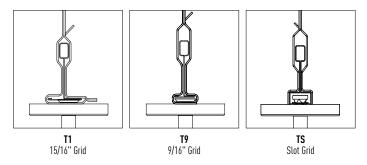


Recessed Grid Ceiling Remote Driver Enclosure

Ceiling Options T1, T9, and TS



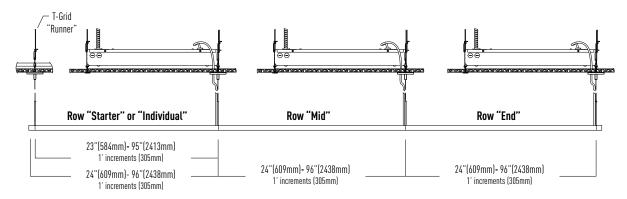
Ceiling Grid Details



Row Layout

Ceiling Options T1, T9, and TS

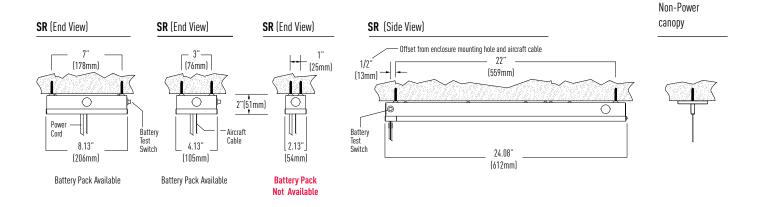
DIMENSIONS FOR AIRCRAFT CABLE SUSPENSION MOUNT LOCATIONS





Surface Mount Driver Enclosures

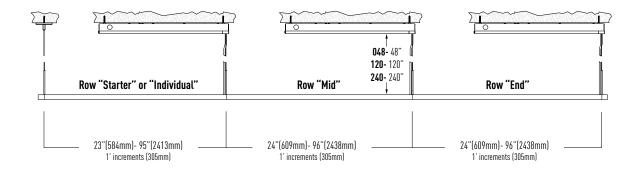
Ceiling Options SR



Row Layout Guidelines

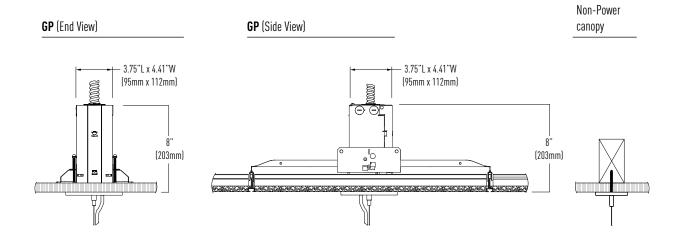
Ceiling Options SR

DIMENSIONS FOR AIRCRAFT CABLE SUSPENSION MOUNT LOCATIONS

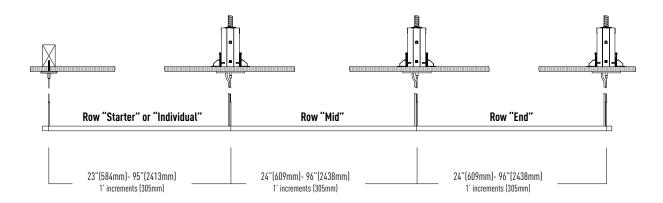


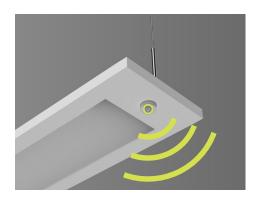


Recessed Canopy Integrated Driver Enclosure for Inaccessible and Grid Ceilings Ceiling Option GP



Row Layout Guidelines Ceiling Option GP





OEM Connected Lighting Partners

Nulite has formed strategic partnerships with premier OEM suppliers of smart lighting control platforms. Nulite's focus is primarily on embedded fixture level smart sensors and power supplies ensuring system operability and code compliance.

Benefits of an OEM Supplier

- Factory trained and certified to assemble and test product operability prior to shipment
- Authorized to purchase components, inventory on hand for shorter lead times compared to non-partners
- UL listed as an entire fixture assembly

Wavelinx (WLX)	N MORE	lı	ntegra	al Ser	nsor ()ptio	ıs	Nulite Compatible Product Lines													
Cooper Lighting Solutions Integral Fixture Sensors	15	Dimming Control	DALI Dimming Control	IP rated (Outdoor)	Wireless Control	Daylight Harvesting	Occupancy Sensing	LA Series	lo 1	lo 2	to 4	lo 6				e)				ce	
Item Description	0EM Part #	0-15	DALI	IP rat	Wirel	Daylig	Occup	LA Se	Regolo 1	Regolo 2	Regolo	Regolo	RZ4	RXT	Pixie	Sottile	Tavo	Sero	Onp	Bounce	IN
Wavelinx Ambient Integrated Sensor, 8-15ft (2.4-4.6m)	OEM-WAA	•			•	•	•	•	•	•	•	•					•	•	•		
Wavelinx Industrial Mount Sensor, White, up to 40ft (4.5 - 12.2m)	OEM-SWPD3-WH	•		•	•	•	•														•
Wavelinx Outdoor Fixture	OEM-SWPD5-WH/ BK/BZ	•	•	•	•	•	•							•							

Additional Notes:

- Nulite is OEM certified and authorized to purchase and install Wavelinx components into their luminaires. All products are fully tested at the Nulite factory and each product ships with UL compliance.
- Ordering Example: Nulite Catalog #: TVS-54-08L35-1C-U-D-W-W-T1/48-4. This catalog designation merely identifies luminaires that require Wavelinx compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with Wavelinx on these items and build into the price accordingly.
- Nulite's standard 0-10v LED drivers are Signify Xitanium Series, and Osram Optotronic Series.

nLight (NL)	N MORE		In	itegra	l Sen	sor ()ptior	18		Nulite Compatible Product Lines													
Acuity Brands	79	0-10v Dimming Control	DALI Dimming Control	0-10v LEDcode*)code*	IP rated (Outdoor)	Wireless Control	Daylight Harvesting	Occupancy Sensing	es	1	2	4	9									
Integral Fixture Sensors Item Description	0EM Part #	0-10v Di	DALI Din	0-10v L	DALI LEDcode*	IP rated	Wireless	Daylight	Оссираг	LA Series	Regolo 1	Regolo 2	Regolo 4	Regolo	RZ4	RXT	Pixie	Sottile	Tavo	Sero	a	Bounce	¥
Indoor Embedded 360° Motion Sensor	MSD PDT 7**	•						•	•	•	•	•	•	•					•	•	•		П
Fixture embedded smartsensor	RES7	•		•			•	•	•	•	•	•	•	•					•	•	•		
Passive infrared occupancy sensor	nES7	•						•	•	•	•	•	•	•					•	•	•		
Dimming Photocell	nES ADCX	•						•		•	•	•	•	•					•	•	•		
nLight AIR Outdoor 360° Embedded Motion Sensor	rMSOD	•		•			•	•	•							•							
Fixture embedded smartsensor for challenging environments	rSBG	•		•		•	•	•	•							•							
nLight AIR Fixture Mount Sensor	rLSXR	•				•	•	•	•														

Additional Notes:

- Nulite is authorized to purchase and install nLight components into their luminaires. All products are fully tested at the Nulite factory and each product ships with UL compliance.
- Ordering Example: Nulite Catalog #: TVS-54-08L35-1C-U-D-W-W-T1/48-4. This catalog designation merely identifies luminaires that require NX compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with nLight on these items and build into the price accordingly.

 Ordering Example: NV compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with nLight on these items and build into the price accordingly.
- *Proprietary Acuity Brands LEDcode drivers are required for nLight system programming and operation.



OEM Connected Lighting Partners

NX (NX)		lr	ntegra	al Ser	sor ()ptior	18				1	lulite	Com	patib	le Pro	oduct	Line	s			
Distributed Intelligence Hubbell Integral Fixture Sensors	5	0-10v Dimming Control	DALI Dimming Control	P rated (Outdoor)	Wireless Control	Daylight Harvesting	Occupancy Sensing	LA Series	Regolo 1	Regolo 2	Regolo 4	Regolo 6				le				ice	
Item Description	0EM Part #	é	DALI	IP rat	Wirel	Dayli	Occu	LAS	Rego	Rego	Rego	Rego	RZ4	RXT	Pixie	Sottile	Tavo	Sero	Oub	Bounce	¥
HubbNET Radio Module	NXRM-H	•			•			•	•	•	•	•					•	•	•		
Low Mount Indoor Sensor Module	NXSM-P-LMI	•			•	•	•	•	•	•	•	•					•	•	•		
OMNI Indoor/Outdoor Sensor Module	NXSM-P-OMNI-O	•		•	•	•	•							•							
Slide Mount Indoor Sensor Module	NSXM-P-SMI	•			•	•	•	•	•	•	•	•					•	•	•		
Low Mount Indoor/Outdoor Sensor Module	NXSM-P-LM0	•		•	•	•	•							•							•
Low Mount Indoor/Outdoor Sensor Module, Air Lens	sle NXSM-P-LMO-4	•		•	•	•	•							•							•
High Mount Indoor/Outdoor Sensor Module	NXSM-P-HM0	•		•	•	•	•														•
High Mount Indoor/Outdoor Sensor Module, Aisle Lens	NXSM-P-HM0-4	•		•	•	•	•														•

Additional Notes:

- Nulite is an OEM certified nX partner and authorized to purchase and install NX components into their luminaires. All products are fully tested at the Nulite factory and each product ships with UL compliance.
- Ordering Example: Nulite Catalog #: TVS-54-08L35-1C-U-D-W-W-T1/48-4. This catalog designation merely identifies luminaires that require NX compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with the Hubbell on these items and build into the price accordingly.
- Nulite's standard 0-10v LED drivers are Signify Xitanium Series, and Osram Optotronic Series.

Enlighted (Enl)	LEARN MORE		ntegr	al Sei	nsor (Optio	ns	Nulite Compatible Product Lines													
A Siemens Company Integral Fixture Sensors		v Dimming Control	DALI Dimming Control	IP rated (Outdoor)	Wireless Control	Daylight Harvesting	Occupancy Sensing	LA Series	Regolo 1	ılo 2	Regolo 4	9 0)1				e e				eol	
Item Description	0EM Part #	0-10v	DALI	IP rat	Wirel	Daylii	Occul	LAS	Rego	Regolo 2	Rego	Regolo 6	R24	RXT	Pixie	Sottile	Tavo	Sero	Oub	Bounce	¥
MicroSensor,2-wire Adaptor	KIT-SU-5E-D-*		•		•	•	•	•	•	•	•	•					•	•	•		
High Bay Sensor, 2-wire	SU-5S-2W-H-*		•		•	•	•														•
Ruggedized High Bay, 2-wire, White	SU-5S-2W-HRV	I-*	•	•	•	•	•														•
Ruggedized Low Bay, 2-wire, White	SU-5S-2W-LRW	·*	•	•	•	•	•							•							

Additional Notes:

- Nulite is OEM certified and authorized to purchase and install Enlighted components into their luminaires. All products are fully tested at the factory and each product ships with UL compliance.
- Ordering Example: Nulite Catalog #: TVS-54-08L35-1C-U-D-W-W-T1/48-4. This catalog designation merely identifies luminaires that require Enlighted compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with the Enlighted on these items and build into the price accordingly.
- Standard eldoLED Solodrive DALI drivers with integral power supply will be supplied with Enlighted enabled luminaires.

│ Vi	ve (LV)	N MORE	Integral Sensor Options							Nulite Compatible Product Lines												
Lutro		€D	/ Dimming Control	Dimming Control	ated (Outdoor)	ess Control	Daylight Harvesting	Occupancy Sensing	LA Series	Regolo 1	olo 2) lo 4	olo 6			6	ile				106	
It	em Description	0EM Part #	0-10	DALI	IP ra	Wireless	Dayli	Occu	LAS	Reg	Regolo	Regolo	Regolo	RZ4	RXT	Pixie	Sottile	Tavo	Sero	9mp	Bounce	¥
Vi	ive Integral Fixture Control with Sensor	DFCSJ-0EM-0CC		•		•	•	•	•	•	•	•	•					•	•	•		
Vi	ive Integral Fixture Control (RF only)	DFCSJ-0EM-RF		•		•			•	•	•	•	•					•	•	•		

Additional Notes:

- Nulite is OEM certified and authorized to purchase and install Lutron components into their luminaires. All products are fully tested at the Nulite factory and each product ships with UL compliance.
- Ordering Example: Nulite Catalog #: TVS-54-08L35-1C-U-D-W-W-T1/48-4. This catalog designation merely identifies luminaires that require Lutron compatible integral fixture sensors. Additional hardware such as power packs and wiring harnesses are often often required to operate sensors and offer compatibility to the overall control system. Nulite will coordinate with the Lutron on these items and build into the price accordingly.
- Standard eldoLED Solodrive DALI drivers with integral power supply will be supplied with Enlighted enabled luminaires.
- Recommended drivers for DFCSJ-0EM-0CC: Lutron Ecosystem, Osram Dexal DALI drivers, or Signify Xitanium DALI drivers.



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. **SR** remote 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 24 Ga steel, and **GP** sheet rock enclosures are formed out of 22Ga galvanized steel.

LEDS AND OPTICAL SYSTEM

Optical system consists of two rows of mid-power constant current LEDs coupled to a 4mm acrylic optical light guide. LEDs are mounted to a removable sheet metal assemby. Lightguide delivers a direct-indirect light pattern with a low glare smooth uniform light distribution.

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 set light outputs are programmed to within +/- 5% of the nominal light level at 3500K 80 CRI LEDs. Light output, wattage, and efficacy will vary across different CRI's CCT's. Refer to ies files on the website for actual detailed lighting peformance 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 bidirect 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", blackred 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 hydo-dipped finishes and custom colors as these options carry extended lead times and price adders to cover set-up and material costs.

INSTALLATION AND MOUNTING

Pendant luminaires mount to Acoustical Grid Ceilings **(T1,T9,TS)**, Sheet Rock Ceilings **(GP)**, and Various Structural Ceilings **(SR)**. Luminaire power supplies are remote mounted above the ceiling or onto the ceiling surface. Each luminaire requires an dedicated remote power supply. The product is suspended with adjustable aircraft cable up to 240" from ceiling surface. Luminaires may be individually mounted or continuously mounted in linear configurations or complex geometric patterns. Refer to data sheets and installation instructions for details on fixture dimensions, mounting location dimensions and available luminaire configurations.

WARRANTY

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

WEIGHT

Fixtures are 3.25 lbs/ft, Driver box weights vary per enclosure type and electrical configuration, consult factory.

APPROVALS

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

TESTING AND CERTIFICATION

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.