

LUMIFORM STAINLESS LIGHT STRIP XL

SILICONE 24V: STATIC PWM



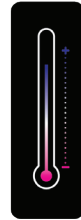
UL2108 CLASS 2

CE-EMC

10 YEAR WARRANTY

24V DC

Temperatures



AMBIENT
OPERATING

9 + 8W/M: -40°F TO 140°F (-40°C TO 60°C)
≥ 12W/M: -40°F TO 131°F (-40°C TO 55°C)

THERMAL
MANAGEMENT
FREE AIR CONVECTION



AMBIENT
INSTALLATION

≥ -40°F (-40°C)



FIXTURE
STORAGE

-40°F TO 140°F
(-40°C TO 60°C)



MAX MOUNTING
SURFACE

185°F (85°C)



HUMIDITY NON
CONDENSING

0-95%

Physical Attributes



FLAME
RESISTANT



UV
RESISTANT



SOLVENT
RESISTANT



SALT
RESISTANT



INDOOR/
OUTDOOR



DIMMABLE



RDM/DMX



IK 10
PROTECTION*

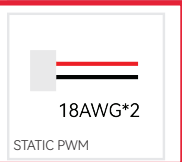


IP 67
PROTECTION*

* The highest achievable IP rating with appropriate connector accessories & The highest achievable IK rating with appropriate mounting accessories.

Note: Lumen Maintenance: 70,000 Hours L70 @ 25°C : 90,000 L50 @ 25°C 50,000 Hours L70 @ 50°C : 70,000 Hours L50 @ 50°C

Wiring: LED Functions



Note: Cable diameter: Silicone Static = 0.26in (6.5mm)

Connectors Available

Silicone Seamless.

Mounting Profiles Available

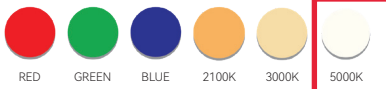
Stainless In-Ground 2mm Profile and Stainless In-Ground 3mm Profile.

New Order Code

I	1	J	2	T	1	B	1	G	2C	F
SERIES	MATERIAL	PROFILE	BENDING	JACKET/BASE + LENS COLOR	LED FUNCTION	LED COLOR	CHIP + CRI	POWER	VOLTAGE	ORDER UNIT LENGTH
I = Lumiform Stainless Steel	1 = Silicone	J = Light Strip XL	2 = Top	T = White + Transparent	1 = Static	B = Blue C = Green E = Red G = 2100K L = 3000K P = 5000K	1 = Epistar SMD LED 2 = Epistar SMD LED + CR180	D = 2.43W/ft (8W/m) E = 2.7W/ft (9W/m) G = 3.66W/ft (12W/m)	3V = 24V DC CV (Constant Voltage) 2C = 24V DC CC (Constant Current)	E = 0.66in (16.7mm) F = 3.28in (83.3mm)

STATIC: WHITES + COLORS - WHITE+TRANSPARENT

LED Colors



Jacket Color



Order Codes

NEW ORDER CODE	LEGACY ORDER CODE	COLOR
I1J2T1B1G2CF	SS20IC122WE21K24DVG	BLUE
I1J2T1C1G2CF	SS20IC122WEGRE24DVG	GREEN
I1J2T1E1D2CF	SS20IC082WERED24DVG	RED
I1J2T1G2E3VE	SS20IC092WE21K24DLG	2100K
I1J2T1G2G2CF	SS20IC122WE21K24DVG	2100K
I1J2T1L2E3VE	SS20IC092WE30K24DLG	3000K
I1J2T1L2G2CF	SS20IC122WE30K24DVG	3000K
I1J2T1P2E3VE	SS20IC092WE50K24DLG	5000K
I1J2T1P2G2CF	SS20IC122WE50K24DVG	5000K

Electrical

COLOR	VOLTAGE	POWER CONSUMPTION
BLUE	24V DC CC	3.66W/ft (12W/m)
GREEN	24V DC CC	3.66W/ft (12W/m)
RED	24V DC CC	2.43W/ft (8W/m)
2100K	24V DC CV	2.74W/ft (9W/m)
2100K	24V DC CC	3.66W/ft (12W/m)
3000K	24V DC CV	2.74W/ft (9W/m)
3000K	24V DC CC	3.66W/ft (12W/m)
5000K	24V DC CV	2.74W/ft (9W/m)
5000K	24V DC CC	3.66W/ft (12W/m)

Fixture Specifications

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC	2 CONNECTORS FULL/DYNAMIC	ORDER UNIT (CUTTING UNIT)
BLUE	Epistar SMD LED Chip	25LEDs/ft (84LEDs/m)	49.2ft (15m) / N/A	98.43ft (30m) / N/A	3.28in (83.3mm)
GREEN	Epistar SMD LED Chip	25LEDs/ft (84LEDs/m)	49.2ft (15m) / N/A	98.43ft (30m) / N/A	3.28in (83.3mm)
RED	Epistar SMD LED Chip	25LEDs/ft (84LEDs/m)	65.6ft (20m) / N/A	131.2ft (40m) / N/A	3.28in (83.3mm)
2100K	Epistar SMD LED Chip + CRI80	18LEDs/ft (60LEDs/m)	65.6ft (20m) / N/A	131.2ft (40m) / N/A	0.66in (16.7mm)
2100K	Epistar SMD LED Chip + CRI80	25LEDs/ft (84LEDs/m)	49.2ft (15m) / N/A	98.43ft (30m) / N/A	3.28in (83.3mm)
3000K	Epistar SMD LED Chip + CRI80	18LEDs/ft (60LEDs/m)	65.6ft (20m) / N/A	131.2ft (40m) / N/A	0.66in (16.7mm)
3000K	Epistar SMD LED Chip + CRI80	25LEDs/ft (84LEDs/m)	49.2ft (15m) / N/A	98.43ft (30m) / N/A	3.28in (83.3mm)
5000K	Epistar SMD LED Chip + CRI80	18LEDs/ft (60LEDs/m)	65.6ft (20m) / N/A	131.2ft (40m) / N/A	0.66in (16.7mm)
5000K	Epistar SMD LED Chip + CRI80	25LEDs/ft (84LEDs/m)	49.2ft (15m) / N/A	98.43ft (30m) / N/A	3.28in (83.3mm)

Optical Parameters

COLOR BREAKDOWN	FIXTURE COLOR TOLERANCE	WAVELENGTH/CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT
BLUE	N/A	468-474nm	N/A	N/A	15lm/ft (50lm/m)
GREEN		522-528nm			98lm/ft (320lm/m)
RED		618-624nm			29lm/ft (95lm/m)
2100K		2150+150K			64lm/ft (210lm/m)
2100K		2150+150K			98lm/ft (320lm/m)
3000K		3050+300K			81lm/ft (265lm/m)
3000K		3050+300K			128lm/ft (420lm/m)
5000K		5000+450K			79lm/ft (260lm/m)
5000K		5000+450K			128lm/ft (420lm/m)

SILICONE SEAMLESS CONNECTOR



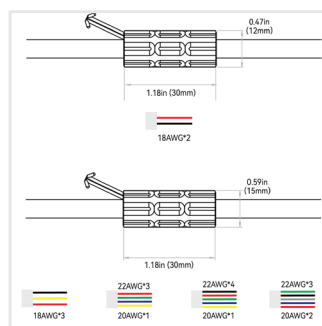
IP68; seamless; precise low profile dimension; high grade quality silicone & anti-wicking ferrule. Recommended for; wet environments; custom predetermined lengths; high/ low temperatures; increased humidity; direct UV exposure; harsh working conditions & increased handling forces during installation. Precision milling and special glue Silicone liquid injection-moulded workmanship enables an almost consistent size between connectors and light body, and the transparent terminal of the connector allows the seamless effects spliced end by end. DryWire technology applied on the cable eliminates the capillary phenomenon through wires, which secured the long-term reliability in outdoor or any wet environments. Custom factory assembly.



NOTES:

1. Connector Tolerance ± 0.02 in (0.5mm)
2. Cable diameter: Silicone Static; Dyanamic White; RGB; and RGBW = 0.26in (6.5mm); Direct DMX = 0.27in (6.8mm)
3. Do not apply force to the feed cable
4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

Anti-wicking Ferrule:



- NOTES: 1. The anti-wicking ferrule is located at 4.53in (115mm) (± 0.39 in [± 10 mm]) tolerance from the connector on the cable. For protection against water ingress.
2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.

New Connector Order Code:

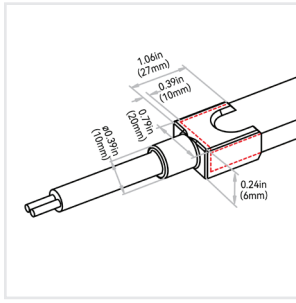
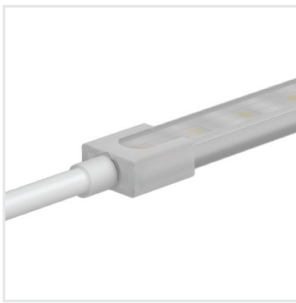
Will be displayed: Connector Order Code (01 exit) + Fixture Order Code + Connector Order Code (02 exit)

2	A	#
CONNECTOR TYPE	ORIENTATION + TYPE	CABLE LENGTH (LEAD WIRE)
2 = Silicone Seamless X = Custom	A = End Exit B = Bottom Exit C = Side Left Exit D = Side Right Exit E = End Jumper H = Power T-Feed V = Barrel Connector Male W = Barrel Connector Female X = Custom	1 = 0.98ft (0.3m) 2 = 3.28ft (1m) 3 = 9.84ft (3m) 4 = 16ft (5m) 5 = 32.81ft (10m) 6 = 49.21ft (15m) 7 = 65.62ft (20m) 8 = N/A X = Custom

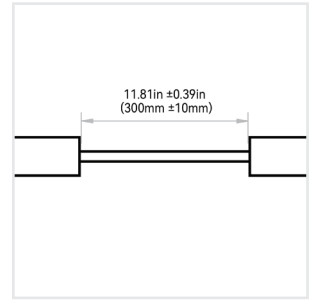
Legacy Connector Order Code:

SS	20I	1	00	XX	SE	X	X	X	S
PRODUCT TYPE	PROFILE	BENDING	LIGHT EMITTING	FUNCTIONALITY	CONNECTOR TYPE	FIXTURE END	EXIT TYPE	LENGTH	
SS = Factory Accessories	20I = LightStrip XL	1 = Top	00 = 20I	2W = Static 3W = Pixel/ Dynamic White 4W = RGB 5W = RGBW 5D = DMX 0W = For End Cap	SE = Silicone Seamless	1 = Input Side 2 = Output Side 0 = Jumpers/T-feeds/ Seamless Bottom/ Seamless End	EN = End BO = Bottom SL = Side Left SR = Side Right EJ = End Jumper BJ = Bottom Jumper TF = Power Feed EC = End Cap	0M3 = 0.98ft (30cm) 01M = 3.28ft (1m) 03M = 9.84ft (3m) 05M = 16ft (5m) 10M = 32.81ft (10m) 000 = For End Cap	S = Signal & Power P = Power or For End Cap

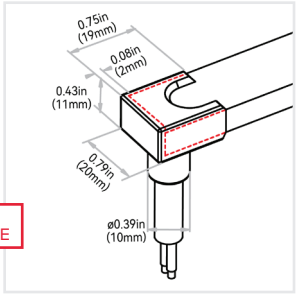
End Exit: 2-A-#



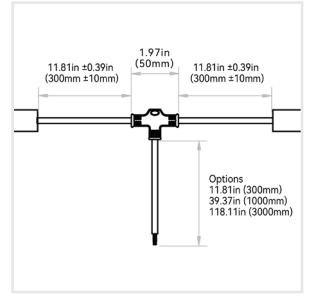
End Jumper: 2-E-1



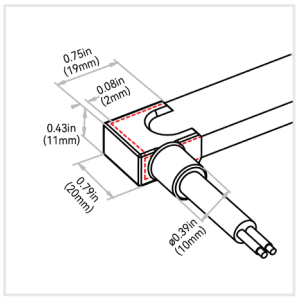
Bottom Exit: 2-B-#



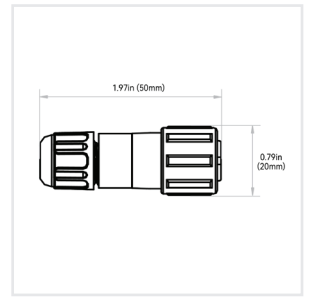
Power T-Feed: 2-H-#



Side Left Exit: 2-C-#

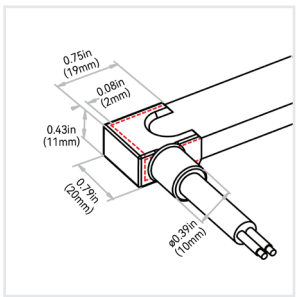


Barrel Connectors - IP67: 2-(V or W)-#

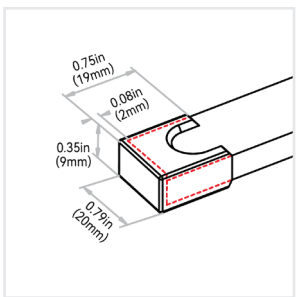


NOTE: The tolerance is ± 0.08 in (2mm).

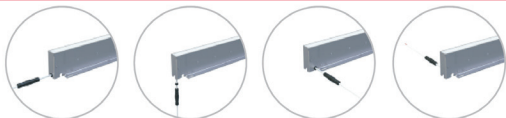
Side Right Exit: 2-D-#



End Cap: 2-I-8



STAINLESS STEEL INGROUND RIGID HEAVY DUTY PROFILE



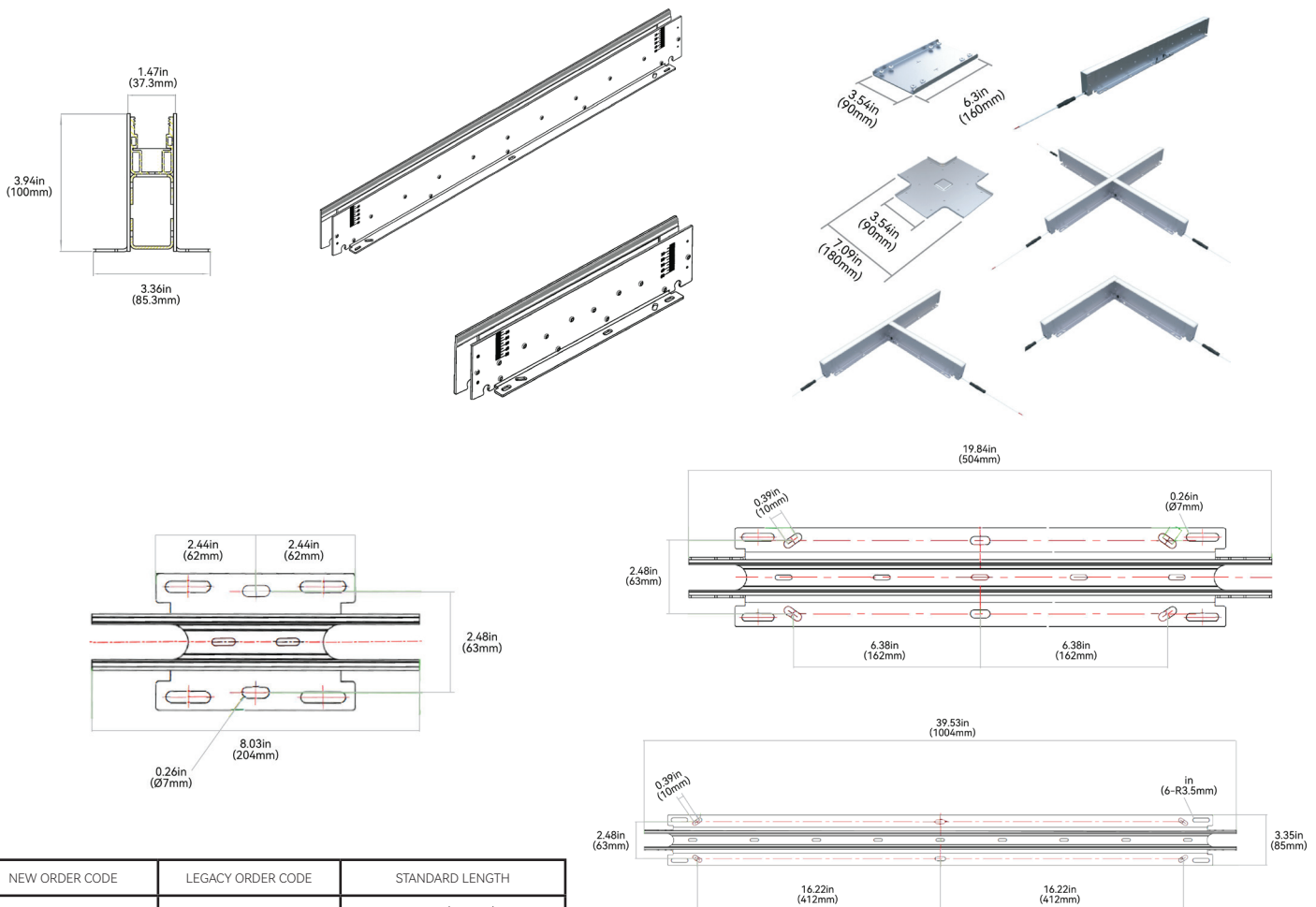
Dimensions

Stainless Steel is suitable for 10 tonnes weight rated, for Parking Lots, Squares, Fountains, Gardens, Sidewalks, and more. Where frequently being impacted by vehicles, splashing water or water soaking. Featured raceway channel for neat wiring. Evenly mixed by the continuous opal silicone diffuser, it comes up with soft, seamless, dotfree, and glare-free illumination, ensuring a visual comfort in tune with the scenario at night. The sophisticated structure dramatically lowers the maintenance cost as the inside LED strip is replaceable without damage to the mounting profile.

Please refer to install manual for proper installation practices.

New Mounting Profile Order Code:

S3	#	J
MOUNTING PROFILE TYPE	STANDARD LENGTH	PROFILE
S3 = Stainless Steel In-Ground Rigid Heavy Duty	7 = 8.03in (204mm) 8 = 19.84in (504mm) 9 = 39.53in (1004mm)	J = Vivid Light Strip XL



NEW ORDER CODE	LEGACY ORDER CODE	STANDARD LENGTH
S3-7-J	CH20IRAP0M2RIGH	8.03in (204mm)
S3-8-J	CH20IRAP0M5RIGH	19.84in (504mm)
S3-9-J	CH20IRAP01MRIGH	39.53in (1004mm)



LUMIFORM RIGID

Installation Manual

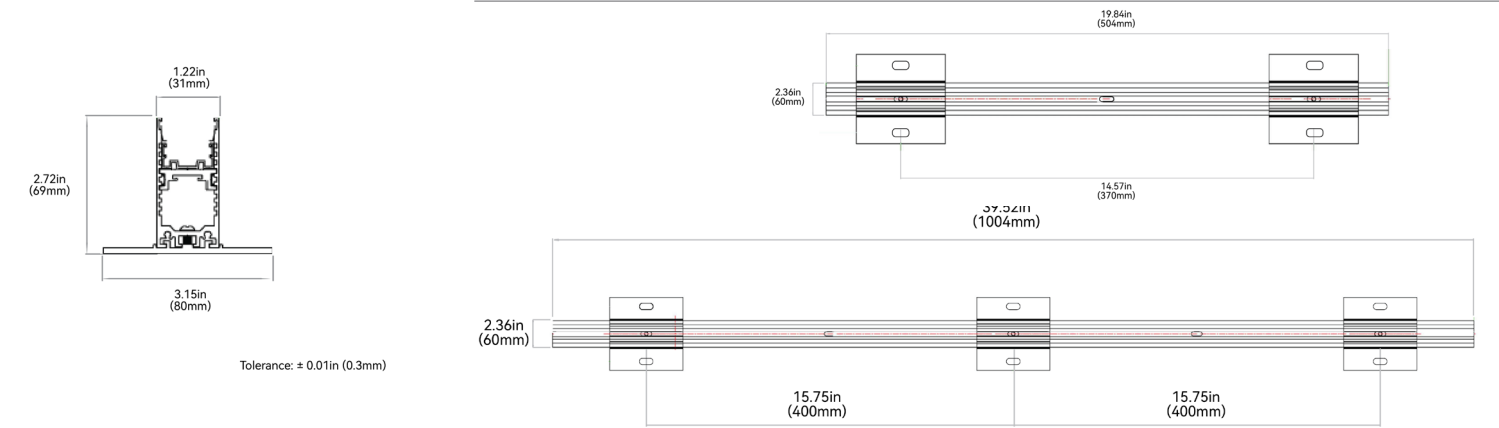
Version 1.0 - May 2025



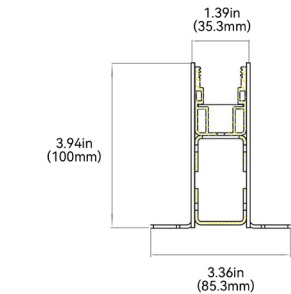
Dimensions & Available Lengths

ALUMINUM INGROUND RIGID

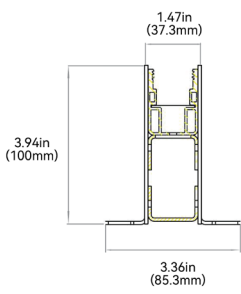
AVAILABLE LENGTHS



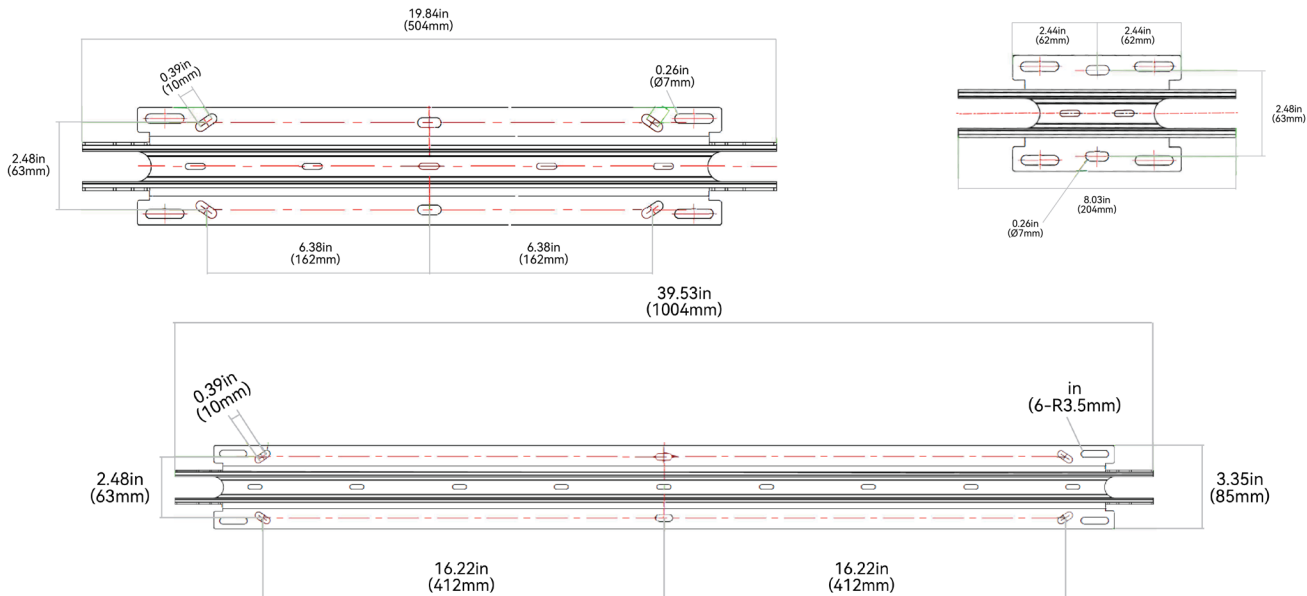
STAINLESS STEEL INGROUND RIGID



STAINLESS STEEL INGROUND RIGID HEAVY DUTY

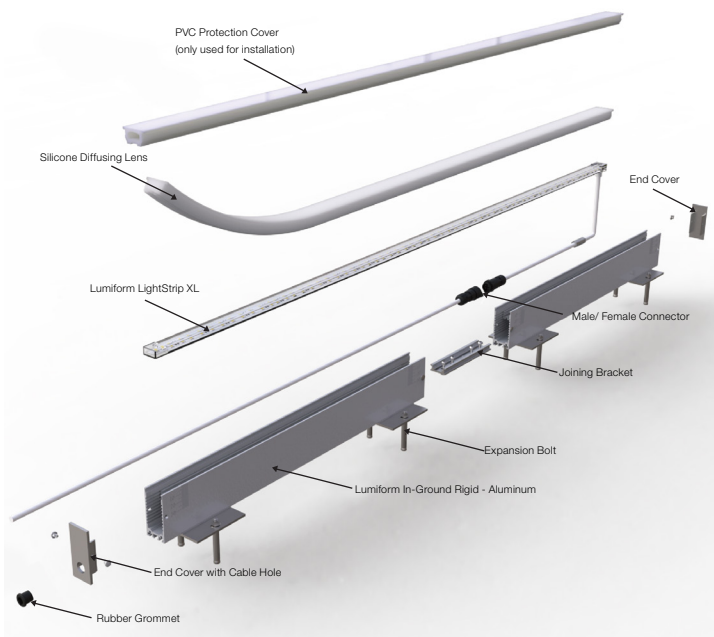


AVAILABLE LENGTHS

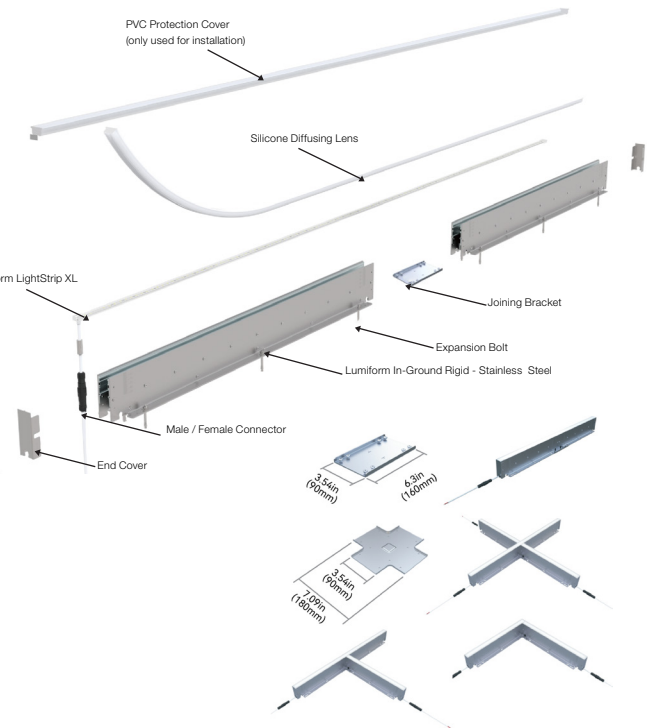


Components

ALUMINUM COMPONENTS



STAINLESS STEEL COMPONENTS



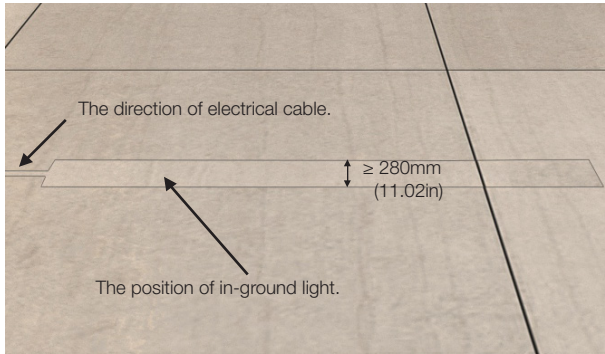
INSTALLATION WARNINGS

- Disconnect power before installation.
 - Always ground the mounting channel and conduit system in accordance with local and national electrical codes.
 - For optimal light output, keep the fixture surface clear and free from dirt, dust, plants, leaves, and any other kind of obstruction before placing silicone lens. This in-ground channel solution is suitable for poured concrete, and masonry installations.
 - Not suitable for underwater use. Avoid installing in low-lying areas or ground depressions where water may collect. Ensure proper drainage around the base and sides of the luminaire.
 - If installation in a low-lying area is unavoidable, a dedicated drainage system must be installed to prevent the luminaire from prolonged exposure to standing water.
 - Use a continuous length of electrical cable whenever possible. Joints can be vulnerable to water ingress and may compromise the integrity of the installation.
 - The dimensions provided in this manual are for reference only. Please adjust them according to the actual foundation structure.
- Key installation principles:
- a. The top of the in-ground light should be flush with the ground surface after installation.
 - b. The base of the in-ground light can drain threshold allow water to drain through a permeable layer.
 - c. The foundation must be stable and strong enough to prevent settling or shifting due to foot traffic, vehicle loads, weather conditions, and natural ground movement such as expansion and contraction.

Installation

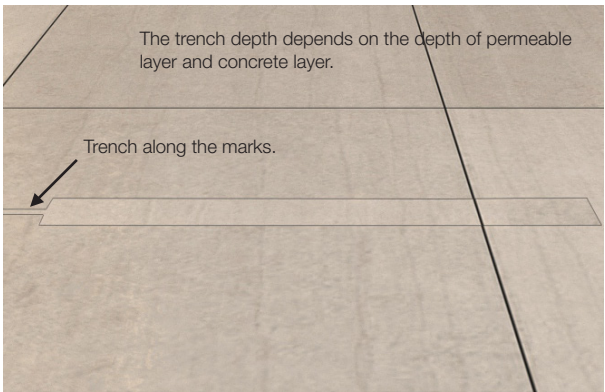
STEP 1:

Marking and Cutting. *For pre-existing retrofit installation.

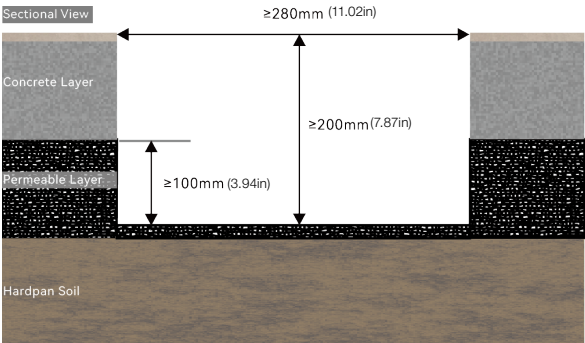


STEP 2:

Trench Layout

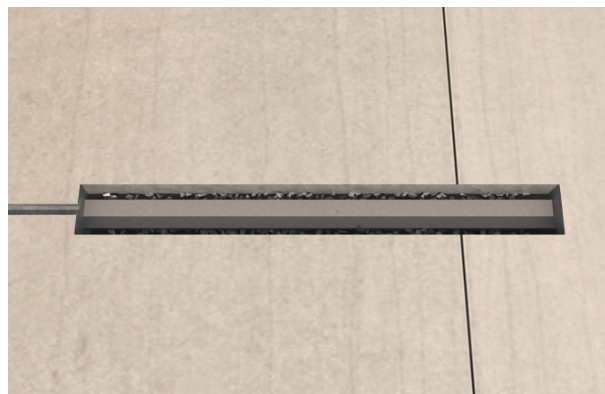


Trench depth of the permeable layer: Keep it at least 100mm to ensure a good drainage.

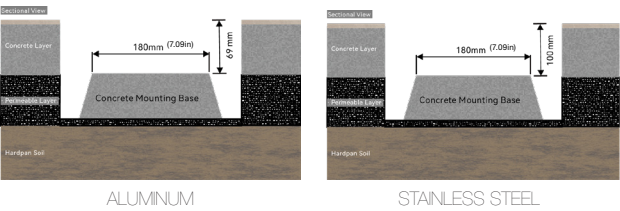


STEP 3:

Build a concrete mounting base for the in-ground mounting channel.



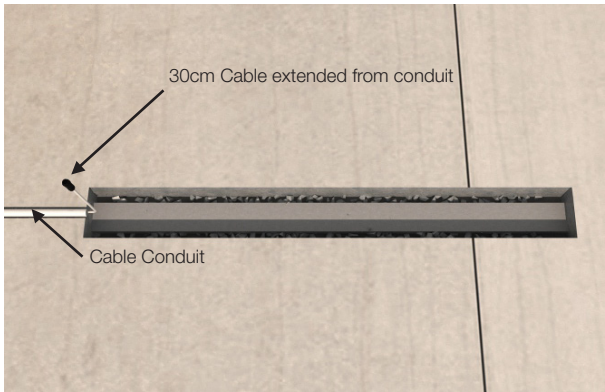
Ensure the concrete mounting base is level and thick enough to securely support expansion bolts for in-ground channel installation.



Installation Continued

STEP 4:

Cable Routing

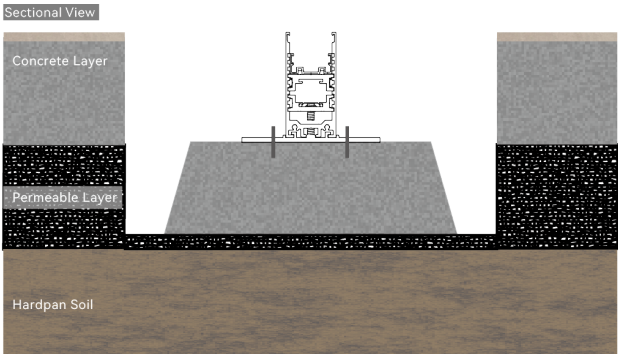


STEP 5:

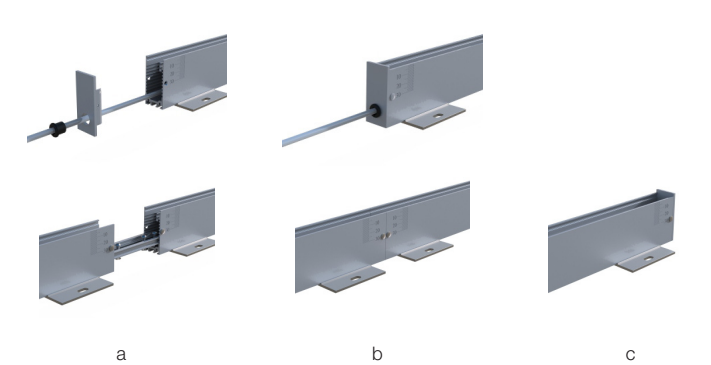
Attach in-ground mounting channel



Use the expansion bolts to attach the housing beginning from the power input end.



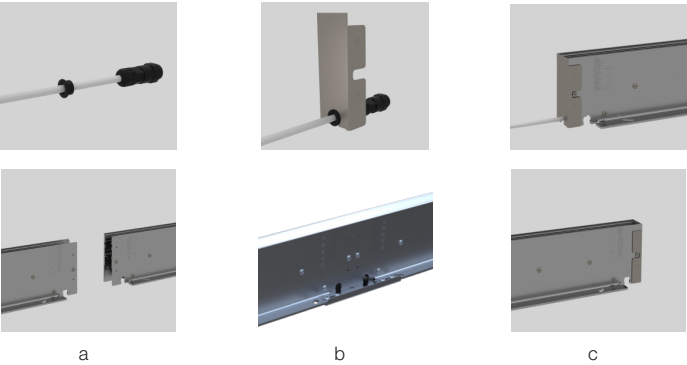
ALUMINUM



Make sure the end cover is in place when feeding the electrical cable into the housing.

- a. Fix the housing orderly and extend more lengths as desired.
- b. Align the housings and then connect them via joining brackets.
- c. Cap the end.

STAINLESS STEEL



LUMIFORM RIGID

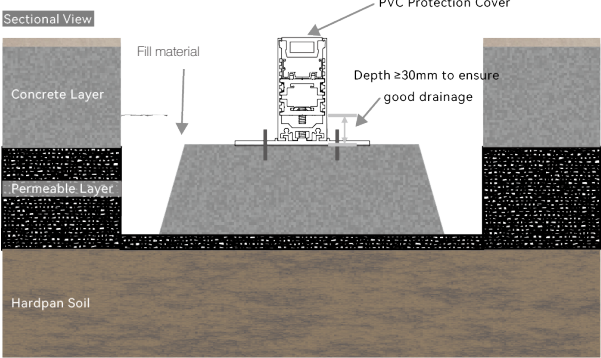
Installation Continued

STEP 6:

Compress surrounding area with permeable fill material and compact it.

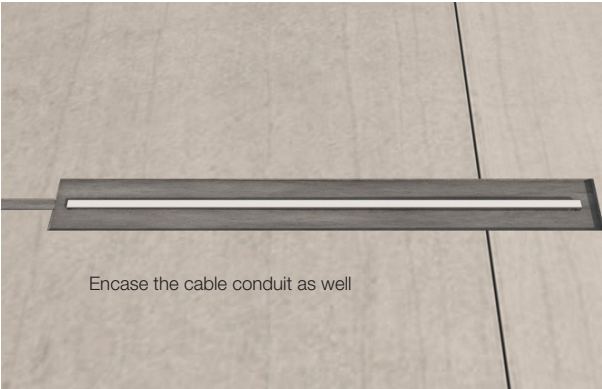


Remember to seal the top of the housing with the PVC protection cover before pouring any fill material.

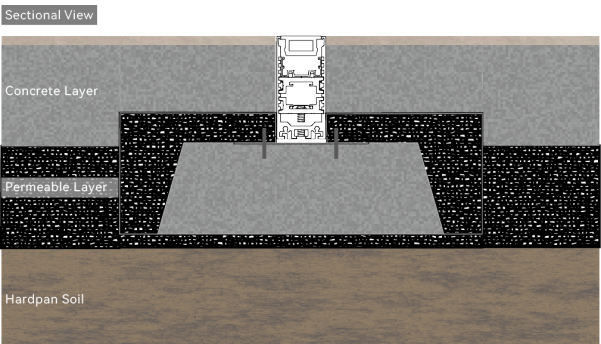


STEP 7:

Encase with concrete

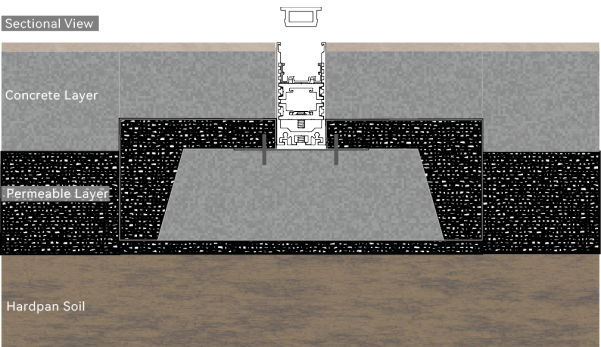
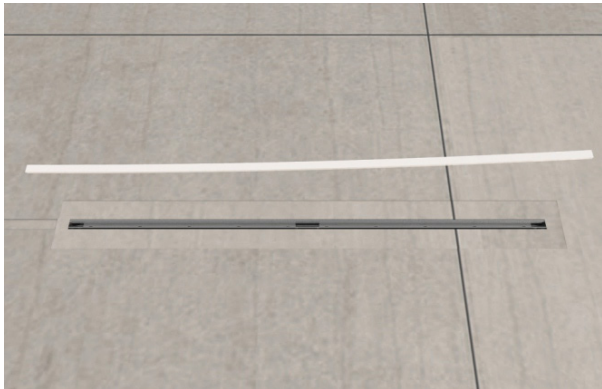


If performing a retrofit, restore the ground surface using the original flooring materials.



STEP 8:

Remove the PVC Protection Cover



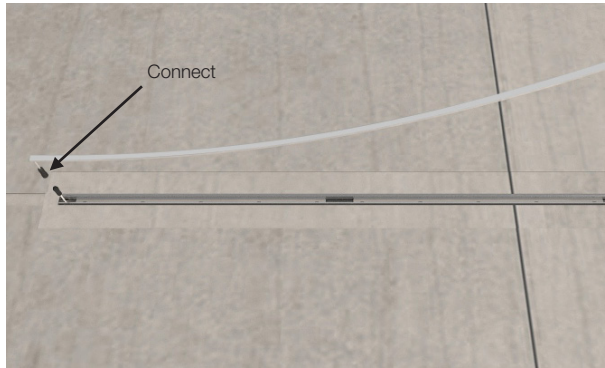
LUMIFORM RIGID



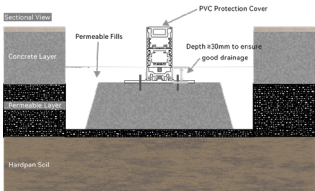
Installation Continued

STEP 9:

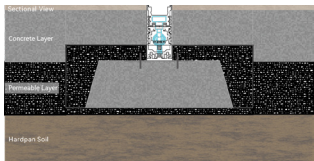
Mount the light fixture, then turn on the power to test the installation



Connect the cable from the conduit with the lead wire of the light fixture. Insert the luminaire starting from the power input end. Verify all wiring connections before powering on.



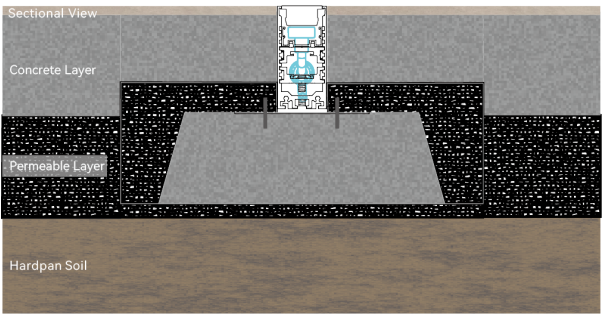
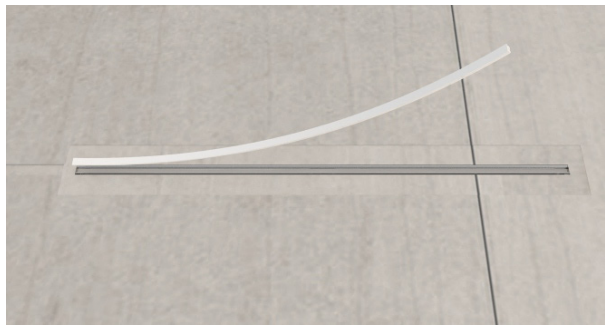
ALUMINUM



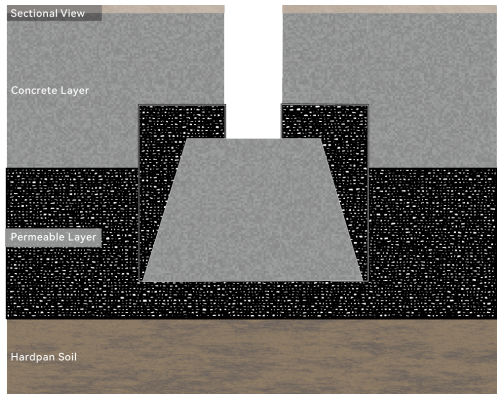
STAINLESS STEEL

STEP 10:

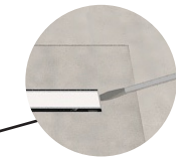
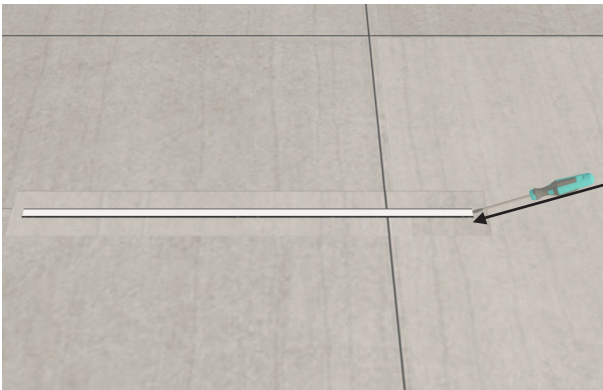
Complete installation by installing the Silicone Diffusing lens after confirming light function.



ADDITIONAL INFORMATION



If the concrete back is too thick, deepen the trench depth in order to ensure the bottom of the in-ground mounting channel is located in the permeable layer.



In order to remove lens, carefully use a trench screwdriver to lever the silicone diffusing lens from the gap at the end.



Constant Voltage Dimmable LED Driver**Output**

DC Voltage	24V
Voltage Accuracy	±0.5V
Voltage Regulation	±0.5%
Rated Current	6.25A
Load Regulation	±1%
Rated power	150W

Input

Voltage Range	100-277VAC
THD (Typ. @ Full Load)	<20%
AC Current (Max.)	1.8A/110VAC
Frequency Range	47~63Hz
Inrush Current	15A, 50%, 1.4ms @120VAC, 30A, 50%, 1.4ms@277VAC
Leakage Current	<0.50mA
Power Factor (Typ.)	0.97@120VAC, 0.94@277VAC
Efficiency (Typ. @ full load)	85% @ 120VAC / 87% @ 277VAC

Protection

Over temperature	100°C±10°C shuts down o/p voltage, automatically recovers after cooling
Short Circuit	Shuts down o/p voltage, re-power on to recover after fault condition is removed
Over Loading	≤120% constant current limiting, auto-recovery

Environment

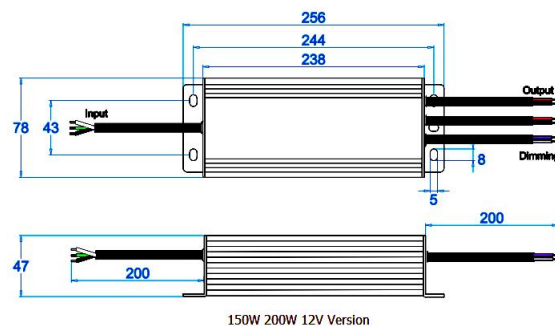
Working Temp.	-40°F ~ 140°F (-40°C ~ +60°C) - cooling by free air convection
Working Humidity	20-90% RH, Non-Condensing
Storage Temp	-40°F ~ 176°F (-40°C ~ 80°C) - Humidity 10~95% RH
Temp. Coefficient	±0.03%/°C (0°C-50°C)
Vibration	10-500Hz, 2G 10min / 1 cycle period for 60min. each along X,Y,Z axes

Safety & EMC

Safety standards	UL8750, CAN/CSA-C22.2 No. 250.13
Withstand voltage	I/P-O/P: 1.88KVac
Isolation resistance	I/P-O/P 100MΩ/500VDC/25°C/70%RH
EMC Emission	FCC 47 CFR Part 15, Subpart B

**Other Info**

Weight	Approx. 1.5Kg
Enclosure Size (LxWxH)	7.4" x 3.72" x 1.57" (256mm x 78mm x 47mm) (L*W*H)
Packaging	10pcs /CTN
Warranty	7 Years - Limited Coverage
Features	Built-in PFC Function (PF>0.99)/ Dimming range: 0~100%/ Load: 10-100% / For dry, damp, and wet locations
Dimming	0-10V/1-10V/Potentiometer/10V PWM/Phase-Cut (forward phase, reverse phase/MLV, ELV, TRIAC)

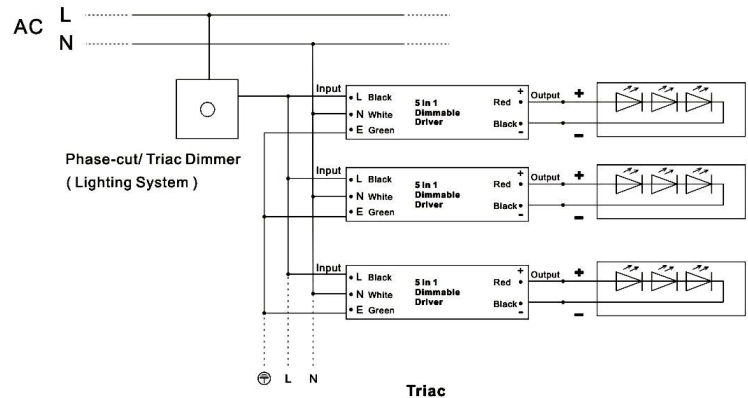
***Notes:**

1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25°C of ambient temperature.
2. Tolerance: includes set up tolerance, line regulation and load regulation.
3. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must be qualify EMC Directive on the complete installation again.

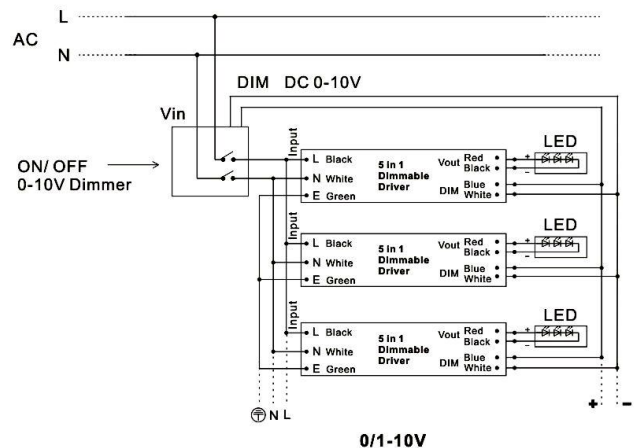
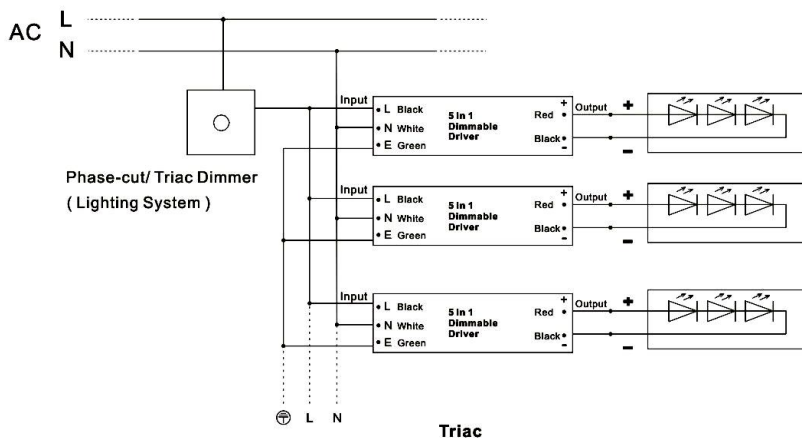
- Input cable 3*18AWG, the green cable to (FG) "Black" to L, and "White" to N of Mains AC
- Output cable 2*16AWG, "Red" (+) to LED Positive side (+), "Black" (-) to LED Negative side (-).
- Dimming cable 2*18AWG, DIM (+) Purple to 0/1-10V dimmer signal(+), DIM (-) Grey to 0/1-10V dimmer signal (-).
- Please DO NOT connect "DIM-" to "LED-", "DIM+" to "LED+", or other incorrect connection.
- Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

Using TRIAC/Phase Cut dimming

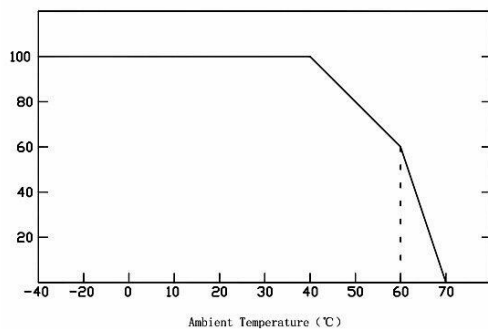
1. The Pulse-Width Modulation (PWM) output voltage can be adjusted through the input terminal of the AC phase line (L) by connecting a phase/TRIAC dimmer (lighting system).
2. Works with forward phase/leading edge, MLV and reverse phase/trailing edge, ELV, and TRIAC dimmers.
3. Please try to use dimmers with power at least 1.5 times the output power of the driver.
4. Min loading is about 10%.



Using 1-10 / 1-10V dimming



Derating Curve



Load carried in accordance with the derating curve, according to the ambient temperature, in order to extend the working life.

Instructions

1. This driver should be installed by a qualified and professional person;
2. Make sure the driver is installed with adequate ventilation to allow for heat dissipation;
3. Ensure all wiring is correct before testing in order to avoid light and power supply damage;
4. If the dimmable LED drivers do not perform normally, do not maintain privately. Contact us at: support@glls.com or 1-888-580-6366

5: Websites: www.glls.com or www.ledneonflex.com

Constant Voltage Dimmable LED Driver**Output**

DC Voltage	24V
Voltage Accuracy	±0.5V
Voltage Regulation	±0.5%
Rated Current	8.33A
Load Regulation	±1%
Rated power	200W

Input

Voltage Range	100-277VAC
THD (Typ. @ Full Load)	<20%@120VAC & 277VAC
AC Current (Max.)	2.3A
Frequency Range	47~63Hz
Inrush Current	15A, 50%, 1.4ms @120VAC, 30A, 50%, 1.4ms@277VAC
Leakage Current	<0.50mA
Power Factor (Typ.)	0.98@120VAC, 0.95@277VAC
Efficiency (Typ. @ full load)	85% @ 120VAC, 88% @ 277VAC

Protection

Over temperature	100°C±10°C shuts down o/p voltage, automatically recovers after cooling
Short Circuit	Shuts down o/p voltage, re-power on to recover after fault condition is removed
Over Loading	≤120% constant current limiting, auto-recovery

Environment

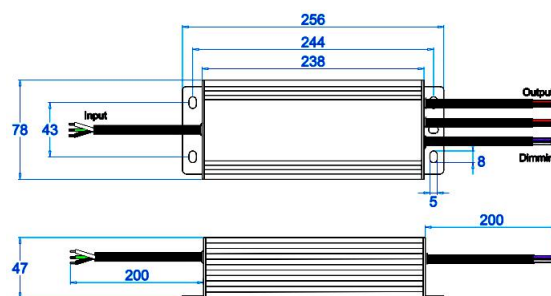
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Dimming	0-10V/1-10V/Potentiometer/10V PWM/Phase-Cut (forward phase, reverse phase/MLV, ELV, TRIAC)



150W 200W 12V Version

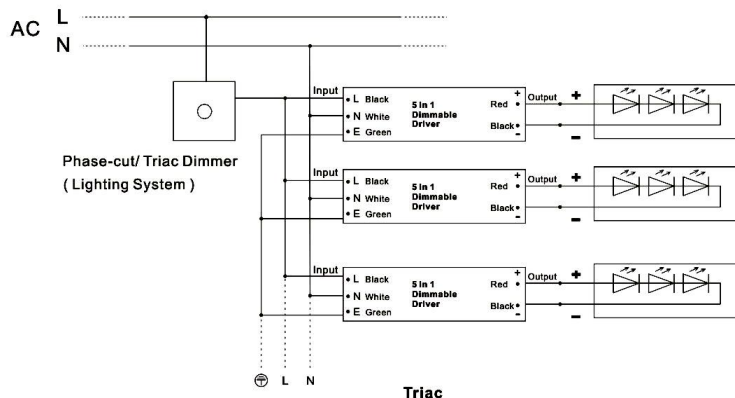
***Notes:**

1. All parameters NOT specially mentioned are measured at 110V/277VAC input, rated load and 25°C of ambient temperature.
2. Tolerance: includes set up tolerance, line regulation and load regulation.
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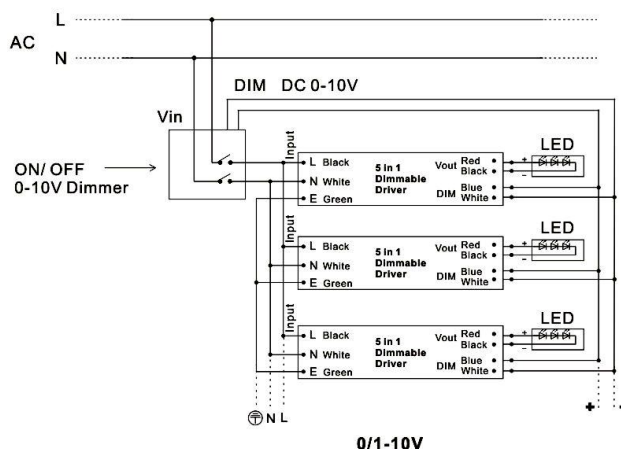
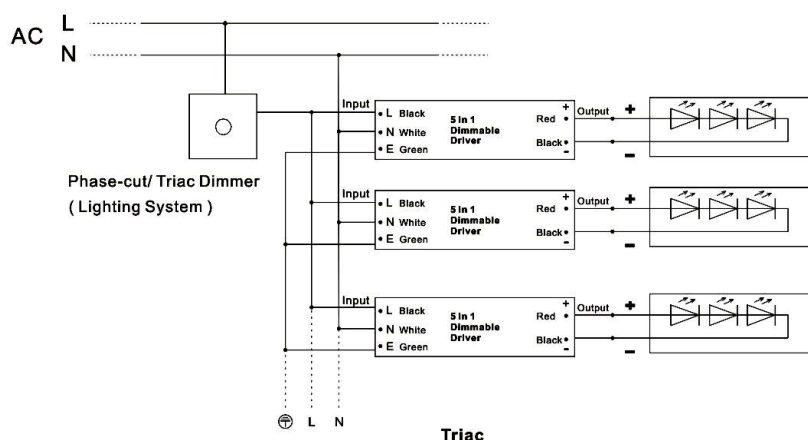
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- Dimming cable 2*18AWG,DIM (+) Purple to 0/1-10V dimmer signal(+),DIM (-) Grey to 0/1-10V dimmer signal (-)
- Please DO NOT connect "DIM-" to "LED-","DIM+" to "LED+",or other incorrect connection.
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Using TRIAC/Phase Cut dimming

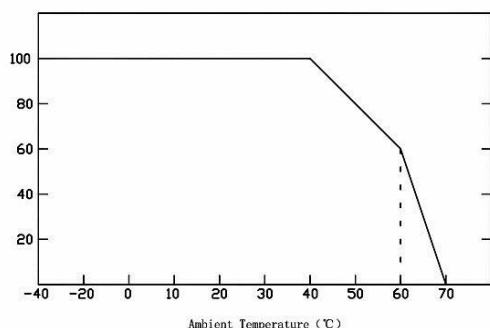
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Using 1-10 / 1-10V dimming



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