Linea® 1.5" Mini
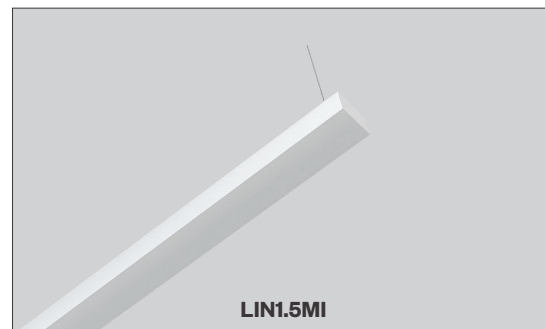## Linear Indirect, Remote Driver

amerlux

PROJECT:	TYPE:

Features

Linea drives your design scenario, seamlessly. Streamlined and flexible, these architectural LED pendants provide the freedom to create truly dynamic spaces. A synthesis of aesthetics, performance and energy efficiency, the Linea family delivers on its promises. Our tiny new Linea 1.5" pendant proves when it comes to lighting, less really is more. Linea. The power of disciplined design.

LIN1.5MI

Product Overview

Type: Cable Suspended, Indirect, Remote Driver
Wattage: 5W/ft, 10W/ft *(other wattages available see p2)*
Color Temp: 2700K, 3000K, 3500K, 4000K
CRI: 83 or 90+ typ.
Dimming: 0-10V, 1% dimming *(standard)*
Lutron LDE1 Hi-lume® 1% Dim Soft-On/Fade-to-Black
DALI dimming, 1% dim

Certifications

CSA c US

5 year limited warranty
AMERLUX LED

Fixture Summary

Performance Data

Wattage per Foot	Delivered Lumens	LPW	Color Temp	CRI
5	2095	123.8	3500K	83
10	3948	116.9	3500K	83

Data is based on 3500K-83 120V IES files available on website.
Data is based on 4' fixture with Batwing lens.

Electrical Data

Wattage per Foot	Voltage	4' System Watts	4' Amps	8' System Watts	8' Amps
5	120V	16.9	0.14	33.8	0.28
5	277V	16.9	0.06	33.8	0.12
10	120V	33.8	0.28	67.6	0.56
10	277V	33.8	0.12	67.6	0.24

Electronic multi-volt (120-277VAC), constant current LED driver.

Standard Patterns

L	J	U	□	⌐	Wall to Ceiling	Custom*
Yes	Yes	Yes	Yes	Yes	No	Yes

* Submit drawing, consult factory.

Runs

Individual Runs: 2' - 6' *(whole foot standard)*.
Note: 6' is maximum length between suspension points.
Continuous Runs: Available *(whole foot standard)*.
Custom: Made to measure lengths available *(nearest 1/8" of field dimensions)*.
Requires approval drawings. Added cost & lead time.

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Linea® 1.5" Mini
Linear Indirect, Remote Driver

PROJECT:	TYPE:

Ordering Information

LIN1.5MI-A17 . _____ . _____ . _____ . _____ . _____ . 120/277 . _____ . _____ . _____

1   **2**   **3**   **4**   **5**   **6**   **7**   **8**   **9**   **10**

1 Model

LIN1.5MI-A17[+]
(Mini Indirect, remote driver)

2 Optics

BAT batwing uplight *(standard)*
UC upper clear lens cover

3 Mounting

<u>Pendant Mount</u> *(mini cable suspension)*
MASW10 through ceiling tile or gyp board, white, 10'
MASW10SF through ceiling tile or gyp board, silver foil cord, white canopy, 10'
MASB10 through ceiling tile or gyp board, black, 10'
MASB10SF through ceiling tile or gyp board, silver foil cord, black canopy, 10'
MASW10T over ceiling tee, white, 10'
MASW10SFT over ceiling tee, silver foil cord, white canopy, 10'
MASB10T over ceiling tee, black, 10'
MASB10SFT over ceiling tee, silver foil cord, black canopy, 10'

4 Wattage *(per foot)*

Standard	Optional
5 5W/ft	**3*** 3W/ft
10 10W/ft	**4*** 4W/ft
	6 6W/ft
	7 7W/ft
	8 8W/ft
	9 9W/ft

* 4' min. length required

5 Color Temp

<u>83 CRI</u>	<u>90+ CRI</u>
27 2700K-83	**279** 2700K-90+
30 3000K-83	**309** 3000K-90+
35 3500K-83	**359** 3500K-90+
40 4000K-83	**409** 4000K-90+

6 Finish

HW high reflectance matte white
BT black texture
ST silver texture
For other RAL color, consult factory

7 Voltage

120/277

8 Length

_____ X _____ X _____

Length A	Length B	Length C
- all patterns	- all patterns	- PU
- IND	- PR *(2 lengths of 2)*	- PZ
- CON		
- CUS		

9 Configuration

IND[1] individual fixture, 2' to 6' in 1' increments
CON continuous run > than 6', specify to nearest foot
CUS custom made to measure, +/- 1/8" of customer supplied field dimensions

<u>Standard Patterns</u> *(see pg 6 for details)*
PLL L left, *(2)* straights + *(1)* 90° corner, leg right
PLR L right, *(2)* straights + *(1)* 90° corner, leg left
PU U shape, *(3)* straight lengths + *(2)* 90° corners
PR Rectangle shape, *(4)* straight lengths + *(4)* 90° corners
PZ Z shape, *(3)* straight lengths + *(2)* 90° corners
For custom patterns, submit an EDR on amerlux.com

10 Drivers/Controls

0-10V 1% analogue dimming, 120-277VAC, dim to off when selected with wireless dimming control
HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black
DALI DALI dimming 120-277VAC, 1% dim

[+] The "A" refers to the sequential revision in a year and "XX" refers to the year of update. Updates coincide with improved performance while not changing the overall fixture aesthetic and are reflected in the published performance data. Please contact your Amerlux representative for explanations of changes.
[1] Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.

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Linea® 1.5" Mini
Linear Indirect, Remote Driver

PROJECT:	TYPE:

Specifications

Application

Offices, corridors or any indoor space where comfortable ambient lighting is required. Remote driver little more than 3/4" high housing.

Construction

One piece extruded aluminum housing is *(1 1/2" wide X 0.8" high)*. Die-cast End Caps match fixture body finish. Painted die-formed, cold-rolled steel internal components are protected against rust and corrosion.

Optical

All lenses are snap-in, extruded acrylic, with a maximum length of 8'. Fixtures shipped with lenses installed.

Indirect:

BAT - Batwing uplight lens spreads light directly above fixture. 18" minimum distance between ceiling plane and top of fixture suggested.

UC - Upper Clear lens cover *(Lambertian distribution)*.

LED

Amerlux's boards and patented connectors with industry recognized LEDs chips enables excellent thermal management and allows Amerlux to offer a 5 year warranty. Our LED binning is within 3 MacAdam ellipse. LED boards are easily replaced in the field with just a Philips screw driver.

Color Temperature Options: 2700K, 3000K, 3500K, 4000K

CRI: 83 typical, 90+ typical

R9: 16 @ CRI 83

R9: >50 @ CRI 92

Life: 50,000+ hr., > 70% of initial lumens (L70)

Electrical

Remote Driver Wiring:

Driver is supplied installed in remote driver box *(one driver per box)*, with 5' of low voltage plenum rated cable. Fixture supplied with 16/3 SJT power cord ready to be connected to J-Box *(by others)* over cable canopy. Amerlux recommends a maximum of 15' between the fixture and the remote driver box. Consult factory with job specific electrical spec if more than 25' is required. Feeds are added as required by specified wattage and driver maximums.

See page 4 for wiring illustration

Standard Wattage: 5W/ft, 10W/ft.

Optional Wattages: 3W/ft, 4W/ft, 6W/ft, 7W/ft, 8W/ft, 9W/ft. *(3W & 4W have a minimum length of 4')*. For other wattages consult factory.

This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge damage is not covered under warranty. Emergency circuit via remote inverter or auxiliary emergency power supply (by others).

Finish

All painted surfaces are premium powder coated baked on for maximum durability and color stability.

For special paint colors, supply RAL and/or actual paint chip for factory consultation.

Configurations/Lengths

IND - Individuals are stand alone fixtures made of single lengths of 2' to 6' *(in 1' increments)*. They are supplied with matching painted End Caps and the required mounting hardware. Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.

CON - Continuous runs are longer than 6', specified to the nearest whole foot. Continuous runs less than 12' are made of 2 lengths. Continuous runs longer than 12' start with a 6' Beginning of Row *(BoR)* fitted with an End Cap. The majority of the runs are made up of 6' Middle of Run *(MoR)* lengths. End of Run *(EoR)* units are made up of 2' to 6' units to the nearest whole foot or a combination of a last 3' MoR and a 4' or 5' EoR. Factory installed pins and splines simplify fixture alignment. Lengths are quickly joined with "catch and latch" mechanisms or screws and sturdy brackets. Quick connectors simplify field wiring.

CUS - Custom made to measure runs are made to nearest 1/8" of customer supplied field measurements. They can be a single custom length or runs configured as described above only EoR's are 2' to 6' cut to the nearest 1/8" exact length or a combination of a last 4' MoR with an EoR cut to exact length to the nearest 1/8".

PXX - Standard patterns consist of 90° corners with standard lengths *(3' to 6' in 1' increments)* or custom lengths. Depending upon complexity of the pattern, drawings may be required. When ordering please give overall lengths.

See page 6 for layouts.

For custom patterns, submit EDR on amerlux.com

Mounting

LIN1.5MI-A16....MASW10 - Mini Indirect pendant mount is only 1.5" wide X 0.8125" high. The remote driver box is 19 $\frac{3}{4}$" long and can be located up to 15' from fixture. 15' of low voltage plenum rated cable supplied *(10' off fixture/5' off box)*. *(see p. 4)*

Mini Cable Suspension:

Thinner cable, smaller gripper and cable coupler are all scaled down to match the reduced size of the LIN1.5 Mini series. 5" diameter by 0.25" canopy is used for both feed and non-feed Mini Cable Kits. Low Voltalge power feeds are power feeds are 22 gauge 2 conductor SJT cords supplied in same color as canopy or with optional silver foil clear jacked cords. Amerlux supplies the required feed and non-feed suspension kits based upon length, electrical options and customer requirements. Suspension kit options include: color, length and mounting condition.

Certifications

Approved to UL standards for damp locations as tested by CSA
Intended for indoor use only

Warranty

Amerlux's 5 year limited warranty. Please consult Amerlux website for details.

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Linea® 1.5" Mini

Linear Indirect, Remote Driver

Product Details

Pendant

- 1 9/16"
- 15/16"
- Power Feed Suspension Kit
- Power Feed
- LEDs
- 1/16"
- Overall length of run
- 13/16"
- 1 1/2"

Remote Driver

- AC
- Power feed by others
- Remote Driver *(Supplied by Amerlux)*
- Low voltage plenum cable *(25' supplied)*
- J-Box *(by others)*
- Ceiling
- Power Cord
- 4'
- 8'

Remote Driver Box

- 2 1/4"
- 2 1/2"
- 19 3/4"

Suspension Detail

Blocking by G.C. (for direct fastening of Griplock)
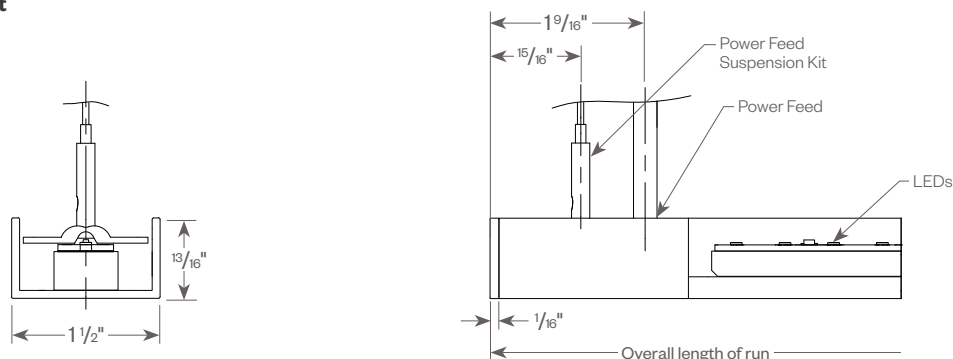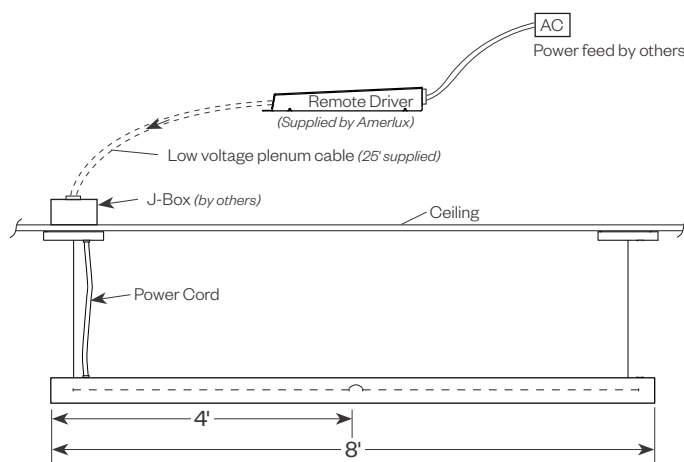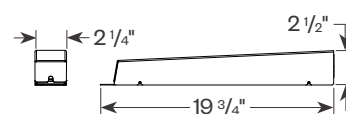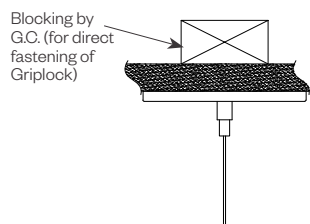
Non-Feed Canopy
ASW10:
120" Aircraft Cable
Ø5" White Canopy
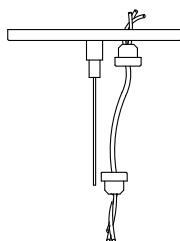
Power Feed Canopy
ASW10:
120" Aircraft Cable
10' White Cord 16/3
Ø5" White Canopy

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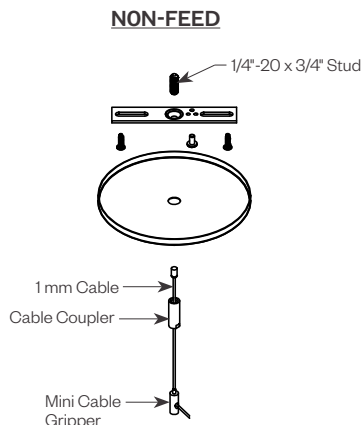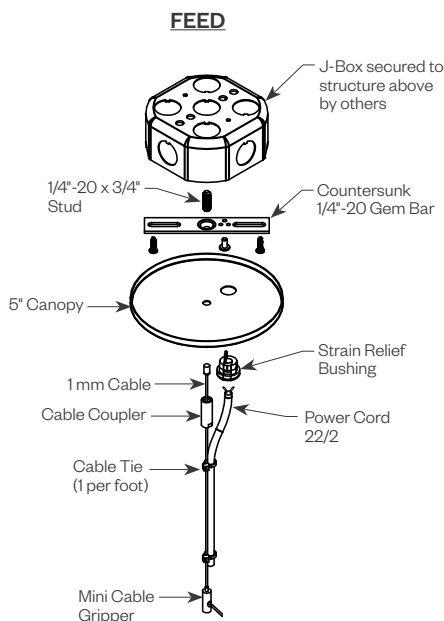
Linea® 1.5" Mini

Linear Indirect, Remote Driver

PROJECT: **TYPE:**

Cable Kit Suspension - Ceiling or Gypsum Board *(MASW10, MASW10SF, MASB10, MASB10SF)*

FEED

- J-Box secured to structure above by others
- 1/4"-20 x 3/4" Stud
- Countersunk 1/4"-20 Gem Bar
- 5" Canopy
- 1 mm Cable
- Strain Relief Bushing
- Cable Coupler
- Power Cord 22/2
- Cable Tie (1 per foot)
- Mini Cable Gripper

NON-FEED

- 1/4"-20 x 3/4" Stud
- 1 mm Cable
- Cable Coupler
- Mini Cable Gripper

Cat#	Length	Cord/Canopy	Application
MASW10	10'	white/white	ceiling tile/gypsum
MASW10SF	10'	silver foil/white	ceiling tile/gypsum
MASB10	10'	black/black	ceiling tile/gypsum
MASB10SF	10'	silver foil/black	ceiling tile/gypsum
MASW10T	10'	white/white	ceiling tee
MASW10SFT	10'	silver foil/white	ceiling tee
MASB10T	10'	black/black	ceiling tee
MASB10SFT	10'	silver foil/black	ceiling tee

Tee Grid or Screw Slot *(MASW10T, MASW10SFT, MASB10T, MASB10SFT)*

FEED

- J-Box secured to structure above by others
- Drop Ceiling T-Bar by others (for Drop Ceiling application)
- 1/4"-20 x 3/4" Stud
- Countersunk 1/4"-20 Gem Bar
- 5" Canopy
- 1 mm Cable
- Strain Relief Bushing
- Cable Coupler
- Power Cord 22/2
- Cable Tie (1 per foot)
- Mini Cable Gripper

NON-FEED
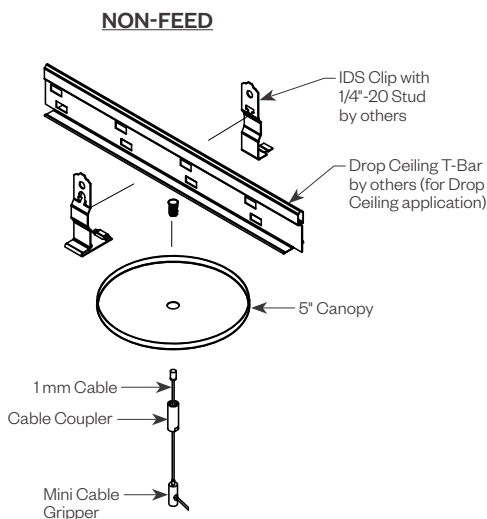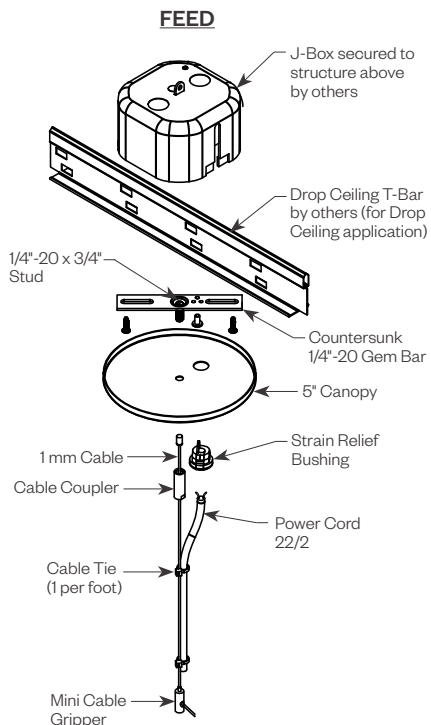
- IDS Clip with 1/4"-20 Stud by others
- Drop Ceiling T-Bar by others (for Drop Ceiling application)
- 5" Canopy
- 1 mm Cable
- Cable Coupler
- Mini Cable Gripper

PROJECT:	TYPE:

Linea 1.5" Mini Patterns

Standard Patterns

All corners are standard 90°, standard length legs.

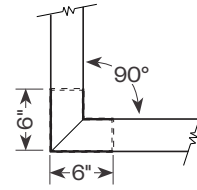Use standard lengths: 4' min to 8' in 1 foot increments.

Continuous runs must be the same length in pairs for closed configuration.
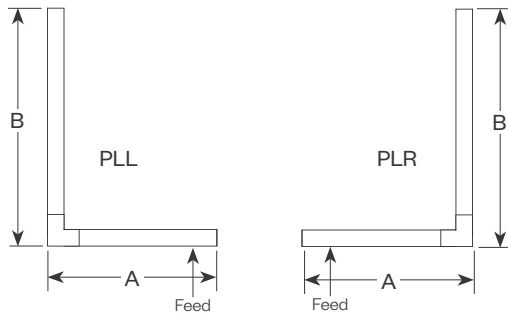
Custom Patterns

Please provide drawings of your configuration.

Made to Measure: +/- 1/8", consult factory.

PC - custom pattern, please provide drawings and consult factory.
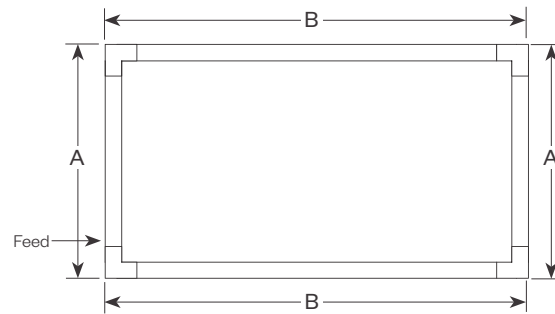

Linea 1.5 Mini Lens
Mitered Lens

PLL - L Left, *(2)* straights + *(1)* 90° corner, leg right

PLR - L Right, *(2)* straights + *(1)* 90° corner, leg left
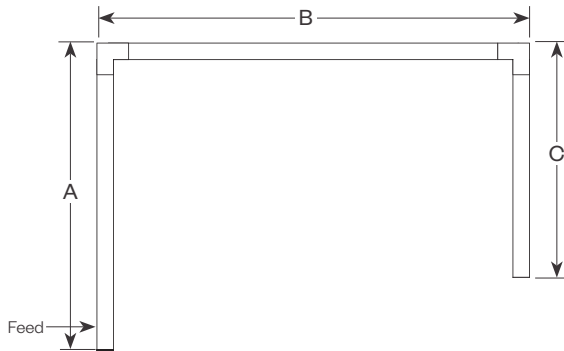
Provide overall lengths: A' & B'

Nomenclature: A-B-PLL   A-B-PLR

PR - Closed Rectangle, *(4)* straight lengths + *(4)* 90° corners

Provide overall lengths: A' & B'

Nomenclature: A-B-PR

PU - Open U, *(3)* straight lengths + *(2)* 90° corners

Provide overall lengths: A', B' & C'

Nomenclature: A-B-C-PU
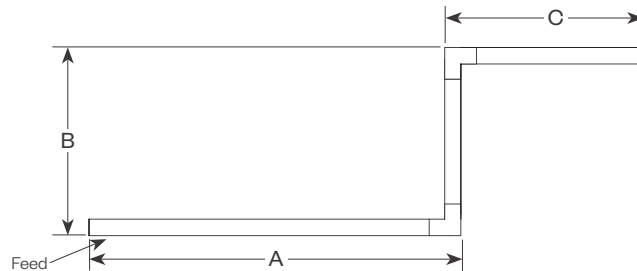
PZ - Open Z, *(3)* straight lengths + *(2)* 90° corners

Provide overall lengths: A', B' & C'

Nomenclature: A-B-C-PZ

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Linea® 1.5" Mini
Linear Indirect, Remote Driver

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PROJECT:	TYPE:

Performance Data

Multiplying Factors: *(Multiplying Factor is based on 3500K-83 120V IES file on website)*

Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.31	0.42	0.53	0.63	0.72	0.81	0.90	1.0

CCT Factors:

CRI	2700K	3000K	3500K	4000K
83	0.92	0.97	1.0	1.02
90	0.81	0.84	0.86	0.89

LINEA 1.5" INDIRECT BATWING LENS 10W 3500K 4FT
Total Watts: 34; Total Lumens: 3948
Source: 88 White LED's

LTL# 14664757.06
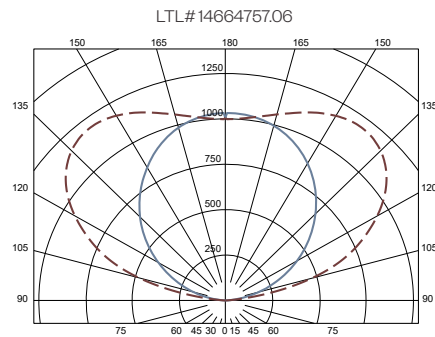
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	0	0.0
0-60	0	0.0
0-90	0	0.0
90-180	3948	100.0

Efficacy = 116.9 Lumens /Watt

COEFFICIENTS OF UTILIZATION
Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
RCR				
0	95	95	95	95
1	87	83	79	76
2	79	72	66	62
3	72	63	57	51
4	65	56	48	43
5	60	49	42	36
6	55	44	36	31
7	50	39	32	27
8	47	35	28	23
9	43	32	25	20
10	40	29	22	18

Note: Values expressed as percent of total lumen output delivered to the task surface.

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Linea® 1.5" Mini
Linear Indirect, Remote Driver

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PROJECT:	TYPE:

Static White - Dimming Compatibility

Amerlux® Linea® fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration *(Dimmer, Fixture Quantity, Voltage, etc)* may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---
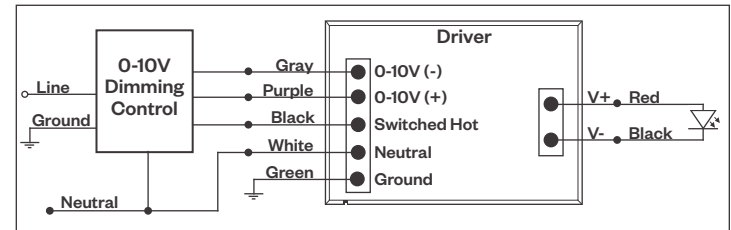
0-10V - DIMMING *(Standard)*
Integrates into a variety of building management and daylighting controls

Notes:
- 120V or 277V*
- Dims down to 1% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

0-10V Wiring Diagram

Compatible Dimmers†:

| Wall Box			Central System
Lutron:	Wattstopper:	Leviton:	Lutron Grafixk Eye with GRX-TV1 Interface
Diva - DVSTV	ADF-120277	Renoir II	
Maestro - MS-Z101			
Nova-T - NTSTV-DV			

LUTRON LDE1 DIMMING
Integrates into Lutron EcoSystem building management

Notes:
- 120VAC or 277VAC*
- Dims down to 1% Soft-On/Fade-to-Black
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

LDE1 *(HILUME-H-ECO)* **EcoSystem Digital Control Wiring Diagram**
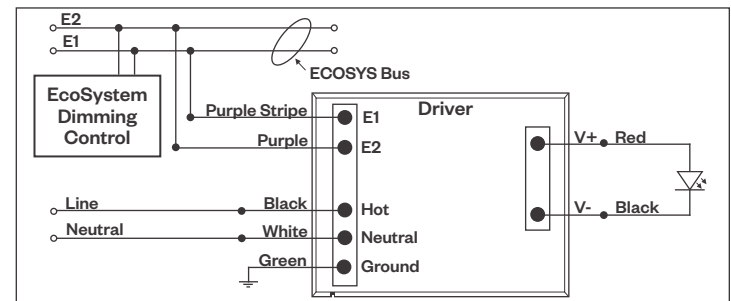
Compatible Dimmers†:

| Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

DALI - DALI DIMMING 120V-277V
Digital control protocol allows individual fixture control

Notes:
- 120VAC - 277VAC*
- Dims down to 1% light output in most cases

DALI Wiring Diagram

Compatible Dimmers†:

Wall Box	Central System
Leviton CD250 Controller	Dynalite
	Fifth Light
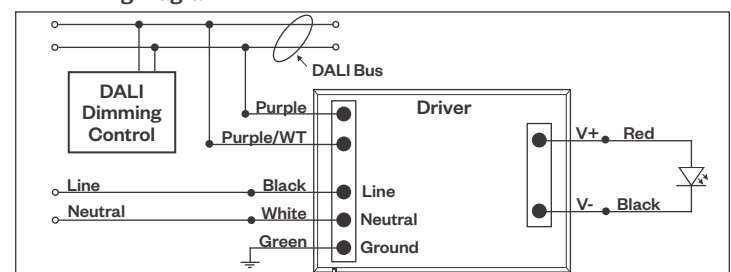
Notes:

* Driver is 277VAC dimmable with appropriate dimmer *(by others)*. All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.

† The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.