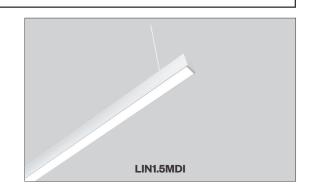
Linear Direct/Indirect, Remote Driver



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.



Product Overview

Type: Cable Suspended, Direct/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





Fixture Summary

Performance Data

Nominal	Delivered Lumens							
Wattage/Foot	Direct	Indirect	Total	LPW	Color Temp	CRI		
5/5	1920	2095	4015	114.4	3500K	83		
10/10	3691	3948	7639	108.7	3500K	83		

Data is based on 3500K-83 120V IES files available on website.

Data is based on 4' fixture with Performance lens direct & Batwing lens indirect.

Electrical Data

		4'		8'		
Wattage per Foot	Voltage	System Watts	Amps	System Watts	Amps	
10	120V	35.1	0.29	70.2	0.59	
10	277V	35.1	0.13	70.2	0.25	
20	120V	70.3	0.59	140.6	1.17	
20	277V	70.3	0.25	140.6	0.51	

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

Standard Patterns

L					Wall to Ceiling	Custom*
Yes	Yes	Yes	Yes	Yes	No	Yes

^{*} Submit drawing, consult factory.

Individual Runs: 2' - 8' (whole foot standard).

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.



Linear Direct/Indirect, Remote Driver



PROJECT: TYPE:

Ordering Information

LIN1.5MDI-A17. 120/277 8 9 10 1 11 Model Optics (select 1 from each list) Mounting Circuiting LIN1.5MDI-A17† PL performance lens (standard) Pendant Mount (mini cable suspension) 1 single circuit (Mini Direct/Indirect, remote driver) SLDW straight blade louver, white MASW10 through ceiling tile or gyp 2 up/down switch separately aluminum, solid blades w/overlav board, white, 10' SLDB straight blade louver, black, MASW10SF through ceiling tile or gyp board, silver foil cord, white canopy, 10' solid blades w/overlav SLDS straight blade louver, silver, MASB10 through ceiling tile or gyp solid blades w/overlay board, black, 10' **ASY** asymmetric lens MASB10SF through ceiling tile or gyp **DRP1** 1" drop lens board, silver foil cord, black canopy, 10' <u>Indirect</u> MASW10T over ceiling tee, white, 10' MASW10SFT over ceiling tee, silver foil BAT batwing uplight (standard) UC upper clear lens cover cord, white canopy, 10' MASB10T over ceiling tee, black, 10' MASBIOSFT over ceiling tee, silver foil

5	Wattage (per foot, D/I)	6	Color Temp		7	Finish	8	Voltage	9	Length		
	5/5 10/10		83 CRI 27 2700K-83	<u>90+ CRI</u> 279 2700K-90+		HW high reflectance matte white		120/277		Length A	X	C Length C
	5/10 10/5 Consult factory for other wattage options.		30 3000K-83 35 3500K-83 40 4000K-83	309 3000K-90+ 359 3500K-90+ 409 4000K-90+		BT black texture ST silver texture For other RAL color, consult factory				- all patterns - IND - CON - CUS	- all patterns - PR (2 lengths of 2)	- PU
	Note: 3' units must use same wattage for D/I components.										'	'

cord, black canopy, 10'

10 Configuration

IND¹ individual fixture, 2' to 8' in 1' increments
CON continuous run > than 8', specify to nearest foot

CUS custom made to measure, +/- 1/8" of customer supplied field dimensions

Standard Patterns (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

11 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

Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.



[†] 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 Ameriux representative for explanations of changes.

Linear Direct/Indirect, Remote Driver



PROJECT: TYPE:

Specifications

Application

Private offices, conference rooms, corridors or any indoor retail space where an exciting combination of direct and indirect ambient lighting is desired.

Construction

One piece extruded aluminum housing is (1.5" wide X 2.125" 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. Amerlux's proprietary acrylic lens provides excellent transmission while effectively concealing source image. All louvers are retained with spring clips attached to louver side rails, for good fit and retention. Direct:

 $\ensuremath{\text{PL}}$ - Performance Lens provides high efficiency with greater lens surface brightness.

SLDx - Straight blade Louver Direct has 0.5" high blades 0.493" on center with overlay. Available in (*W*) white aluminum (*light gray, appears white when lit*), (*B*) black or (*S*) silver

ASY - Asymmetric 20° throw lens is backed high diffusion film that eliminates striations.

DRP1 - 1" Drop lens with illuminated end caps.

Indirect:

Extruded acrylic lens with a maximum length of 8'.

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.

LED

Amerlux's boards and patented connector design with brand name LEDs enables Amerlux fixtures to have excellent thermal management and offer a 5 year warranty. Our LED binning is within 3 MacAdam ellipse. Boards are configured for maximum flexibility resulting in even illumination no matter the fixture layout. LED boards are easily replaced in the field with just a Phillips screw driver.

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

CRI: 83 typical, 90+ typical

R9: 16 @ CRI 83

R9:>50@CRI92

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 18/2 SJT power cord ready to be connected to J-Box (by others) over cable canopy. Ameriux 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

Circuiting:

- 1 1 Circuit, direct & indirect same circuit
- 2 2 Circuits, direct & indirect switch separately. Low voltage power feeds at both ends.

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 8' (in 1' increments). They are supplied with matching painted End Caps and the required mounting hardware.

 $\textbf{CON} - \text{Continuous runs are longer than 8', specified to the nearest whole foot.} \\ \text{Continuous runs less than 16' are made of 2 lengths. Continuous runs longer than 16' start with a 8' Beginning of Run (BoR) fitted with an End Cap. The body of the runs is made up of as many 8' Middle of Run (MoR) lengths as required. End of Run (EoR) units are either made up of a 2' to 8' units to the nearest whole foot or a combination of a last 4' MoR and a 5', 6' or 7' EoR. Factory installed pins and splines make fixture alignment easy. Lengths are quickly joined with "catch and latch" mechanisms or screws and sturdy brackets. Quick connectors simplify field wiring.$

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 8' cut to the nearest 1/8" exact length or a combination of a last 4' MoR with an EoR cut to exact length \pm 1/8".

PXX - Standard patterns consist of 90° corners with standard lengths (3' to 8' 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

LIN1.5MDI-A176....MASW10 - Mini Indirect Direct pendant is only 1.5" wide X 2.125" high. The remote driver box is $19\,^3/_4$ " long and can be located up to 15' from fixture with a 0-10V driver or Lutron drivers. 15' of low voltage plenum rated cable supplied (10' off fixture/5' off box). (see page 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 22 gauge 2 conductor SJT cords supplied in same color as canopy or with optional silver foil clear jacked cords. Ameriux 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

Warrant

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

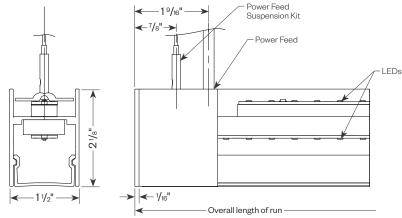
Linear Direct/Indirect, Remote Driver



PROJECT: TYPE:

Product Details

Pendant



Optional Louver/Drop Lens

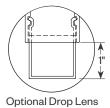




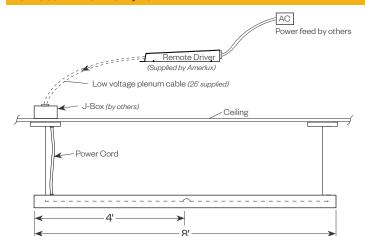


Optional Asymmetric Lens

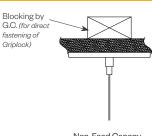
Optional Solid Blade Louver



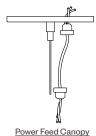
Remote Driver - 5W/Ft



Suspension Detail

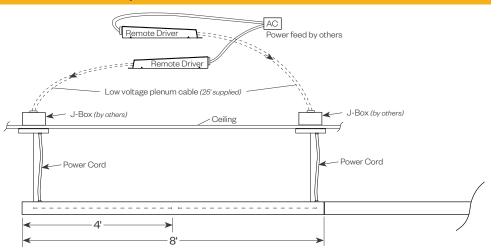


Non-Feed Canopy ASW10: 120" Aircraft Cable Ø5" White Canopy

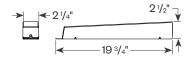


120" Aircraft Cable 10' White Cord 16/3 Ø5" White Canopy

Remote Driver - 10W/Ft



Remote Driver Box

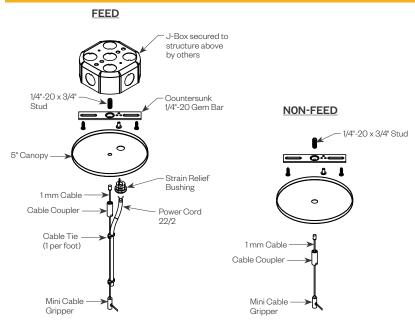


Linear Direct/Indirect, Remote Driver



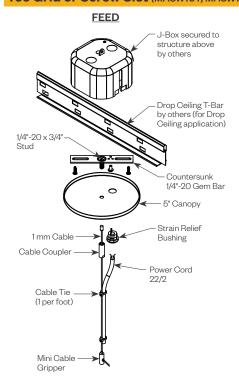
PROJECT: TYPE:

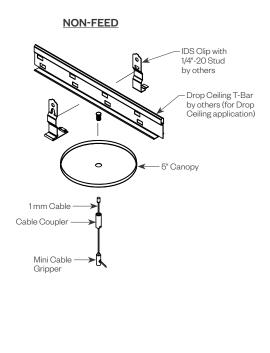
Cable Kit Suspension - Ceiling or Gypsum Board (MASW10, MASW10SF, MASB10, MASB10SF)



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)





Linear Direct/Indirect, Remote Driver



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.

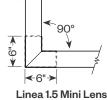
Continuous runs must be the same length in pairs for closed configuration.

Custom Patterns

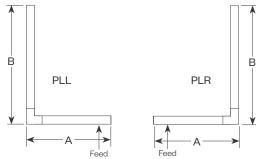
Please provide drawings of your configuration.

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

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



Linea 1.5 Mini Lens Mitered Lens

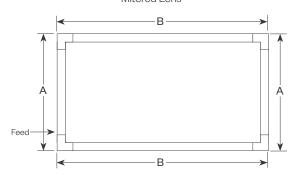


 $\textbf{PLL} - L \ \text{Left,} \ \textit{(2)} \ \text{straights} + \textit{(1)} \ 90^{\circ} \ \text{corner,} \ \text{leg right}$

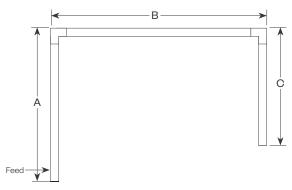
PLR - L Right, (2) straights + (1) 90° corner, leg left

Provide overall lengths: A' & B'

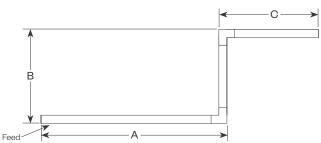
Nomenclature: A-B-PLL A-B-PLF



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

Linear Direct/Indirect, Remote Driver



PROJECT: TYPE:

Performance Data

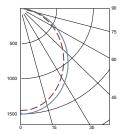
Multiplying Factors: (Multiplying Factor is based on 3500K-83 120V IES file on website)

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" MINI DIRECT PERFORMANCE LENS 10W 3500K 4FT

Total Watts: 37 Total Lumens: 3691 Source: 96 White LED's



LTL# 14664757.01 ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt				
0-40	1759	47.7				
0-60	2984	80.8				
0-90	3691	100.0				
90-180 0 0.0						
Efficacy (lumens/watt) = 101.1 lm/W						

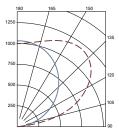
COEFFICIENTS OF UTILIZATION

RC		8	80			
RW	70	50	30	10		
RCR						
0	119	119	119	119		
1	109	105	100	97		
2	100	92	85	79		
3	91	81	73	66		
4	83	72	63	57		
5	77	64	55	49		
6	71	58	49	43		
7	66	53	44	38		
8	62	48	40	34		
9	58	44	36	31		
10	54	41	33	28		
Noto: V	luos overos	and as % of t	total lumon o	utput		

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

LINEA 1.5" MINI INDIRECT BATWING LENS 10W 3500K 4FT

Total Watts: 34 Total Lumens: 3948 Source: 88 White LED's



LTL#14664757.06 ZONAL LUMEN SUMMARY

90-180

Zone	Lumens	%Fixt
0-40	0	0.0
0-60	0	0.0
0-90	0	0.0

3948 Efficacy (lumens/watt) = 116.9 lm/W

1000

COEFFICIENTS OF UTILIZATION

RC		8	0	
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 % of total lumen output delivered to the task surface

Linear Direct/Indirect, Remote Driver



PROJECT: TYPE:

Performance Data

Multiplying Factors: (Multiplying Factor is based on 3500K-80 120V IES file on website)

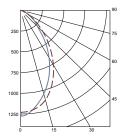
Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.31	0.42	0.53	0.63	0.72	0.81	0.90	1.0

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

	Louver	
Finish:	SLV	BLK
Factor:	1.0	0.65

LINEA 1.5" MINI STRAIGHT BLADE LOUVER (SLV) 10W 3500K 4FT

Total Watts: 37 Total Lumens: 1584 Source: 96 White LED's



LTL# 14664757.05

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1129	71.3
0-60	1502	94.8
0-90	1584	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 43.5 lm/W

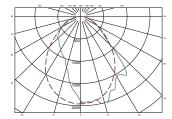
COEFFICIENTS OF UTILIZATION

RC		8	0	
RW	70	50	30	10
RCR				
0	119	119	119	119
1	112	109	106	103
2	105	99	94	89
3	98	90	84	79
4	91	82	75	70
5	86	75	68	63
6	80	70	62	57
7	75	64	57	52
8	71	60	53	48
9	67	56	49	44
10	63	52	45	41
A / 1 / .				4 - 4

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

LINEA 1.5" MINI ASYMMETRIC LENS 10W 3500K 4FT

Total Watts: 37 Total Lumens: 4046 Source: 96 White LED's



LTL# 14664757.02

ZONAL LUWEN SUMMARY					
Zone	Lumens	%Fixt			
0-40	2048	50.6			
0-60	3358	83.0			
0-90	4046	100.0			
90-180	0	0.0			

Efficacy (lumens/watt) = 110.8 lm/W

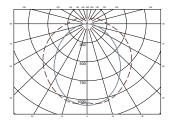
COEFFICIENTS OF UTILIZATION

RC		8	0	
RW	70	50	30	10
RCR				
0	119	119	119	119
1	110	105	101	97
2	100	92	86	81
3	92	82	74	68
4	85	73	65	58
5	78	66	57	51
6	72	60	51	45
7	67	54	46	40
8	63	50	41	36
9	59	46	38	32
10	55	42	35	30
	,			

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

LINEA 1.5" MINI DROP LENS 10W 3500K 4FT

Total Watts: 37 Total Lumens: 4014 Source: 96 White LED's



LTL# 14664757.03

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt	
0-40	1339	33.4	
0-60	2397	59.7	
0-90	3427	85.4	
90-180	588	14.6	
Efficacy (lumens/watt) = 109.9 lm/W			

COEFFICIENTS OF UTILIZATION

RC		8	0	
RW	70	50	30	10
RCR				
0	116	116	116	116
1	103	98	93	88
2	93	84	77	70
3	85	73	65	58
4	77	65	55	48
5	71	58	48	41
6	65	52	42	36
7	60	47	38	32
8	56	43	34	28
9	52	39	31	25
Ю	49	36	28	23

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

Linear Direct/Indirect, Remote Driver



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 ---

0-101/ Wiring Diagram

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!

Ground O-10V Dimming Control	Gray Purple Black White Green	Driver 0-10V (-) 0-10V (+) Switched Hot Neutral Ground	•	V+ Red V- Black
------------------------------	-------------------------------	---	---	--------------------

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

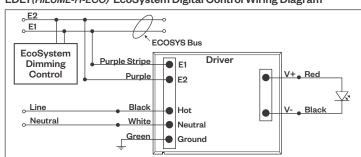
Integrates into Lutron EcoSystem building management

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!

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			

LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



DALI - DALI DIMMING 120V-277V

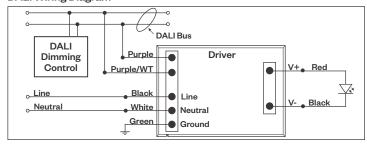
Digital control protocol allows individual fixture control

Notes:

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

Compatible Dimmers [†] :		
Wall Box	Central System	
Leviton CD250 Controller	Dynalite	
	Fifth Light	

DALI Wiring Diagram



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.