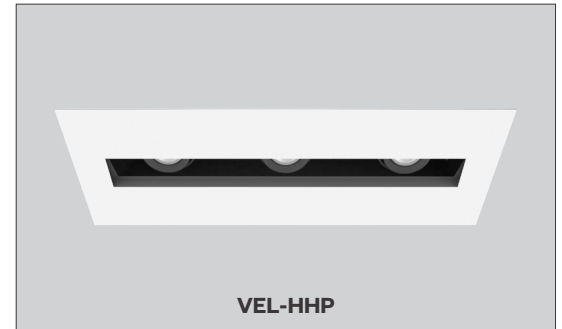


PROJECT:

TYPE:

Features

A completely unique addition to the Amerlux® line, Velato is our response to your requests for a super-flexible, concealed ceiling light with a quasi-custom vibe. Light shoots through the center of this new, concealed multiple, and lands right on target. The Velato faceplate is the key to its unique properties. The versatile Velato is offered in 1, 2 and 3 light multiples. Trimless version also available.



Product Overview

Type: Recessed Slot Multiple, Accent & Display
 Wattage: 11W, 16W, 18W
 Color Temp: 2200K, 2700K, 3000K, 3500K, 4000K
 CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)
 90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)
 3K Class A LEDs available (16W max)
 Dimming: TRIAC & ELV, 5% Dim, 120/277VAC
 Lutron LDE1 Hi-lume® 1% Dim Soft-On/Fade-to-Black, 120/277VAC
 0-10V, 1% Dim, 120/277VAC
 DALI, 1% Dim, 120/277VAC

Certifications



Fixture Summary

Fixture Type

# of Heads	New Construction	Remodeler	Trim	Trimless
1	Yes	No	Yes	Yes
2	Yes	No	Yes	Yes
3	Yes	No	Yes	Yes

See separate spec sheet for Semi-Recessed or Remodeler versions.

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
11	732	66	5336	3000K-83
16	1064	66	7761	3000K-83
18	1197	68	8731	3000K-83

Data is based on 3000K-83, 120V IES files available on website.

Data is based on 1 light configuration with Spot optic.

PROJECT:

TYPE:

Ordering Information - Frame

1	2	3	4	5
1 Model	2 Style	3 # of Heads	4 Voltage	5 Driver (for non-dimming select LE/TE option)
VEL-NC-FRAME (new construction)	T trimmed	1	120	LE/TE TRIAC/ELV dimming, 5% dim
VEL-CP-FRAME (Chicago Plenum frame)	TL trimless	2	277	HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim
		3		Soft-On/Fade-to-Black
				O-10V 0-10V dimming, 1% dim
				DALI EldoLED, 1% dim
6 Options/Accessories				
HB49 - hanger bars from min 29" to max 49"				
Note: 14 1/2" - 25" hanger bars are included as standard.				
Choose HB49 option above for larger mounting spaces only.				

Ordering Information - Trim

1	2	3	4	5	6	7	8	9	10	11
1 Model	2 Style	3 # of Heads	4 Concealed Type	5 Wattage	6 Voltage	7 Beam Spread	8 Options	9 Faceplate Finish	10 Driver (for non-dimming select LE/TE option)	11 Options
VEL-HHP-NC-TRIM (new construction)	T trimmed	1	SA slot adjustable	11	120-277	1LT 2LT 3LT	83 CRI 90+ CRI	MW matte white	LE/TE TRIAC/ELV dimming, 5% dim	AH accessory holder, accepts (2) 1/8" forms of media and optical film
VEL-HHP-CP-TRIM (Chicago Plenum trim)	TL trimless	2		16		SP SP SP (spot 15°)	27 2700K-83 229* 2200K-90+ 3CLA* 3000K Class A		HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim	HEX hexcell louver (requires AH)
		3		18		NF NF NF (narrow flood 22°)	30 3000K-83 279 2700K-90+		Soft-On/Fade-to-Black	
						MFL MFL MFL (medium flood 25°)	35 3500K-83 309 3000K-90+		O-10V 0-10V dimming, 1% dim	
						FL FL FL (flood 28°)	40 4000K-83 359 3500K-90+		DALI EldoLED, 1% dim	
						WF WF WF (wide flood 40°)	409 4000K-90+			
						VWF VWF VWF (very wide flood 60°)	* Not available for 18W			
						LS LS LS (linear spread 60°x10°)				

PROJECT:

TYPE:

Specifications

Application

Retail, commercial and hospitality accent and display lighting

Construction

Stamped steel mounting frame with integral mounting bars
Thermally protected (*adds 2W to total fixture wattage*)
Steel driver housing
Extruded aluminum upper housing
Steel plaster frame (*trimless only*)
Complete die-cast optical head construction
No exposed wiring

Optical

Tilt: 0-30°
Rotation: 360°+
Beam Spreads: Spot, 15°; Narrow Flood, 22°; Medium Flood, 25°;
Flood, 28°; Wide Flood, 45°; Very Wide Flood, 60°;
Linear Spread, 60° x 10°

LED

Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K,
CRISP, Class A
CRI: 83 typ. (*2700K, 3000K, 3500K, 4000K*)
90+ typ. (*2200K, 2700K, 3000K, 3500K, 4000K*)
Class A* 3000K LED (*high CRI, high gamut, 16W max*)
R9 Values: 11 (*83 CRI*), 55 (*90+ CRI*)
Binning: 3-step MacAdam ellipse (*SDCM*)
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs
** Class A LED: Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.*

Electrical

Wattage: 11W, 16W, 18W
Electronic constant current LED driver, 120/277VAC input
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 and over voltage damage is not covered under warranty.

Drivers

LE/TE - Leading Edge (*Triac, Forward Phase*) or Trailing Edge (*ELV, Reverse Phase*) autosensing driver dims down to 5% on most dimming systems.
0-10V, Lutron and DALI systems also available
See pages 7-8 for more dimming information

Finish

Powder coat paint

Mounting

Hanger Bars:

Adjustable hanger bars included (*14 1/2" - 25" std.*)

Optional **HB49** - hanger bars from min 29" to max 49" available

Trimmed:

For use in T-Grid or GB ceilings; max ceiling thickness 1"

Trimless:

For use in GB ceilings; max ceiling thickness 5/8"

Consult Factory for thicker ceilings

Certifications

CSA listed to UL standards. Suitable for damp locations
Indoor use only

Warranty

5 year limited warranty

PROJECT:

TYPE:

Electrical Data

NOTE: System Watts includes an additional 2W for thermal protector power consumption.

1 Light

	1 x 11W		1 x 16W		1 x 18W	
Voltage	System Watts	Amps	SystemWatts	Amps	System Watts	Amps
120V	11	0.09	16	0.13	18	0.15
277V	11	0.04	16	0.06	18	0.07

Electronic constant current LED driver.

2 Light

	2 x 11W		2 x 16W		2 x 18W	
Voltage	System Watts	Amps	SystemWatts	Amps	System Watts	Amps
120V	22	0.18	32	0.27	36	0.30
277V	22	0.08	32	0.12	36	0.13

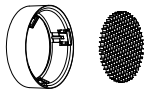
Electronic constant current LED driver.

3 Light

	3 x 11W		3 x 16W		3 x 18W	
Voltage	System Watts	Amps	SystemWatts	Amps	System Watts	Amps
120V	33	0.28	48	0.40	54	0.45
277V	33	0.12	48	0.17	54	0.19

Electronic constant current LED driver.

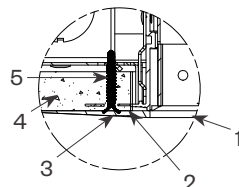
Accessories (diagrams show installation order)



Accessory holder, hexcell louver

Plaster Frame Installation Detail (for trimless fixture only)

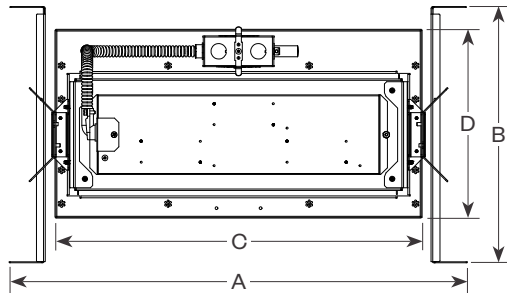
1. Removable bottom face plate
2. Plaster frame
3. Plaster skim coat (by others)
4. Ceiling
5. Sheetrock screws (by others)



PROJECT:

TYPE:

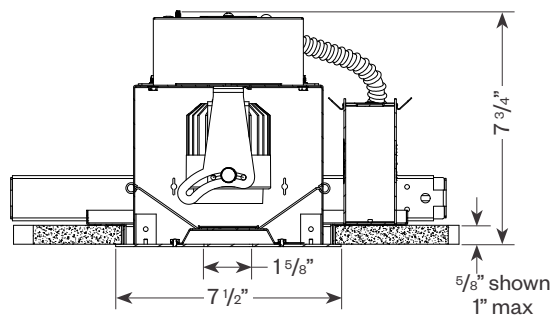
Product Details - Trimmed



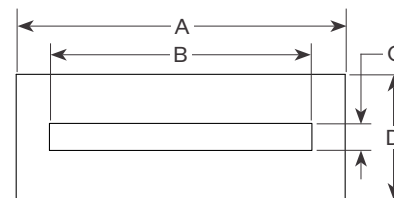
	1 Light	2 Light	3 Light
A	13 3/4"	20 1/4"	26"
B	14 1/2"	14 1/2"	14 1/2"
	max 25"	max 25"	max 25"
C	8 9/16"	15 1/16"	20 13/16"
D	10 11/16"	10 11/16"	10 11/16"

Ceiling Cut Out: 1 Light - 7 1/8" x 7 1/8"
 2 Light - 7 1/8" x 13 5/8"
 3 Light - 7 1/8" x 19 3/4"

End View

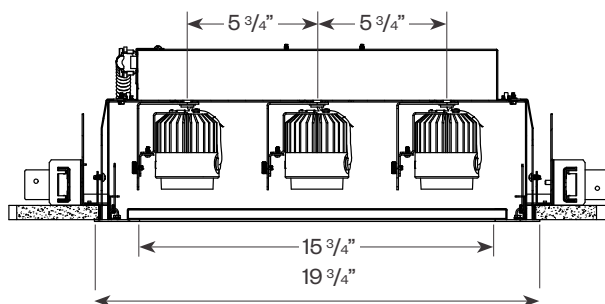
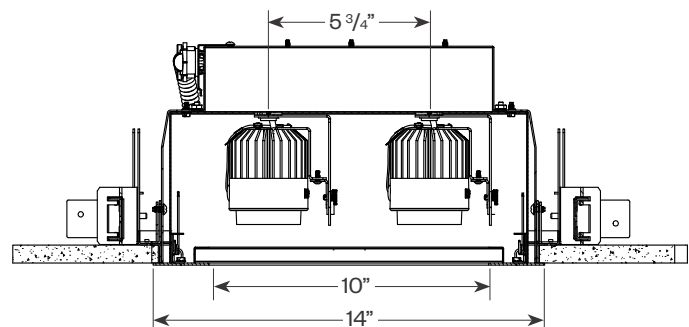
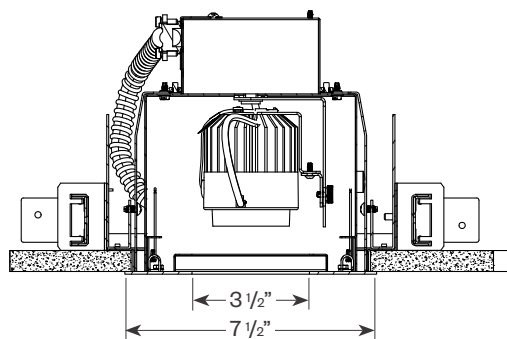


Bottom View



	1 Light	2 Light	3 Light
A	7 1/2"	14"	19 3/4"
B	3 1/2"	10"	15 3/4"
C	1 5/8"	1 5/8"	1 5/8"
D	7 1/2"	7 1/2"	7 1/2"

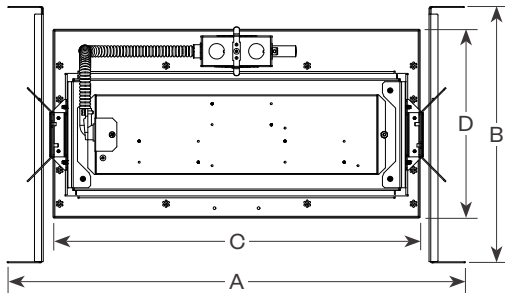
Side View



PROJECT:

TYPE:

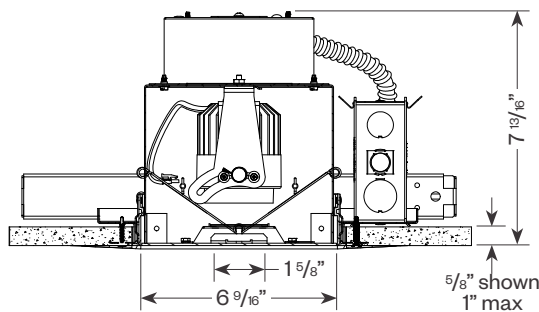
Product Details - Trimless



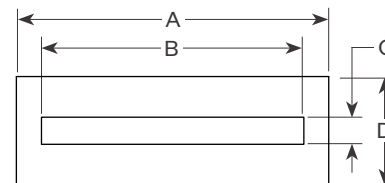
	1 Light	2 Light	3 Light
A	13 3/4"	20 1/4"	26"
B	14 1/2"	14 1/2"	14 1/2"
	max 25"	max 25"	max 25"
C	8 9/16"	15 1/16"	20 13/16"
D	10 11/16"	10 11/16"	10 11/16"

Ceiling Cut Out: 1 Light - 7 1/8" x 7 1/8"
 2 Light - 7 1/8" x 13 5/8"
 3 Light - 7 1/8" x 19 3/4"

End View

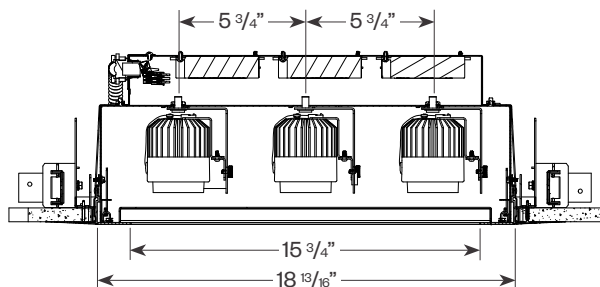
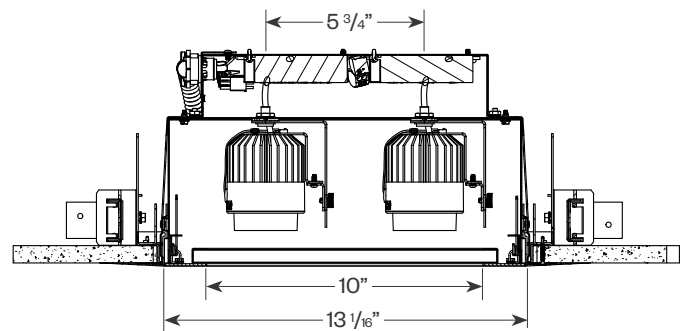
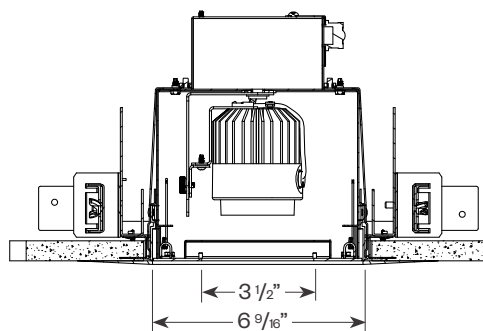


Bottom View



	1 Light	2 Light	3 Light
A	6 1/2"	13"	18 3/4"
B	3 1/2"	10"	15 3/4"
C	1 5/8"	1 5/8"	1 5/8"
D	6 1/2"	6 1/2"	6 1/2"

Side View



PROJECT:

TYPE:

Dimming Compatibility

Amerlux® Velato® 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 ---

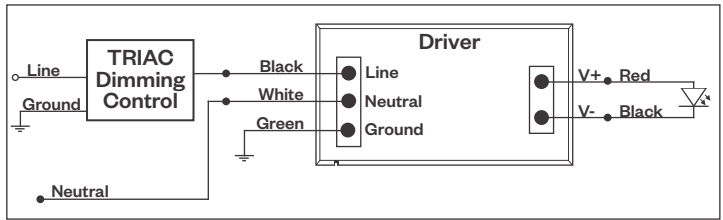
TRIAC (Forward Phase) Dimming

Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

Notes:

- 120VAC or 277VAC*
- Dims down to 5% light output (*most cases*)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

TRIAC Wiring Diagram



Compatible Dimmers*:

Wall Box (TRIAC 120VAC)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

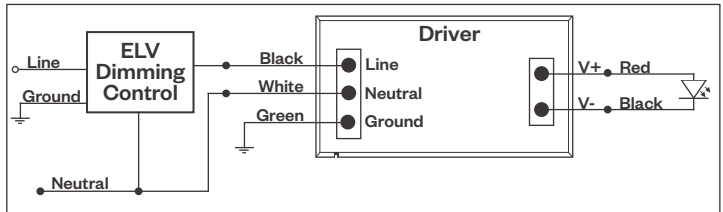
ELV - Electronic Low Voltage (Reverse Phase) Dimming

Utilizes specialized "ELV" dimmers.

Notes:

- 120VAC or 277VAC*
- Dims down to 5% light output (*most cases*)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

ELV Wiring Diagram



Compatible Dimmers*:

Wall Box (ELV 120VAC)	Wall Box (ELV 277VAC)	Central System
Lutron "Diva"	Leviton Revoir II AWSMT-E	Lutron "GP" Panel with PHPM-PA 120/277VAC
Lutron "Nova-T"		Lutron Grafik Eye QS with PHPM-PA 120/277VAC
Lutron "Maestro"		
Lutron "Skylark"		
Leviton "Surslide"		
Leviton "Vizio"		

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.

PROJECT:

TYPE:

Dimming Compatibility *(continued)*

Amerlux® Velato® 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 ---

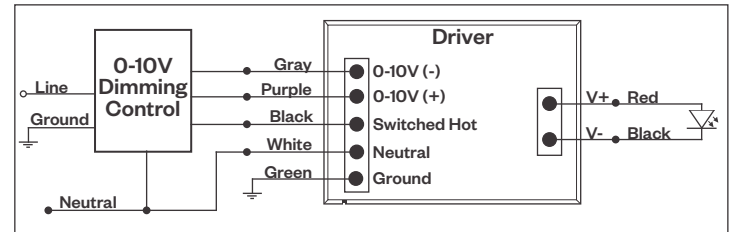
0-10V Dimming

Integrates into a variety of building management and daylighting controls

Notes:

- 120VAC or 277VAC*
- 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

Lutron "Diva" - DVSTV Leviton Renoir II 0-10V

Central System

Lutron Grafik Eye with GRX-TVI Interface

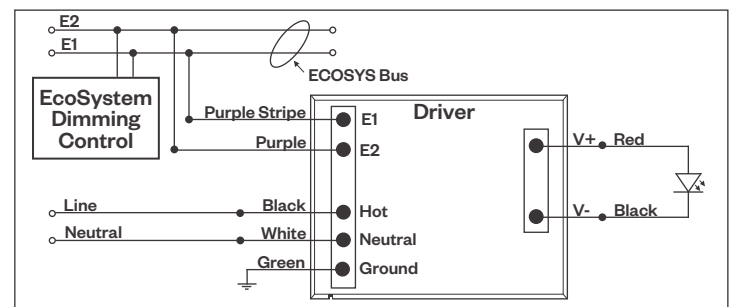
Lutron LDE1 Dimming

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

Pow Pak Dimming Modules
Energi Savr Node
Grafik Eye QS/Homeworks
QS Control Unit
Quantum Hub
Homeworks QS/My Room

Central System

Lutron EcoSystem compatible controls

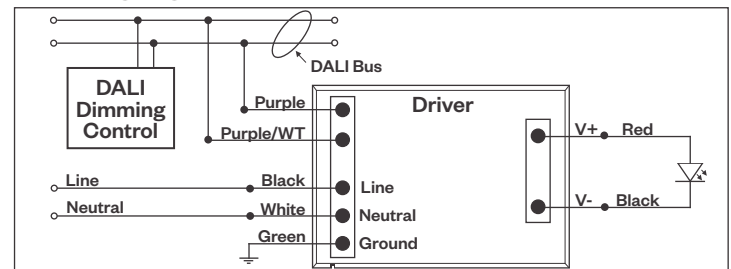
DALI Dimming

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 (3-Wire Fluorescent)

Leviton CD250 Controller

Central System

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.