

# Carisma® 3"

Recessed Linear (compatible with 4" grid ceiling systems)



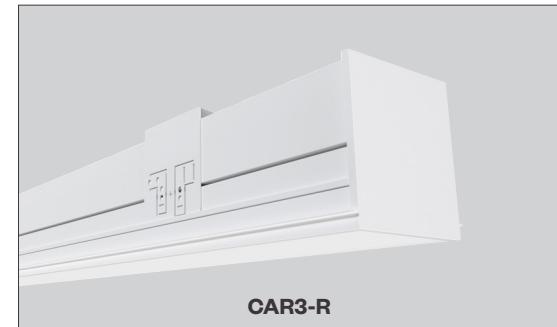
PROJECT:

TYPE:

## Features

Carisma® Recessed is part of a family of architectural linear luminaires that offer excellent performance, quality, visuals and value. A sleek edge-to-edge lens design results in an elegant aesthetic with clean lines. Carisma®'s patent pending design includes an integrated optical system that minimizes optical losses, allowing for industry-leading efficacy that meets the stringent requirements for DLC Listing (DLC Listing pending). Wide range of ceiling trim options accommodate most ceiling types, including common 4" technical grid ceiling systems.

The Carisma® Recessed offers luminaires with 2" and 3" wide apertures, delivering seamless lighting as discrete individual fixtures, continuous rows or patterns. Carisma® can be specified to the nearest 1/8" and is available in pendant, surface, wall and recessed mounted options, providing designers with the versatility to light up a space with their Carisma®.



CAR3-R

## Product Overview

Type:	Direct distribution with Recessed Mounting
Wattage:	5W/ft, 10W/ft (or specify wattage between 3W/ft and 10W/ft)
Color Temp:	2700K*, 3000K, 3500K, 4000K (*90+ CRI only)
CRI:	80+ typ. or 90+ typ.
Dimming (wired):	0-10V, 1% dim, 120/277VAC (standard) Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black DALI, 1% dim
Dimming (wireless):	Lutron Athena (integral wireless RF node) BubblyNet Bluetooth

## Certifications



5 year limited  
warranty  
AMERLUX LED

\* DLC pending

## Fixture Summary

### Performance Data

Wattage per Foot	Delivered Lumens	LPW	Color Temp	CRI
5	2632	129.5	3500K	80+
10	5253	123.1	3500K	80+

Data is based on 4' fixture, 3500K-80 120VIES files available on website.

### Electrical Data

Wattage per Foot	Voltage	4'		8'	
		System Watts	Amps	System Watts	Amps
5	120V	19.8	0.17	40.2	0.34
	277V	20.5	0.07	40.1	0.15
10	120V	38.7	0.32	80.3	0.67
	277V	40	0.15	79	0.29

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

### Ceiling Types

9/16"	15/16"	Gyp Board	Millwork	4" Tech Zone	6" Tech Zone
Yes	Yes	Yes	No	Yes	No

### Runs

Individual Runs: 2' - 8' (specify in 1' increments).

Continuous Runs: > 8' (specify to the nearest foot).

Custom: Made to measure lengths available (specify to nearest 1/8" of field dimensions). Requires approval drawings. Added cost & lead time.

### Standard Patterns

					Wall to Ceiling	Custom
Yes	Yes	Yes	Yes	Yes	No	No



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## PROJECT:

## TYPE-

## Ordering Information

## 10 Options/Accessories

CP Chicago Plenum (CCEA)

**WHIP** 6' whip, 18/5 conductor

**EMC-PF<sup>2</sup>** emergency circuit requires power feed located in last fixture section (for other locations consult factory).

**PF<sup>2</sup>** Extra power feed for additional circuiting

**EMB** emergency battery pack (*not available for lengths under 4'*)

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

2 Not available with IND (individual) configuration.

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PROJECT:

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## Specifications

### Construction

Extruded aluminum housing and reflector. Numerous configurations accommodate most architectural ceiling conditions.

Weights: 3.5 lbs/ft (may vary based on configurations and accessories)

### Optical

All lenses are snap-in, extruded acrylic, with a maximum length of 8'. Amerlux's proprietary acrylic lens provides excellent transmission while effectively concealing source image.

**PL** - Performance Lens provides high efficiency with controlled lens surface brightness.

### LED

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: 80+, 90+

R9: 16 @ CRI 83; R9: >50 @ CRI 92

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

\* Available in 90+ CRI only

### Electrical

**Wiring:** Supply wires are easily accessible through access plate on top of fixture.

**WHIP:** Optional factory installed 6' Greenfield whip (18/5 conductor) simplifies installation.

**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 3'). For other wattages consult factory.

Emergency circuit via remote inverter or auxiliary emergency power supply (by others).

**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 overvoltage damage is not covered under warranty.**

**EMC-PF** - Emergency circuit requires power feed wire harness to be located in last fixture section for continuous runs. For other locations consult factory. Not available for individual (IND) configuration.

**PF** - Extra power feed wire harness for additional circuiting. Not available for individual (IND) configuration.

### Finish

**HW** - High reflectance, matte white powder coat paint. Baked on finish for maximum durability and color stability.

### Configurations/Lengths

#### Strights:

**IND** - Individual fixtures are made of single standard lengths of 2 ft to 8 ft (in 1' increments). These are stand alone fixtures with matching End Caps, supplied with the mounting hardware. Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.

**CON** - Continuous runs, >8' specified to nearest whole foot length in 1' increments. Runs made from standard lengths have End Caps at the beginning and end of run. Runs > 60' may require second power feed. Each housing has factory installed alignment pins. Mating fixtures are easily aligned and joined. Wiring is made fast and positive with molded quick connectors.

**CUS** - Custom made to measure runs are made to nearest 1/8" of customer supplied field measurements or drawings. Custom lengths use the same hardware for hairline joining.

#### Patterns:

**PXX** - Standard Patterns consist of 90° corners with standard lengths (4' or 8' in 1' increments), continuous runs or made to measure lengths. Depending upon complexity of the pattern drawings may be required from the customer. If ordering please give overall lengths.

**A'-B'-PLL** - L Left - (1) 90° Corner (2) segments. Specify overall segments: A' & B'

**A'-B'-PLR** - L Right - (1) 90° Corner (2) segments. Specify overall segments: A' & B'

**A'-B'-PR** - Rectangle - (4) 90° Corners joining (4) segments. Specify overall segments: A' & B'

**A'-B'-C'-PU** - U shape - (2) 90° Corners joining (3) segments. Specify overall segments: A', B', & C'

**A'-B'-C'-PZ** - Z shape - (2) 90° Corners joining (3) segments. Specify overall segments: A', B', & C'

**See page 7 for layouts.**

**Please note: Corners have lit mitered Lens.**

### Mounting

Intended for use in gypsum board, 9/16" and 15/16" grid or 4" Tech Zone and other technical ceilings.

**Please note - fixtures to be installed before gypsum board ceiling.**

**CAR3-R-GB** - gypsum board trimless mud-in, fixture plastered in gypsum board ceiling

**CAR3-R-FLG** - gypsum board exposed flange, fixture into gypsum board ceiling

**CAR3-R-GRID** - grid mount in 9/16" & 15/16" Flat Tee, 9/16" Screw Slot or 9/16" Interlude ceilings

### Options

**EMB** - Emergency battery pack - 10W output power, 90 min of illumination time, up to 1300 lm of initial light output. Illuminated test-switch/charging indicator light is provided. Wattage consumption by EM: 2.5W/ft (4ft fixture), 1.25W/ft (8ft fixture). Request can be made to light up 4ft section on 8ft unit.

### Certifications

Approved to UL standards for damp locations as tested by CSA

Intended for indoor use only

DLC Listing pending

IC rated

Chicago Plenum (OCEA) optional

### Warranty

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



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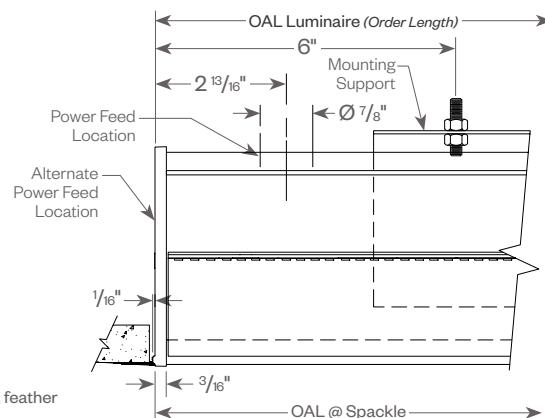
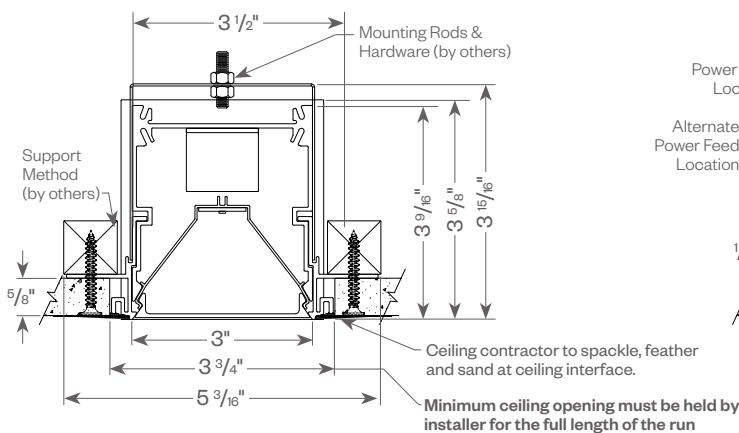


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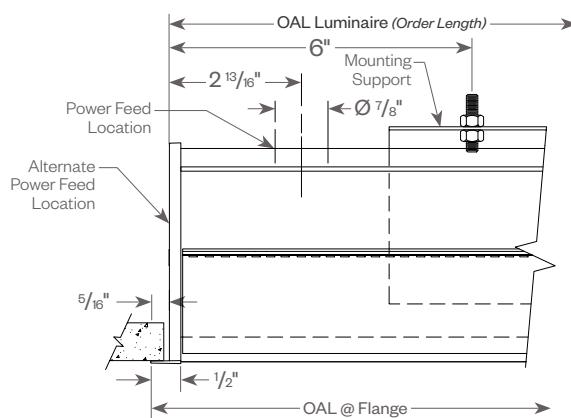
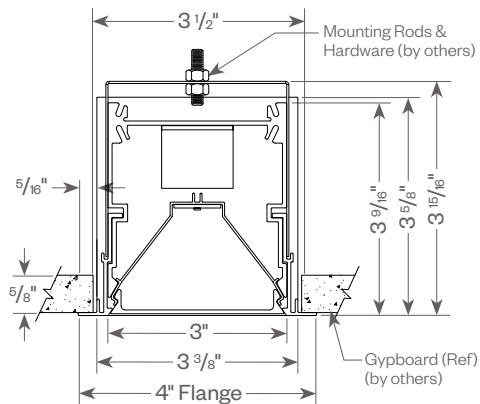
TYPE:

## Product Details

CAR3-R-GB (Gypsum board trimless, mud-in)

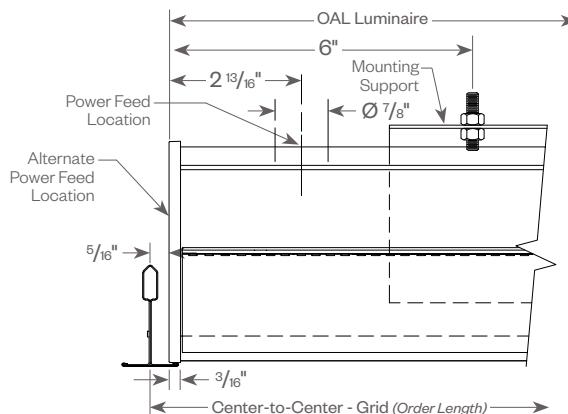
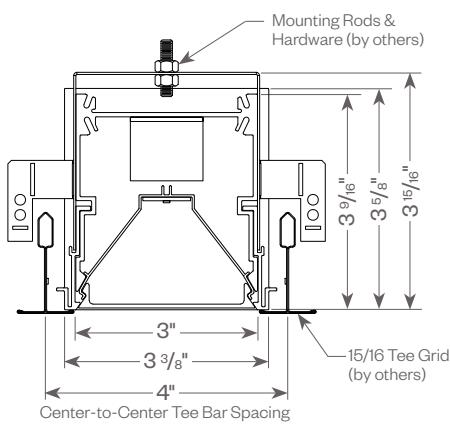


CAR3-R-FLG (Gypsum board exposed flange)



CAR3-R-GRID

15/16 Tee



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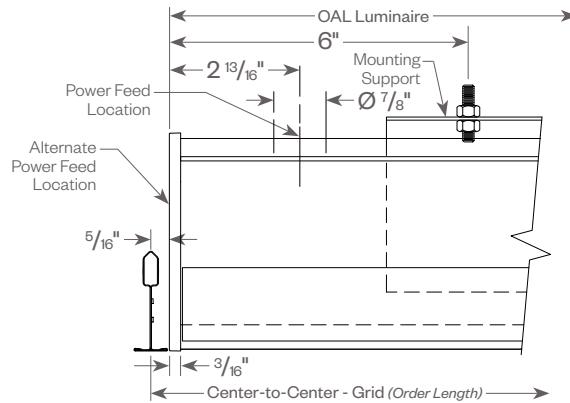
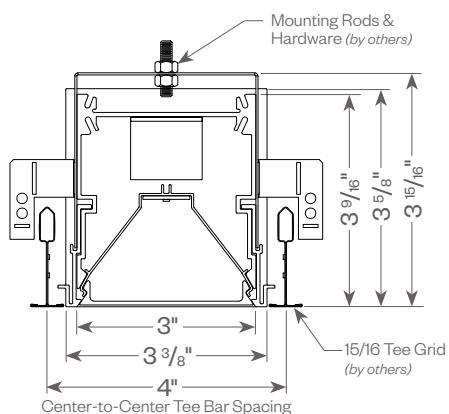
PROJECT:

TYPE:

## Product Details (continued)

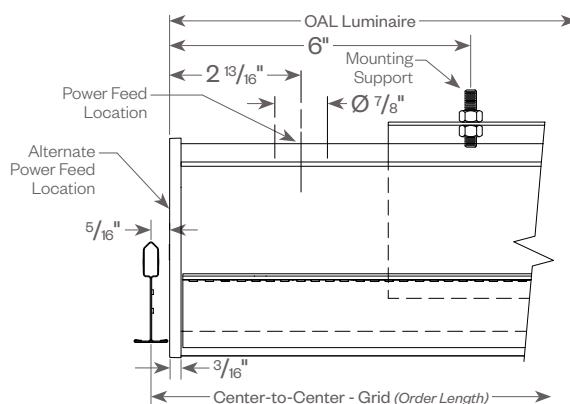
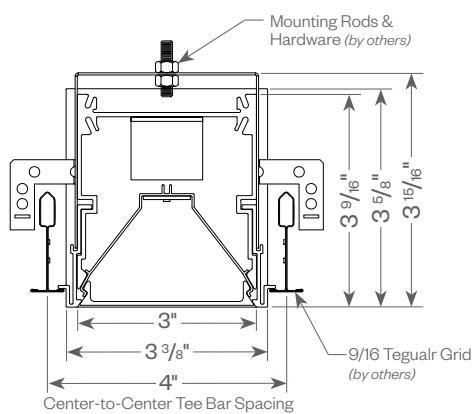
### CAR3-R-GRID

9/16 Tee



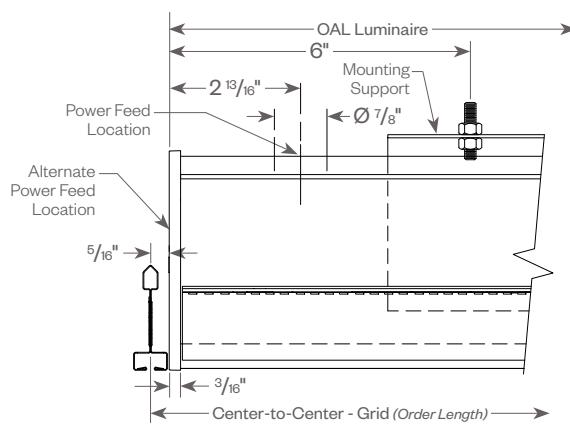
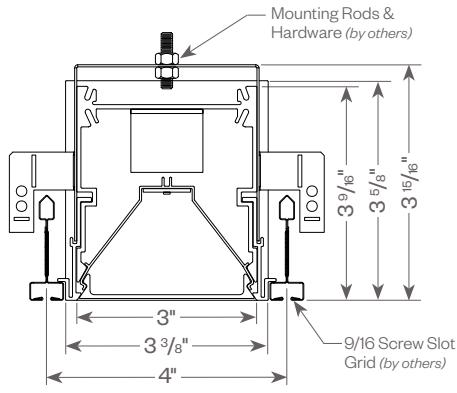
### CAR3-R-GRID

9/16 Tegular



### CAR3-R-GRID

9/16 Screw Slot



Center-to-Center Tee Bar Spacing



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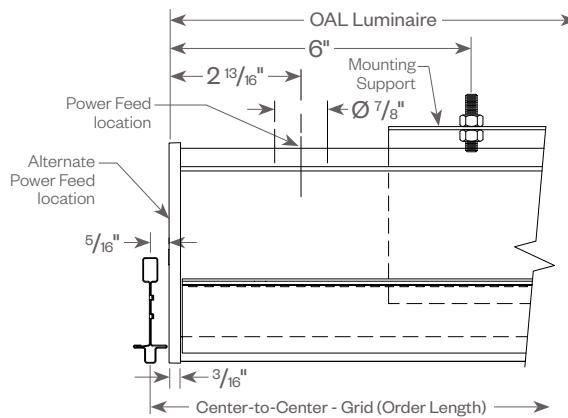
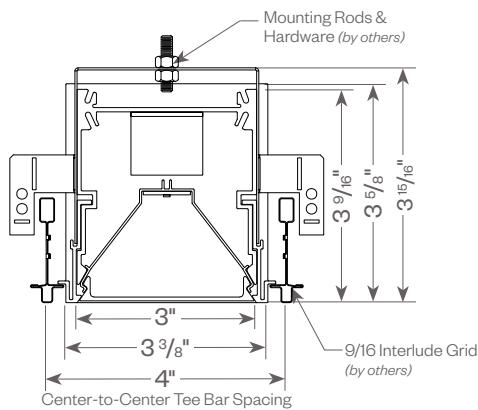
PROJECT:

TYPE:

## Product Details (continued)

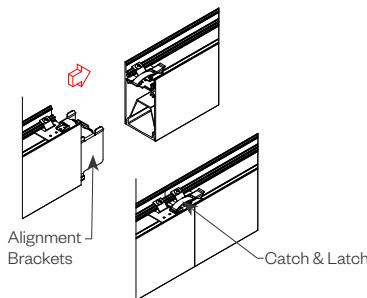
CAR3-R-GRID

9/16 Interlude



## Tool-less Joining

Line up the two housings using the alignment brackets. Secure them together by using the Catch & Latch System on the top of the extrusion.



## Optional Sensor/RF Node

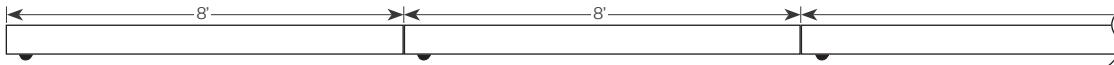
Amerlux® has partnered with control companies to create building environments that are safer and smarter, than ever before. At the heart of our partnership is intelligent RF nodes and Smart Sensor, the most advanced digital wireless communication and sensors available today. Integrated into Amerlux products.

Minimum run length is 3' for wireless sensor and RF node.

### INDIVIDUAL (MIN 3' LENGTH)



### RUNS



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PROJECT:

TYPE:

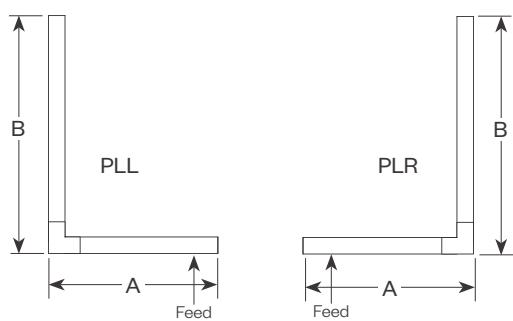
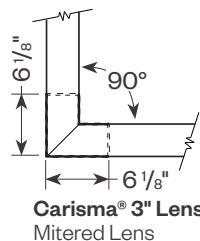
## Carisma® 2" Patterns

### Standard Patterns

All corners are standard 90°, standard length legs.

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

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

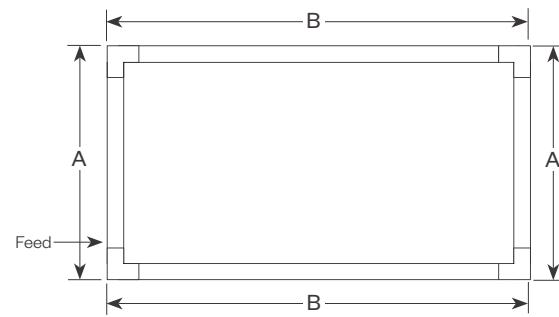


**PLL** - L Left, (2) straights + (1) 90° corner, leg right

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

Provide overall lengths: A' & B'

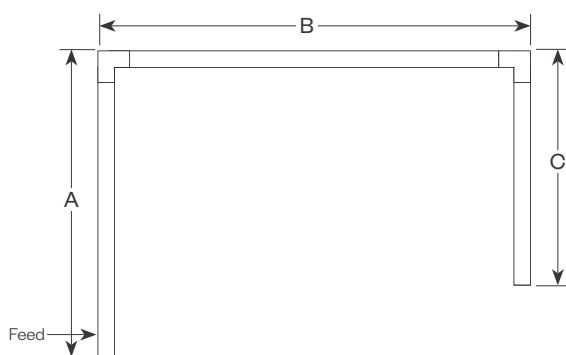
Nomenclature: A-B-PLL A-B-PLR



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

Provide overall lengths: A' & B'

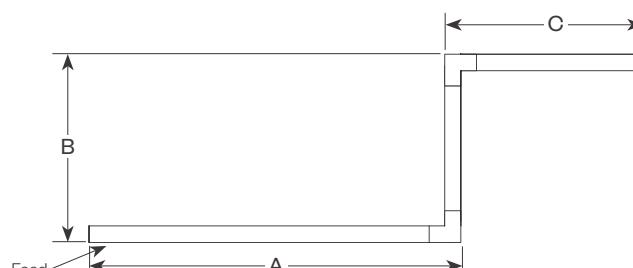
Nomenclature: A-B-PR



**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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# Carisma® 3"

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PROJECT:

TYPE:

## Performance Data

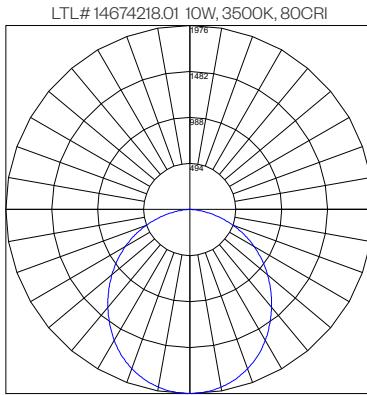
**Multiplying Factors:** (Multiplying Factor is based on 3500K-80 120V IES file on website)

Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.30	0.39	0.51	0.61	0.71	0.81	0.90	1.0

CCT:	3000K-80	3500K-80	4000K-80	2700K-90	3000K-90	3500K-90	4000K-90
Factor:	0.97	1.0	1.02	0.93	0.98	0.98	1.02

Performance Lens			
Ordered Wattage/Ft	Tested Wattage/Ft	Lumens per Ft	LPW
3	3.02	388	129
4	3.95	513	130
5	5.08	658	130
6	6.00	790	132
7	6.98	921	132
8	8.00	1053	132
9	9.00	1178	131
10	10.66	1313	123

Data is based on 3500K, 80 CRI



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## Dimming Compatibility

Amerlux® Carisma® 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 ---

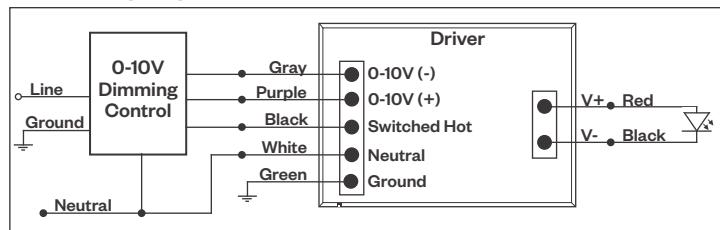
### 0-10V - DIMMING (Standard)

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: Diva - DVSTV	Wattstopper: ADF-120277
Maestro - MS-Z101	Leviton: Renoir II
Nova-T - NTSTV-DV	

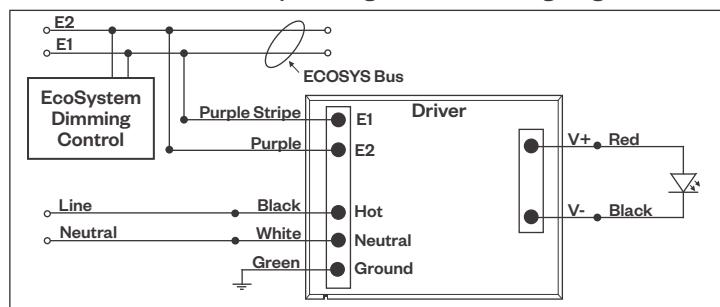
### LUTRON LDE1 DIMMING

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	

#### 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.



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Recessed Linear (compatible with 4" grid ceiling systems)



PROJECT:

TYPE:

## Dimming Compatibility (continued)

Amerlux® Carisma® 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 ---

### DALI - DALI DIMMING 120V-277V

Digital control protocol allows individual fixture control

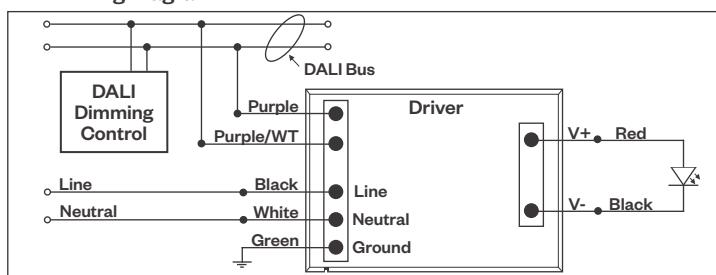
#### Notes:

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

#### Compatible Dimmers<sup>†</sup>:

Wall Box	Central System
Leviton CD250 Controller	Dynalite
	Fifth Light

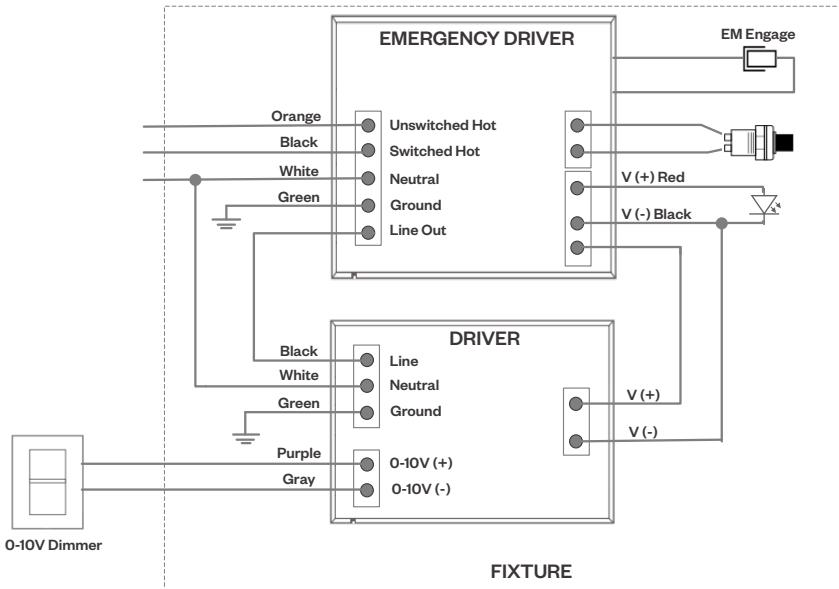
### DALI Wiring Diagram



## Emergency Fixture with Built-In Battery Pack

Emergency fixture with built-in battery pack (EMB) wiring:

Note: EMB not available on lengths under 4'.



#### 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.



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