

Carisma® 2"

Recessed Linear



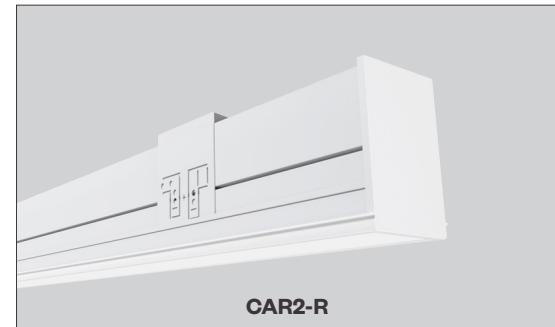
PROJECT:

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.

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®.



CAR2-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 (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	Performance Lens		Asymmetric Lens		Wide Optic Direct Lens	
	Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW
5	2519	126.8	2693	135.6	2565	128.3
10	4755	122.8	5408	128.6	4959	124

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

Electrical Data

Wattage per Foot	4'		8'		
	Voltage	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.

Standard Patterns

□	□	□	□	□	Wall to Ceiling	Custom
Yes	Yes	Yes	Yes	Yes	No	No



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Ordering Information

HW . 120/277 .														
1	2	3	4	5	6	7	8	9	10					
1	Model		2	Optics		3	Wattage (per foot)		4	Color Temp				
	CAR2-R-GB gypsum board trimless mud-in		2	PL performance lens		3	Standard	Optional		80+ CRI				
	CAR2-R-FLG gypsum board exposed flange		3	ASY asymmetric lens		4	30 3000K-80+		5	90+ CRI				
	CAR2-R-GRID grid ceiling mount		4	WOD wide optic direct lens		5	10 10W/ft	3* 3W/ft	6	279 2700K-90+				
			7			8	4* 4W/ft		7	35 3500K-80+				
			9			10	6 6W/ft		8	309 3000K-90+				
							7 7W/ft		9	40 4000K-80+				
							8 8W/ft			359 3500K-90+				
							9 9W/ft			409 4000K-90+				
										<i>* 3' min. length required</i>				
5	Finish	6	Voltage	7	Length									
	HW high reflectance matte white	6	120/277	7	Length	X	X							
				Length A	Length B	Length C								
				- all patterns	- all patterns	- PU								
				- IND	- PR (2 lengths of 2)	- PZ								
				- CON										
				- CUS										
8	Configuration			9	Drivers/Controls									
	IND ¹ individual fixture, 2' to 8' in 1' increments			9	Wired									
	CON continuous run > than 8', specify to nearest foot				0-10V 1% electronic dimming, multi-volt 120-277VAC constant current driver (standard).									
	CUS custom made to measure lengths (specify to nearest 1/8" of field dimensions)				HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black									
	Standard Patterns (see pg 6 for details)				DALI DALI dimming 120-277VAC, 1% dim									
	PLL L left, (2) straights + (1) 90° corner, leg right				Wireless									
	PLR L right, (2) straights + (1) 90° corner, leg left				AWNR-WH-SR Lutron Athena wireless node, RF only, white, D4i/DALI-2									
	PU U shape, (3) straight lengths + (2) 90° corners				AWNR-BL-SR Lutron Athena wireless node, RF only, black, D4i/DALI-2									
	PR Rectangle shape, (4) straight lengths + (4) 90° corners				AWNR-WH-010 Lutron Athena wireless node, RF only, white, 0-10V									
	PZ Z shape, (3) straight lengths + (2) 90° corners				AWNR-BL-010 Lutron Athena wireless node, RF only, black, 0-10V									
10	Options/Accessories													
	CP Chicago Plenum (OCEA)													
	WHIP 6' whip, 18/5 conductor													
	EMC-PF ² emergency circuit requires power feed located in last fixture section (for other locations consult factory)													
	PF ² 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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Recessed Linear



PROJECT:

TYPE:

Specifications

Construction

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

Weights: 3 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.

ASY - Asymmetric distribution for wallwashing.

WOD - Wide Optic Direct lens for maximizing fixture spacing.

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

Straights:

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 ceilings.

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

CAR2-R-GB - gypsum board trimless mud-in, fixture plastered in gypsum board ceiling

CAR2-R-FLG - gypsum board exposed flange, fixture into gypsum board ceiling

CAR2-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 (CCEA) optional

Warranty

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



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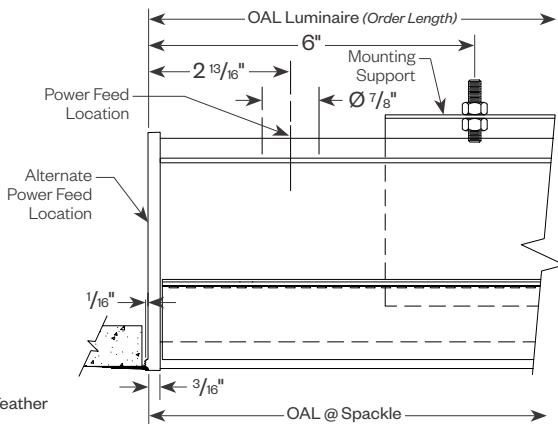
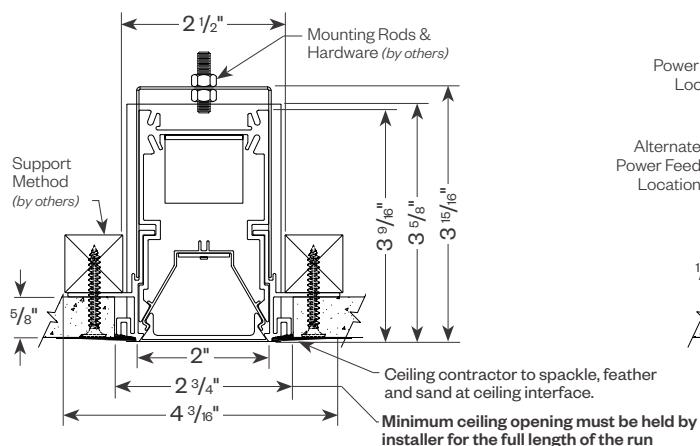


PROJECT:

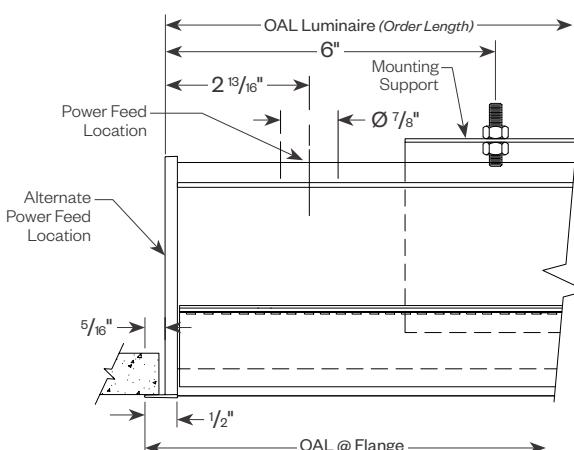
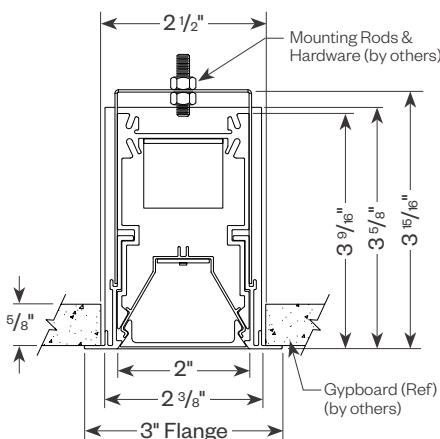
TYPE:

Product Details

CAR2-R-GB (Gypsum board trimless, mud-in)

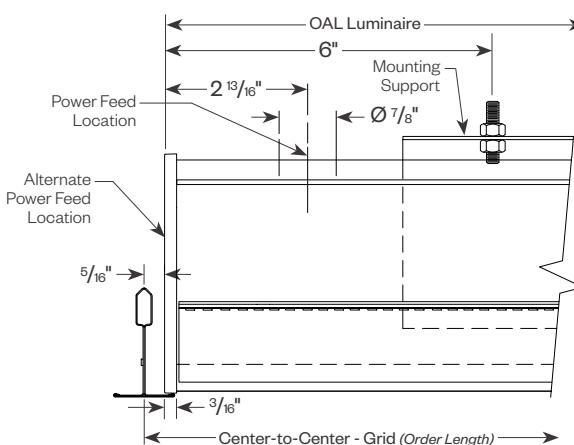
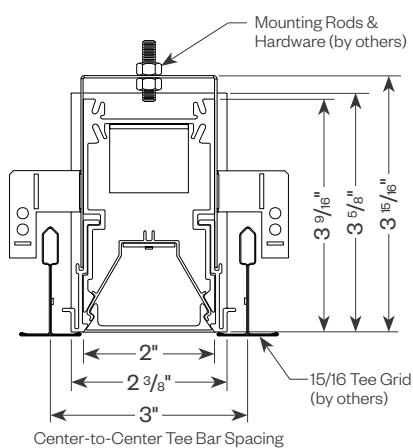


CAR2-R-FLG (Gypsum board exposed flange)



CAR2-R-GRID

15/16 Tee



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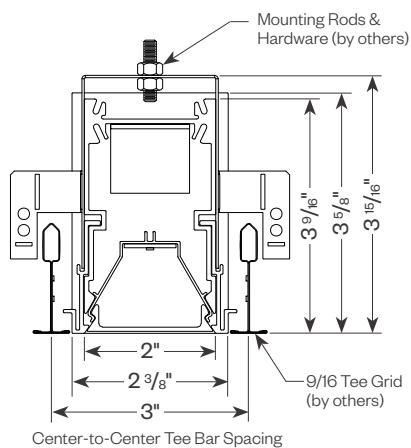
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TYPE:

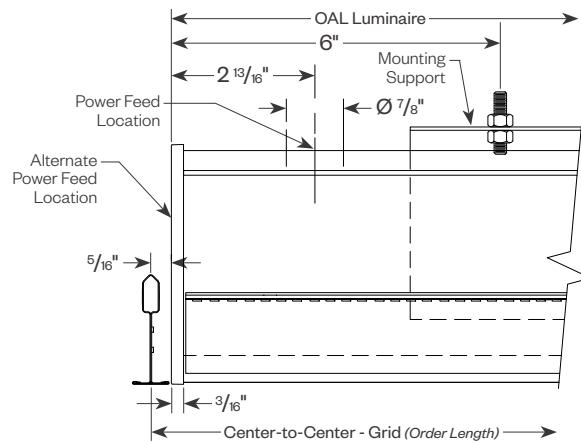
Product Details (continued)

CAR2-R-GRID

9/16 Tee

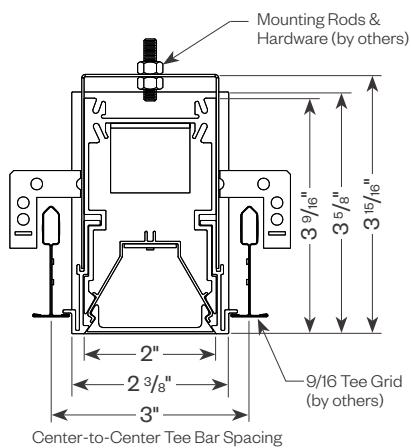


Center-to-Center Tee Bar Spacing

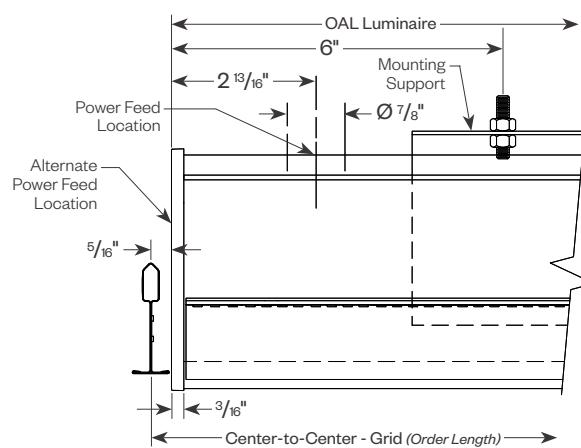


CAR2-R-GRID

9/16 Tegular

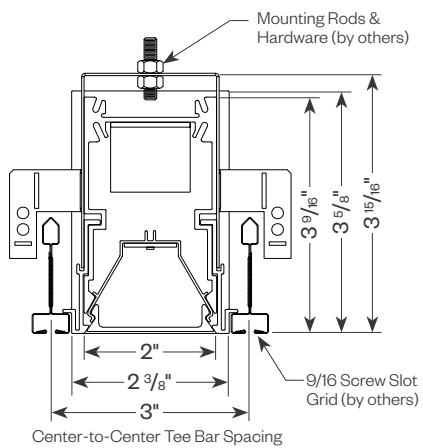


Center-to-Center Tee Bar Spacing

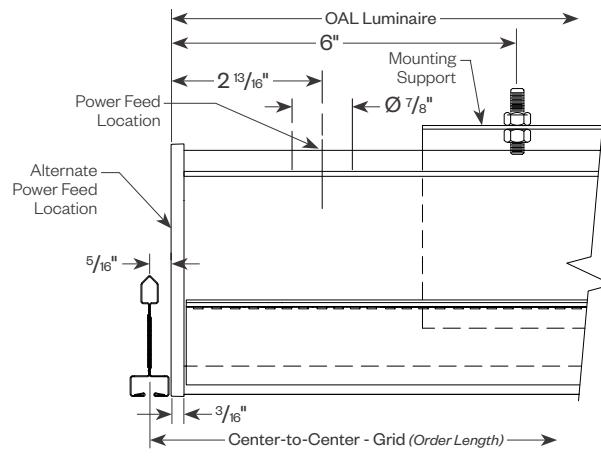


CAR2-R-GRID

9/16 Screw Slot



Center-to-Center Tee Bar Spacing



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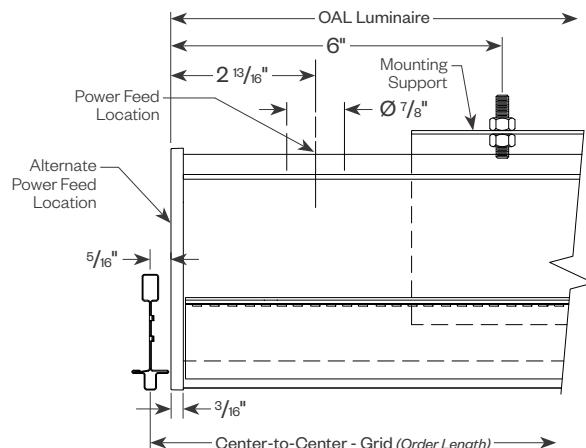
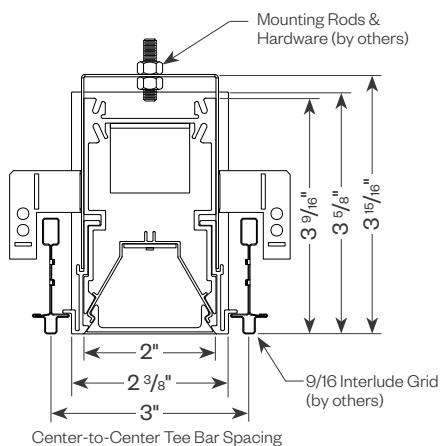
PROJECT:

TYPE:

Product Details (continued)

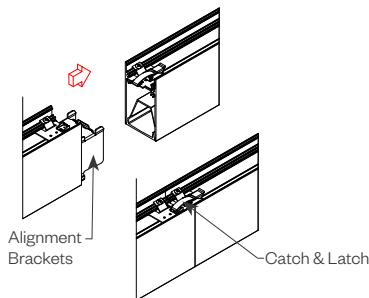
CAR2-R-GRID

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.

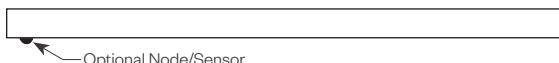


Optional Sensor/RF Node

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:

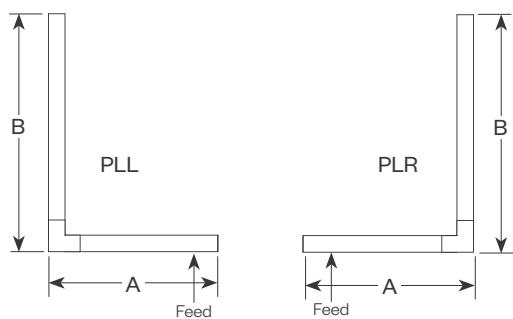
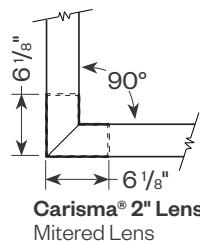
Carisma® 2" Patterns

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.

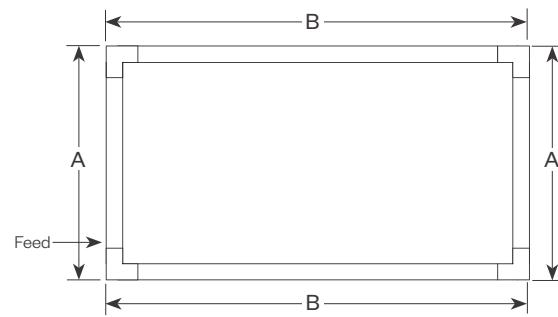


PLL - L Left, (2) straights + (1) 90° corner, leg right

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

Provide overall lengths: A' & B'

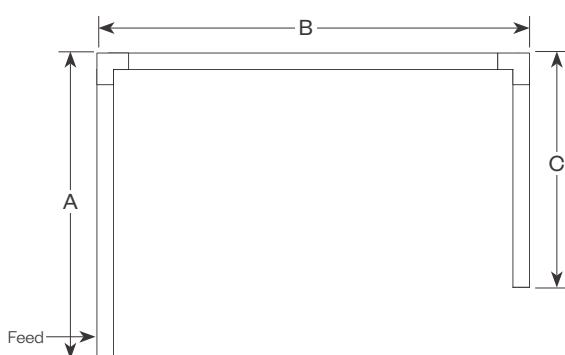
Nomenclature: A-B-PLL A-B-PLR



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

Provide overall lengths: A' & B'

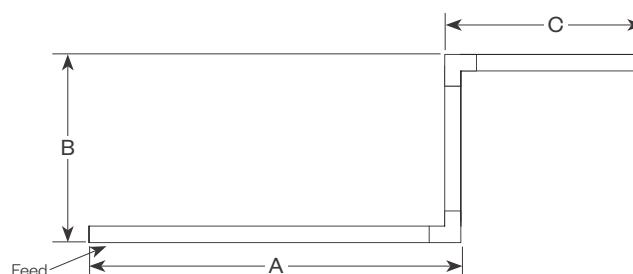
Nomenclature: A-B-PR



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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PROJECT:

TYPE:

Performance Data

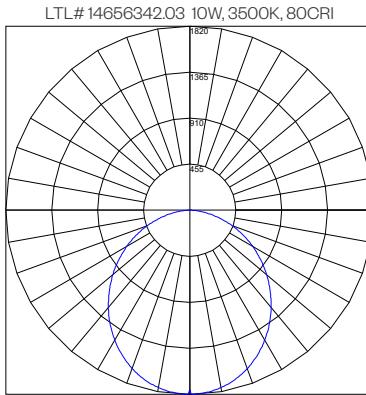
Multiplying Factors: (Multiplying Factor is based on 3500K-80 120V IES file on website)

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

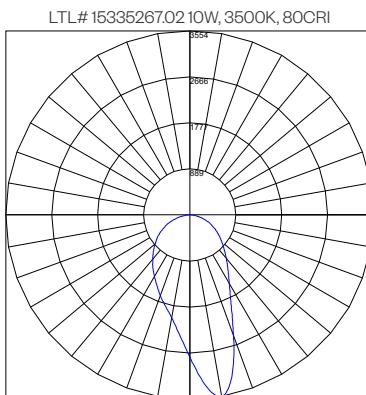
Performance Lens			
Ordered Wattage/Ft	Tested Wattage/Ft	Lumens per Ft	LPW
3	3.02	372	123
4	3.95	491	124
5	4.96	630	127
6	6.00	756	126
7	6.98	882	126
8	8.00	1008	125
9	9.00	1128	125
10	9.66	1189	123

Data is based on 3500K, 80CRI



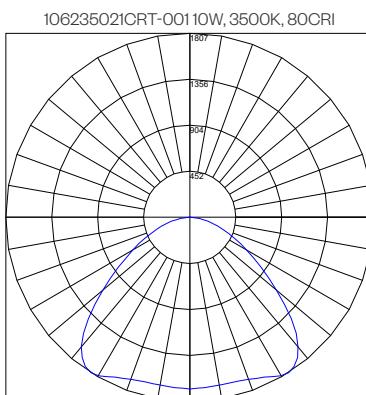
Asymmetric Lens			
Ordered Wattage/Ft	Tested Wattage/Ft	Lumens per Ft	LPW
3	3.02	397	131
4	3.95	525	133
5	4.96	673	136
6	6.00	808	135
7	6.98	942	135
8	8.00	1077	135
9	9.00	1205	134
10	10.50	1352	129

Data is based on 3500K, 80CRI



Wide Optic Lens			
Ordered Wattage/Ft	Tested Wattage/Ft	Lumens per Ft	LPW
3	3.02	378	125
4	3.95	500	127
5	4.96	641	129
6	6.00	769	128
7	6.98	897	129
8	8.00	1026	128
9	9.00	1147	127
10	9.90	1240	125

Data is based on 3500K, 80CRI



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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 ---

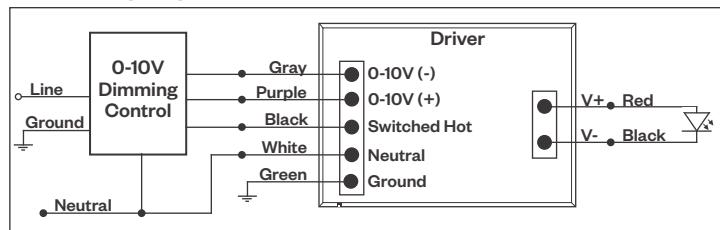
0-10V - DIMMING (Standard)

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

Lutron:

Wattstopper:

Leviton:

Lutron Grafix Eye with GRX-TV1 Interface

Diva - DVSTV

ADF-120277

Renoir II

Maestro - MS-Z101

Nova-T - NTSTV-DV

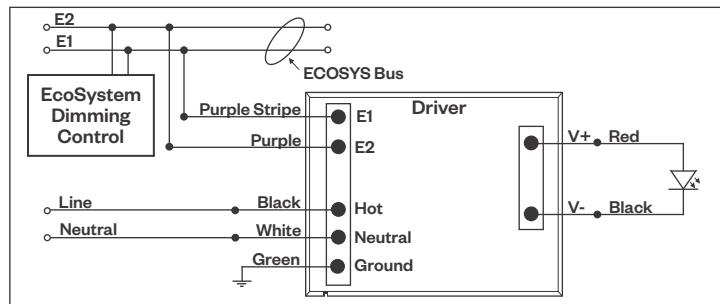
LUTRON LDE1 DIMMING

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

Pow Pak Dimming Modules

Central System

Lutron EcoSystem compatible controls

Energi Savr Node

Grafix 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.



Delta Intelligent Building Technologies

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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

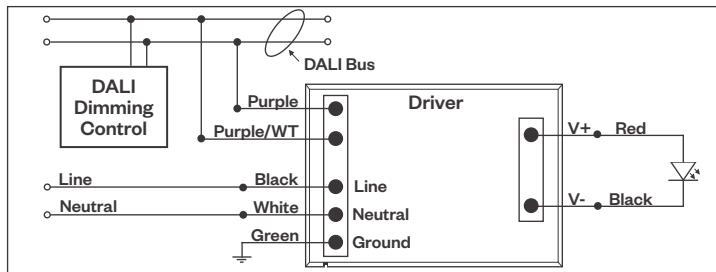
Notes:

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

Compatible Dimmers[†]:

Wall Box	Central System
Leviton CD250 Controller	Dynalite
	Fifth Light

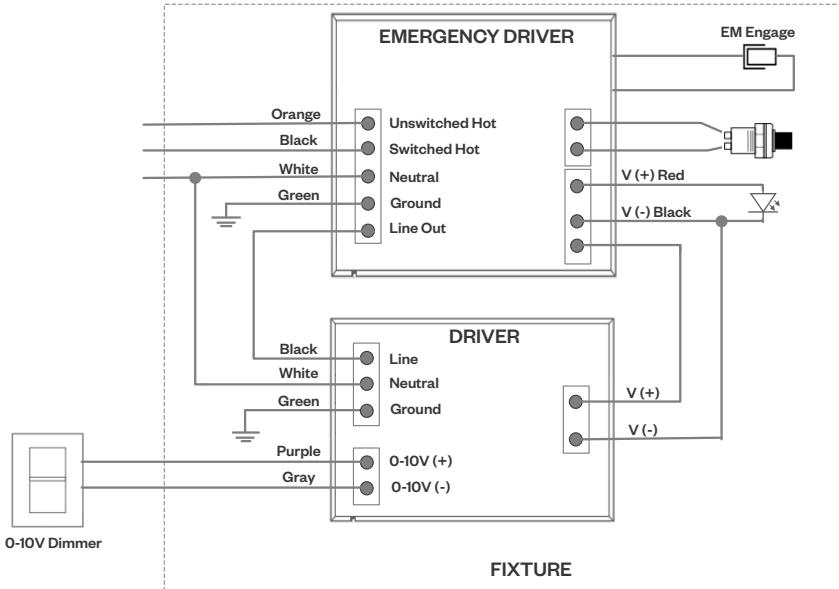
DALI Wiring Diagram



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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