Recessed Linear

PROJECT:



TYPE:

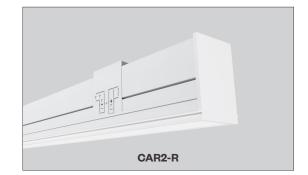
Features

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®.

Product Overview

Туре:	Direct distributrion 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 <i>(standard)</i>
	Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black
	DALI, 1% dim
Dimming (wireless):	Lutron Athena <i>(integral wireless RF node)</i> BubblyNet Bluetooth



Certifications



Fixture Summary

Performance Data

Wattage per Foot	Lens	Delivered Lumens	LPW
5	PL	2519	126.8
10	PL	4755	122.8
5	ASY	2693	135.6
10	ASY	5408	128.6

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

Electrical Data

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

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

Standard Patterns

L					Wall to Ceiling	Custom
Yes	Yes	Yes	Yes	Yes	No	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.



Recessed Linear

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Ordering Information

Model	2	Optic	S	3	Wattage (p	er foot)	4	Color Temp	
CAR2-R-GB gypsum board trimless mud-			erformance lens	•	Standard	<u>Optional</u>		<u>80+ CRI</u>	<u>90+ CRI</u>
CAR2-R-FLG gypsum board exposed flar		ASY	asymmetric lens		5 5W/ft	3* 3W/ft		30 3000K-80+	279 2700K-90+
CAR2-R-GRID grid ceiling mount					10 10W/ft	4* 4W/ft		35 3500K-80+	309 3000K-90+
						6 6W/ft		40 4000K-80+	359 3500K-90+
						7 7W/ft			409 4000K-90+
						8 8W/ft			
						9 9W/ft			
					* 3' min. leng	gth required			
Finish 6	Voltage	7	Length						
HW high reflectance matte white	120/277			- ×		X			
			Length A		Length B	Leng	gth C		
			- all patterns	- a	ll patterns	- PU			
			- IND	- P	R (2 lengths of	2) - PZ			
			- CON						
			- CUS						
Configuration			9 Drivers/Contr	ols					
IND¹ individual fixture, 2' to 8' in 1' incremen			Wired						
CON continuous run > than 8', specify to no					0			constant current dr	iver (standard).
CUS custom made to measure lengths (sp 1/8" of field dimensions)	ecify to neares	st					Soft-Or	n/Fade-to-Black	
Standard Dattorna (ass as 6 for dataile)			DALI DALI dim Wireless	nming	120-277VAC,	1% dim			
Standard Patterns (see pg 6 for details) PLL L left, (2) straights + (1) 90° corner, leg	right			D Lutr	on Athona wi	eless node R	Fonlys	white, D4i/DALI-2	
PLR L right, (2) straights + (1) 90° corner, leg	0							lack, D4i/DALI-2	
PU U shape, (3) straight lengths $+$ (2) 90° c	0		AWNR-WH-01						
PR Rectangle shape, (4) straight lengths +		ers	AWNR-BL-010				, .		
PZ Z shape, (3) straight lengths $+$ (2) 90° co									nt sensor, white, D4i/DA
			AWNR-OCC-E	BL-SR	Lutron Athe	na wireless no	de, Oco	cu pancy & Dayligh	t sensor, black, D4i/DAl
			AWNR-OCC-	NH-0 ⁻	10 Lutron Ath	iena wireless r	node, O	ocupancy & Daylig	ht sensor, white, 0-10V
			AWNR-OCC-E	3L-010	D Lutron Athe	ena wireless no	ode, Oc	cupancy & Dayligh	t sensor, black, 0-10V
			BN-BT-OCC-\	WH-S	R BubblyNet	Bluetooth noc	le, Occ	upancy & Daylight	sensor, white, D4i/DALI
			BN-BT-OCC-\	WH-0	10 BubblyNet	Bluetooth no	de, Oco	cupancy & Daylight	sensor, white, 0-10V

EMC-PF² emergency circuit requires power feed located in last fixture section (for other locations consult factory)

 $\ensuremath{\text{PF}}^2$ 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.



Recessed Linear

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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 throw lens.

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

 ${\rm HW}$ - 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.

<u>Please note</u> - 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"

Options

Interlude ceilings

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.



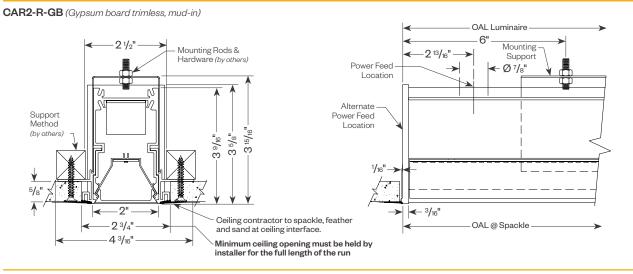
Recessed Linear

PROJECT:

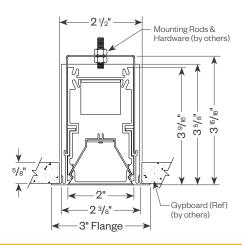


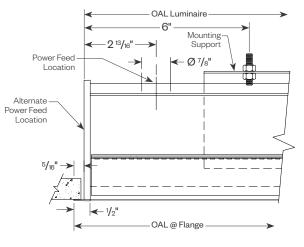
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Product Details

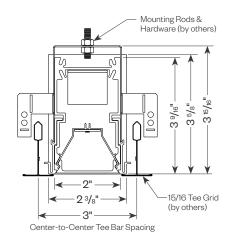


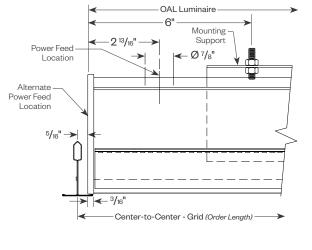
CAR2-R-FLG (Gypsum board exposed flange)





CAR2-R-GRID 15/16 Tee







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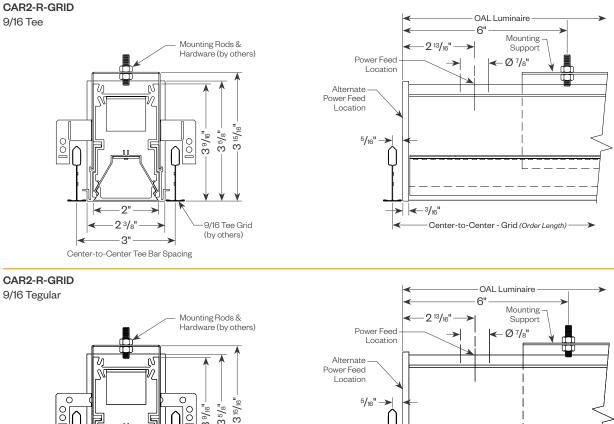
Recessed Linear

PROJECT:

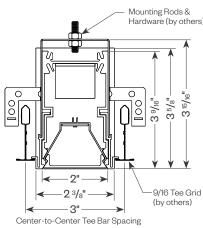


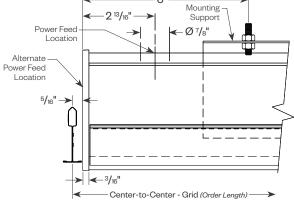
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Product Details (continued)

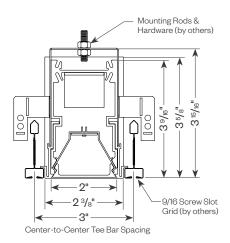


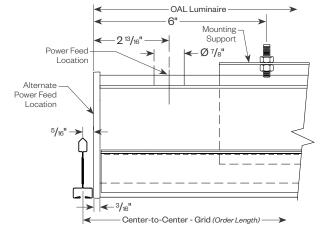
CAR2-R-GRID 9/16 Tegular





CAR2-R-GRID 9/16 Screw Slot







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PROJECT:

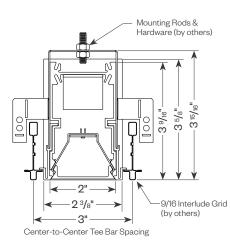


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Product Details (continued)



9/16 Interlude



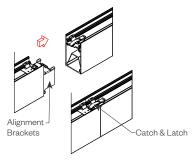
2 13/16 Support Power Feed Ø 7/8" Location Alternate Power Feed Location ⁵/₁₆" → 3/16 Center-to-Center - Grid (Order Length)

OAL Luminaire 6"

Mounting

Tool-less Joining

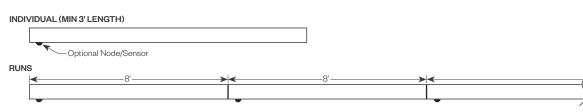
Line up the two housings using the alignment brackets. Secure them together by using the Catch & Latch System on the top of the extrusion.



Optional Sensor/RF Node

Ameriux® 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 Amerilux products.

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





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Recessed Linear

PROJECT:



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Feed

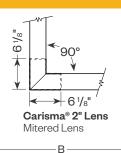
Carisma® 2" Patterns

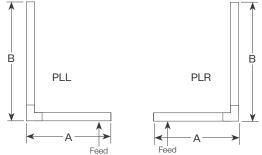
Standard Patterns

All corners are standard 90°, standard length legs.

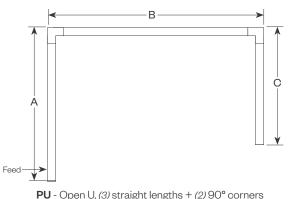
Use standard lengths: 4' to 8' in 1 foot increments.

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

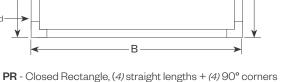




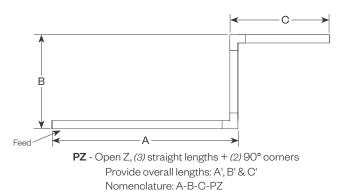
PLL - L Left, (2) straights + (1) 90° corner, leg right
PLR - L Right, (2) straights + (1) 90° corner, leg left
Provide overall lengths: A' & B'
Nomenclature: A-B-PLL A-B-PLR



PU - Open U, (3) straight lengths + (2) 90° corners Provide overall lengths: A', B' & C' Nomenclature: A-B-C-PU



PR - Closed Rectangle, (4) straight lengths + (4) 90° corners Provide overall lengths: A' & B' Nomenclature: A-B-PR



Recessed Linear

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: 0.59 0.78 1.0 1.20 1.40 1.60 1.79 1.9	Factor:	0.59	0.78	1.0	1.20	1.40	1.60	1.79	1.98

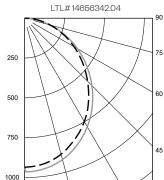
CCT:	3000K-80	3500K-80	4000K-80	2700K-90	3000K-90	3500K-90	4000K-90
Factor:	0.97	1.0	1.02	0.90	0.92	0.92	0.94

CARISMA® 2" DIRECT PERFORMANCE LENS 5W 3500K 4FT

Total Watts: 20

Total Lumens: 2,519

Source: 192 White LED's



	UMEN SUMMA	
Zone	Lumens	%Fixt
0-40	1154	45.8
0-60	1990	79.0
0-90	2519	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 126.8 lm/W

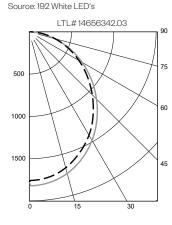
RC		8	30	
RW	70	50	30	10
RCR				
0	119	119	119	119
1	109	104	100	96
2	99	91	84	78
3	90	80	71	65
4	83	71	62	55
5	76	63	54	48
6	70	57	48	42
7	65	52	43	37
8	61	47	39	33
9	57	43	35	30
10	53	40	32	27

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

CARISMA® 2" DIRECT PERFORMANCE LENS 10W 3500K 4FT

Total Watts: 39

Total Lumens: 4,755



ZONAL LUMEN SUMMARY						
Zone	Lumens	%Fixt				
0-40	2177	45.8				
0-60	3754	78.9				
0-90	4755	100.0				
90-180	0	0.0				

Efficacy (lumens/watt) = 122.8 lm/W

COEFFICIENTS OF UTILIZATION

RC		8	0	
RW	70	50	30	10
RCR				
0	119	119	119	119
1	109	104	100	96
2	99	91	84	78
3	90	80	71	65
4	83	71	62	55
5	76	63	54	48
6	70	57	48	42
7	65	52	43	37
8	61	47	39	33
9	57	43	35	30
10	53	40	32	27

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



Recessed Linear

PROJECT:

TYPE:

0.92

4000K-90

0.94

Performance Data (continued)

0.97

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

Wat	tage:	3W	4W	5W	6W	7W	8W	9W	10W
Fac	tor:	0.59	0.78	1.0	1.20	1.40	1.60	1.79	1.98
CC	Г: ;	3000K-8	30 35	00K-80	400	0K-80	2700	K-90	3000K

1.02

0.90

CARISMA® 2" DIRECT	ASYMMETRIC	LENS 5W	3500K 4FT

Total Watts: 20

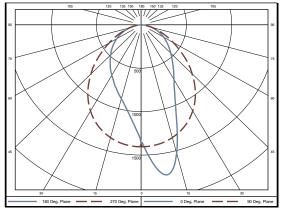
Factor:

Total Lumens: 2693

Source: 192 White LED's

LTL# 15335267.01

1.0



ZONAL LUMEN SUMMARY Zone Lumens %Fixt

0.92

Zone	Lumens	70F1XL	
0-40	1446	53.7	
0-60	2259	83.9	
0-90	2692	100.0	
90-180	0	0.0	

Efficacy (lumens/watt) = 135.6 lm/W

COEFFICIENTS OF UTILIZATION

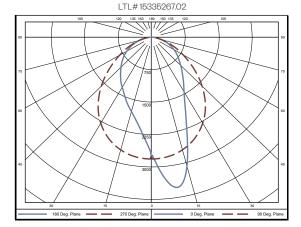
RC	80				
RW	70	50	30	10	
RCR					
0	119	119	119	119	
1	110	105	102	98	
2	101	93	87	82	
3	93	83	75	69	
4	86	74	66	60	
5	79	67	58	53	
6	74	61	53	47	
7	69	56	48	42	
8	64	51	43	38	
9	60	48	40	34	
10	57	44	37	32	

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

CARISMA® 2" DIRECT ASYMMETRIC LENS 10W 3500K 4FT

Total Watts: 42

Total Lumens: 5408 Source: 192 White LED's



ZONAL L	ZONAL LUMEN SUMMARY					
Zone	Lumens	%Fixt				
0-40	2906	53.7				
0-60	4535	83.9				
0-90	5408	100.0				
90-180	0	0.0				

Efficacy (lumens/watt) = 128.6 lm/W

COEFFICIENTS OF UTILIZATION

RC	80				
RW	70	50	30	10	
RCR					
0	119	119	119	119	
1	110	105	102	98	
2	101	93	87	82	
3	93	83	75	69	
4	86	74	66	60	
5	79	67	58	53	
6	74	61	53	47	
7	69	56	48	42	
8	64	51	43	38	
9	60	48	40	34	
10	57	44	37	32	

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



Delta Intelligent Building Technologies



Recessed Linear

PROJECT:

TYPE:

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.

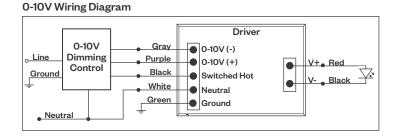
--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

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!



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

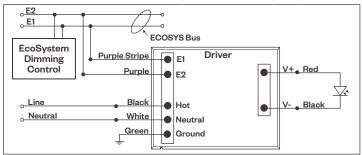
Notes:

- 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



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.





Recessed Linear

amerlu

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

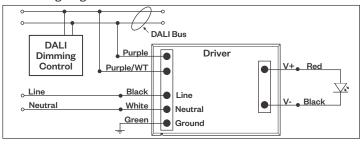
Notes:

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

Compatible Dimmers*: Wall Box Central Leviton CD250 Controller Dynalite

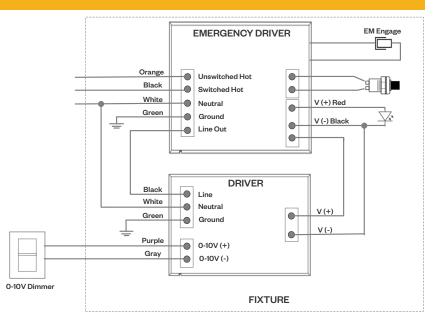
Wall DOX	Central System
Leviton CD250 Controller	Dynalite
	Fifth Light

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.

