

PROJECT:

TYPE:

Features

Stadia® is a collection of architectural decorative downlights that offers designers a new way to add visual interest in a space while providing soft, uniform ambient lighting. Stadia downlights have a soft square trim extending 2" below the ceiling that is offered in a variety of standard and premium finishes including neutrals, hues, metallic and wood grain finishes. The trim is offered in 2 sizes: 5" and 8" and is offered both with a single-tone finish, where the outer trim and inner bevel have the same finish, or a two-tone finish, where the outer trim and inner bevel have different finishes.



Product Overview

Type: Architectural Decorative Downlight
 Wattage: 9W, 12W, 18W, 23W, 34W
 Color Temp: 2700K, 3000K, 3500K, 4000K
 CRI: 90+ typ.
 Dimming: 0-10V, 1% Dim, 120/277VAC
 TRIAC & ELV, 5% Dim, 120/277VAC
 DALI, 1% Dim, 120/277VAC
 Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black, 120/277VAC

Certifications



Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	Color Temp-CRI
9	850	94.4	3500K-90+
12	1200	100.0	3500K-90+
18	1700	94.4	3500K-90+
23	2200	95.7	3500K-90+
34	3102	91.2	3500K-90+

Stadia allows designers to mix different sizes and finishes to add visual interest to the ceiling. When used in a cluster, the below table shows visually similar lumen packages for the 5" and 8":

5"	8"
325 lm	850 lm
700 lm	1700 lm
1250 lm	3102 lm

Electrical Data

Voltage	9W		12W		18W		23W		34W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	8.5	0.07	12.1	0.10	17.3	0.14	22.9	0.19	34.07	0.28
277V	9.3	0.03	12.4	0.05	17.4	0.06	22.9	0.08	33.8	0.12

Electronic constant current LED driver.

PROJECT:

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Ordering Information - Housing/Frame

1	2	3	4	5	6	
1 Model STADIA-88-NC New Construction Housing for 8" Stadia	2 Style SST soft square trim (<i>semi-recessed</i>)	3 Wattage 9 12 18 23 34	4 Voltage 120 277	5 Driver O-10V 0-10V dimming, 1% dim LE/TE TRIAC/ELV dimming, 5% dim DALI DALI dimming, 1% dim HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black	6 Options/Accessories EM - emergency battery pack with remote test switch HB49 - hanger bars from min 29" to max 49" <i>Note: 26" hanger bars are included as standard. Choose HB49 option above for larger mounting spaces only.</i>	

Ordering Information - Trim

1	2	3	4	5	6	7
1 Model STADIA-88 8"x8" Stadia	2 Style SST soft square trim (<i>semi-recessed</i>)	3 Finish Type 1T single tone 2T two tone	4 Body Finish Classic: MW matte white MB matte black SLV matte silver Glossy Hue: PGR pearl opal green (RAL 6036) PBL pearl gentian blue (RAL 5025) PRD pearl ruby red (RAL 3032) Metallic: MGD metallic gold Wood Grain: WAS wood grain ash WCH wood grain chestnut WWA wood grain walnut WEB wood grain ebony	5 Bevel Finish Classic: MW matte white MB matte black SLV matte silver Glossy Hue: PGR pearl opal green (RAL 6036) PBL pearl gentian blue (RAL 5025) PRD pearl ruby red (RAL 3032) Metallic: MGD metallic gold	6 Beam Spread VWF very wide flood, 88°	7 Color Temp-CRI 279 2700K-90+ 309 3000K-90+ 359 3500K-90+ 409 4000K-90+

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Specifications

Housing Construction

Steel frame and housing
Die-cast aluminum outer trim and bevel
Internal components are die-formed cold-rolled steel

Optical

Nominal 1/8" white acrylic lens for soft even illumination

LED

Color Temp Options: 2700K, 3000K, 3500K, 4000K
CRI: 90+ typ.
R9 Values: > 50 (90+ CRI)
Binning: 3 MacAdam (SDCM)

Electrical

Wattage: 9W, 12W, 18W, 23W, 34W
Electronic constant current LED driver

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

O-10V - 1% electronic dimming, multivolt (120-277VAC) constant current driver (standard). Cap leads for non-dim applications.
LE/TE - Leading Edge, TRIAC, forward phase/Trailing Edge, ELV, reverse phase, dedicated voltage, (120V or 277V)
DALI - DALI dimming, 1% dim (120-277VAC)
See pages 6-8 for more dimming information

Mounting

For use in grid or sheetrock ceilings, 5/8" thick
(Consult factory for thicker ceilings)
26" Hanger bars included
Optional **HB49** - hanger bars from min 29" to max 49" available

Certifications

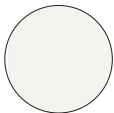
CSA approved to UL standards as tested by CSA
For indoor use only

Warranty

5 year limited warranty

Finish Types

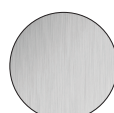
Classic



Matte White
MW



Matte Black
MB

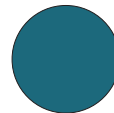


Matte Silver
SLV

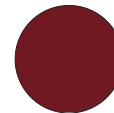
Glossy Hue



Pearl Opal Green
PGR



Pearl Gentian Blue
PBL



Pearl Ruby Red
PBR

Metallic



Metallic Gold
MGD

Wood Grain



Wood Grain Ash
WAS



Wood Grain Chestnut
WCH



Wood Grain Walnut
WWA

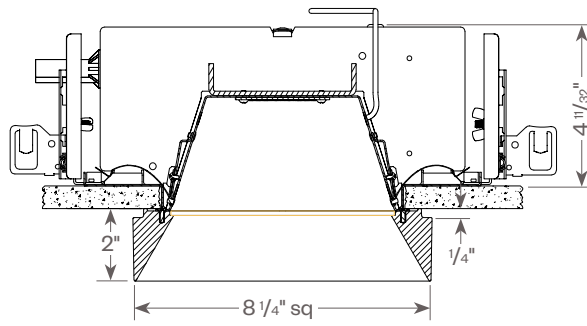
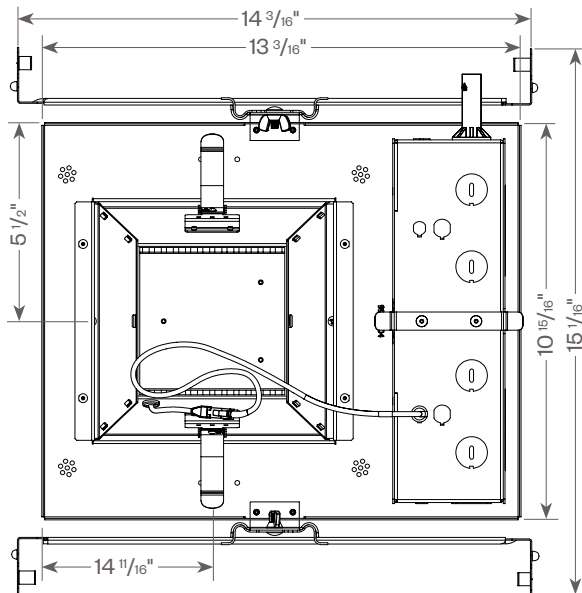


Wood Grain Ebony
WEB

PROJECT:

TYPE:

Product Details



Ceiling Cutout: $6 \frac{3}{4} \times \frac{9}{16}$ SQ.

PROJECT:

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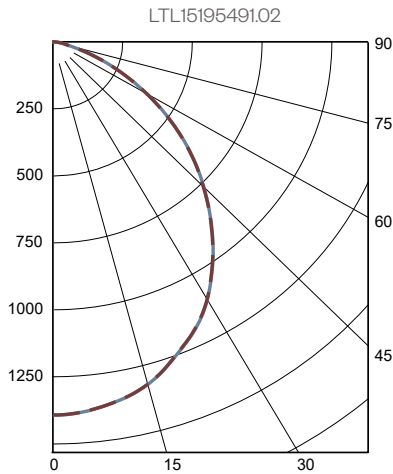
Performance Data

Multiplying Factors: (Complete photometric data (.ies format) available on website)

Wattage:	9W	12W	18W	23W	34W
Factor:	0.27	0.39	0.55	0.71	1.0

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

34W, 3500K-90+



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-40	1676	53.9%
0-60	2731	87.9%
0-90	3107	100.0%
90-180	0	0.0%

Luminaire Efficacy: 91.2 lm/W

Coefficiency of Utilization

Effective Floor Cavity Reflectance 20%

RC	80			
	70	50	30	10
RW				
RCR				
0	119	119	119	119
1	110	106	103	99
2	102	94	88	83
3	93	84	77	71
4	86	75	67	61
5	80	68	59	53
6	74	61	53	47
7	69	56	48	42
8	64	51	43	38
9	60	47	39	34
10	56	44	36	31

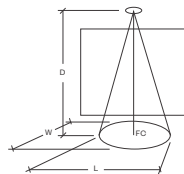
Note: Values are expressed as percent of total lumen output delivered to task surface.

Application Data



**0° Aiming Angle
Horizontal
Footcandles**

	D	FC	L	W
Very Wide Flood	5.0'	61	5.8	5.8
	7.5'	27	8.8	8.8
	10.0'	15	12.3	12.3
	12.5'	10	16.2	16.2



Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).

D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

L=Effective Visual Beam length in feet (50% of maximum footcandle level).

W=Effective Visual Beam width in feet (50% of maximum footcandle level).

PROJECT:

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Dimming Compatibility

Amerlux® Stadia® 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 ---

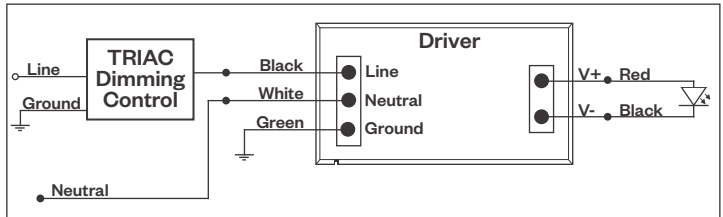
TRIAC (Forward Phase) DIMMING (Standard)

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"	

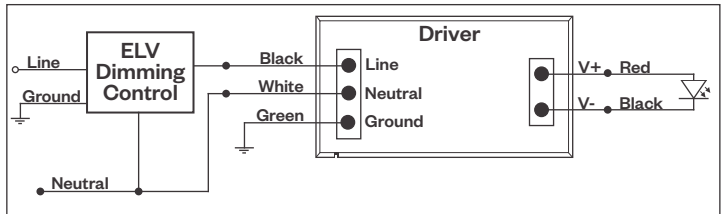
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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® Stadia® 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 ---

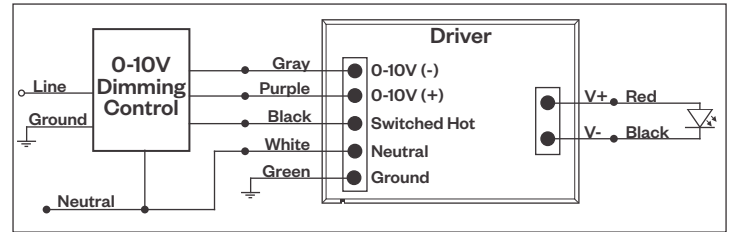
0-10V DIMMING

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	Central System
Lutron "Diva" - DVSTV	Leviton Renoir II 0-10V
	Lutron Grafik Eye with GRX-TVI Interface

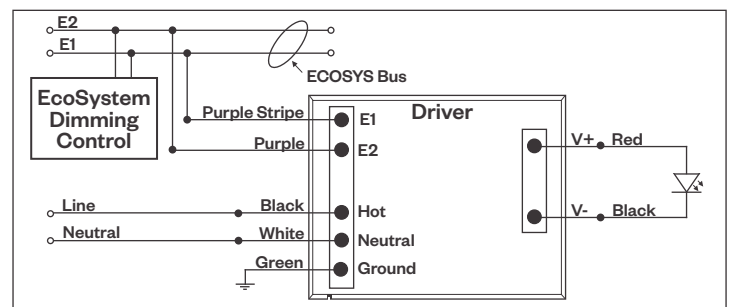
LUTRON LDE1 DIMMING

Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- Dims down to 1% light output
- 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
Energj Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

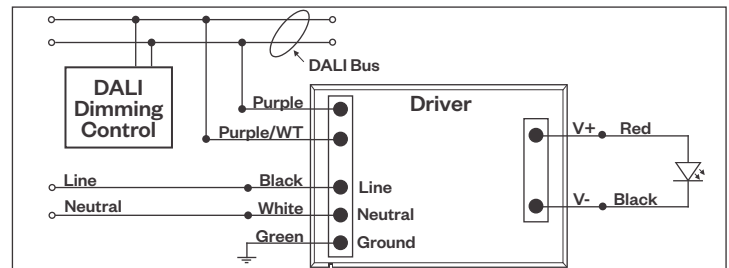
DALI DIMMING

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)	Central System
Leviton CD250 Controller	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.

PROJECT:

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Emergency Battery Pack

Wiring Diagram

