STADIA
collection

Stadia 8" Downlight

amerlux
A Delta Group Company

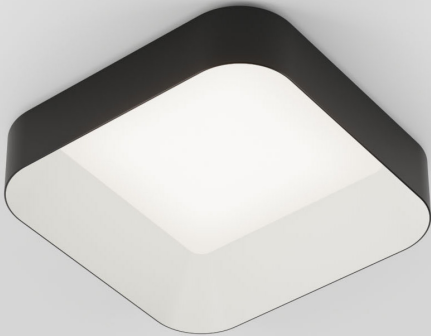## Features

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

Fixture Type: Architectural Decorative Downlight
Wattage: 9, 12, 18, 23, 34
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% Dim Soft-On/Fade-to-Black *(120/277VAC)*

Product Overview

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

See separate spec sheet for Stadia 8"

Electrical Data

	9W		12W		18W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	8.5	0.07	12.1	0.10	17.3	0.14
277V	9.3	0.03	12.4	0.05	17.4	0.06

	23W		34W	
	System Watts	Amps	System Watts	Amps
120V	22.9	0.19	34.07	0.28
277V	22.9	0.08	33.8	0.12

Electronic constant current LED driver

5 year limited warranty
AMERLUX LED

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Housing/Frame Ordering Information

_____._____._____._____._____._____

        1   **2**   **3**   **4**   **5**   **6**

1 Model	**2** Style	**3** Wattage
STADIA-88-NC New Construction Housing for 8" Stadia	**SST** soft square trim (semi-recessed)	9
		12
		18
		23
		34

4 Voltage	**5** Driver	**6** Options
120	**0-10V** 0-10V dimming, 1% dim	**EM** emergency battery pack with remote test switch
277	**LE/TE** TRIAC/ELV dimming	**HB49** hanger bars from min 29" to max 49"
	DALI DALI dimming, 1% dim	
	HILUME-H-ECO Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black	

Trim Ordering Information

_____._____._____._____._____._____._____

     1   **2**   **3**   **4**   **5**   **6**   **7**

1 Model	**2** Style	**3** Finish Type
STADIA-88 8"x8" Stadia	**SST** soft square trim (semi-recessed)	**1T** single tone
		2T two tone

4 Body Finish	**5** Bevel Finish	**6** Beam Spread	**7** CCT-CRI
Classic:	**Classic:**	**VWF** very wide flood, 88°	**279** 2700K-90+
MW matte white	**MW** matte white		**309** 3000K-90+
MB matte black	**MB** matte black		**359** 3500K-90+
SLV matte silver	**SLV** matte silver		**409** 4000K-90+
Glossy Hue:	**Glossy Hue:**		
PGR pearl opal green *(RAL 6036)*	**PGR** pearl opal green *(RAL 6036)*		
PBL pearl gentian blue *(RAL 5025)*	**PBL** pearl gentian blue *(RAL 5025)*		
PRD pearl ruby red *(RAL 3032)*	**PRD** pearl ruby red *(RAL 3032)*		
Metallic:	**Metallic:**		
MGD metallic gold	**MGD** metallic gold		
Wood Grain:			
WAS wood grain ash			
WCH wood grain chestnut			
WWA wood grain walnut			
WEB wood grain ebony			

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PROJECT: **TYPE:**

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: 34
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
0-10V - 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 voltge, (120V or 277V)
DALI - DALI dimming, 1% dim (120-277VAC)
See pages xx for more dimming information

Mounting
For use in grid or sheetrock ceilings, ⅝" thick
Consult factory for thicker ceilings
26" Hanger bars included
Consult factory for hanger bars greater than 26"
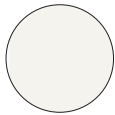
Certifications
CSA approved to UL standards as tested by CSA
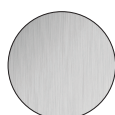For indoor use only

Warranty
5 year limited warranty

Finish Type
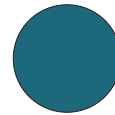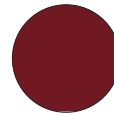
Classic

| Matte White MW | Matte Black MB | Matte Silver SLV |

Glossy Hue

| Pearl Opal Green PGR | Pearl Genetian Blue PBL | Pearl Ruby Red PBR |

Metallic

| Metallic Gold MGD |

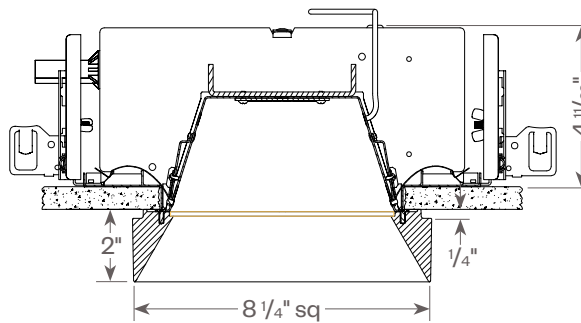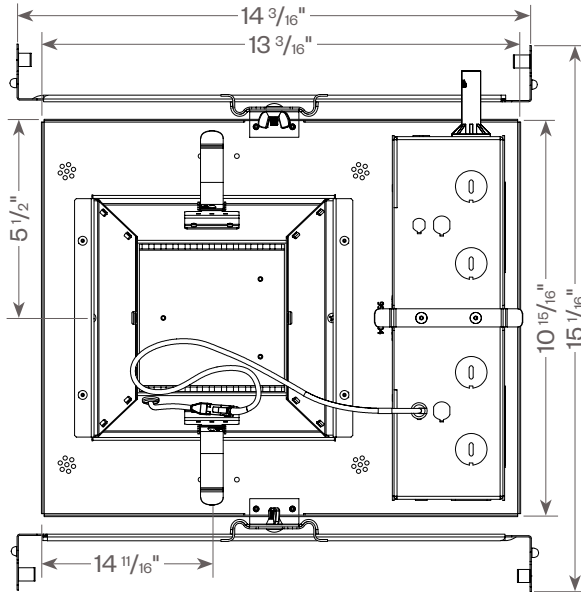### Wood Grain

| Wood Grain Ash WAS | Wood Grain Chestnut WCH | Wood Grain Walnut WWA | Wood Grain Ebony WEB |

Product Detail

14 ³/₁₆"
13 ³/₁₆"
5 ¹/₂"
10 ¹⁵/₁₆"
15 ¹/₁₆"
14 ¹¹/₁₆"

4 ¹¹/₃₂"
2"
¹/₄"
8 ¹/₄" sq

Ceiling Cutout: 6 ³/₄" ⁺⁰" ₋₁/₁₆" SQ.

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Fixture Data: *(Complete photometric data (.ies format) available upon request)*

Wattage	9	12	18	23	34
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+

LTL15195491.02
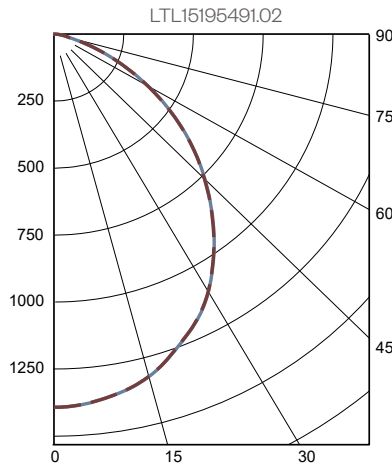
Zonal Lumen Summary

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			
RW	70	50	30	10
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
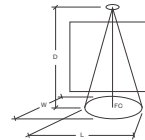
Notes and Definitions:
Beam spread is to 50% center beam candlepower (CBCP).
D=Distance to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet (50% of maximum footcandle level).
W=Effective Visual Beam width in feet (50% of maximum footcandle level).
CB=Distance across or down to center beam location.

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PROJECT: **TYPE:**

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

TRIAC Wiring Diagram

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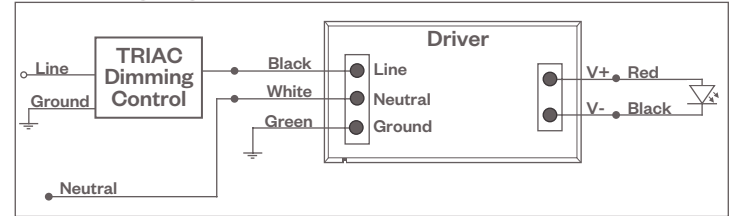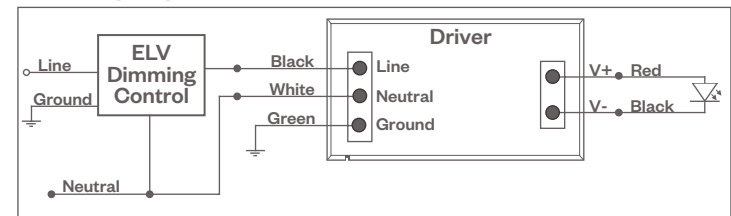

Compatible Dimmers†:

Wall Box (Incandescent Style, Wattage as required)	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.

ELV Wiring Diagram

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

Compatible Dimmers†:

| Wall Box (ELV Style)		Central System
Lutron "Diva"	Leviton "Surslide"	Lutron "GP" Panel with PHPM-PA Interface
Lutron "Nova-T"	Leviton "Vizio"	Lutron Grafik Eye QS with PHPM-PA Interface
Lutron "Maestro"		
Lutron "Skylark"		

0-10V Dimming

Integrates into a variety of building management and daylighting controls.

0-10V Wiring Diagram

Notes:
- 120VAC or 277VAC*
- Dims down to 1% light output
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
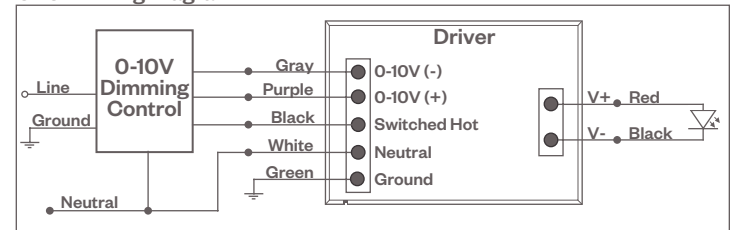
Compatible Dimmers†:

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

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

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

Lutron LDE1 Dimming

Integrates into Lutron EcoSystem building management controls.

Notes:
- 120VAC or 277VAC*
- Dims down to 1% Soft-On/Fade-to-Black
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
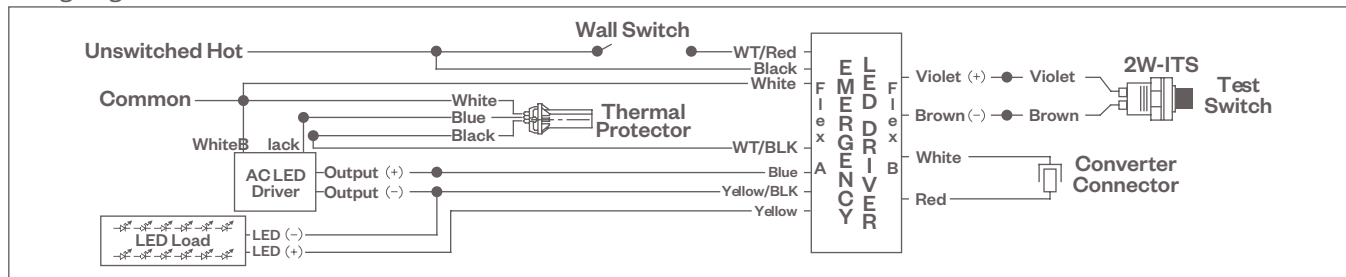
Compatible Dimmers†:

Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron "GP" Panel
Energi Savr Node	Lutron Grafik Eye QS
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

Lutron LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram
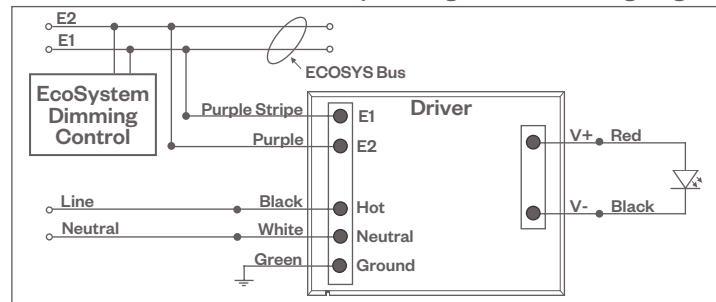
Emergency Dimming

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.