

# Cylindrix® III Mini Track Head



## Features

This powerful, compact member of our Cylindrix family enhances your design aesthetics. The new Cylindrix III Mini (C3M) is tiny, passively cooled, with an invisible heat sink and full dimming capacity. It delivers brilliant colors, crispest whites, and a patent pending, field changeable optical system.

## Product Overview

- Type: Track Accent & Display
- Wattage: 15, 18\*, 21, 28\*\*
- Color Temp: 2200K, 2700K, 3000K, 3500K, 4000K
- CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)  
90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)  
CrispWhite & 3K Class A LED's available
- Dimming: 15W-21W: TRIAC & ELV (120/277VAC) - 5% Dim  
28W: TRIAC & ELV (120VAC) - 5% Dim

\*VNSP only

\*\*Vertical mounting only

## PROJECT:

## TYPE:



## Fixture Summary (see following pages for more information)

### Performance Chart

Watts	Delivered Lumens	LPW	CBCP	Color Temp
15	1,508	100.5	9,415	3000K-83
18*	1,096	60.2	24,308	3000K-83
21	2,125	105	13,260	3000K-83
28	2,614	93.4	16,310	3000K-83

\*Note: 18W is VNSP only

Data is based on 3000K-83 120V IES files available on website.

15W, 21W & 28W data is based on Very Narrow Flood optics, 18W data is Very Narrow Spot optic only. See pg 5-6 for other beam spreads.

### Electrical Data

	15W		18W		21W		28W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	15	0.13	18	0.15	21	0.18	28	0.23
277V	15	0.05	18	0.06	21	0.08	28	0.10

Electronic constant current LED driver



# Cylindrix® III Mini

Track Head



## PROJECT:

## TYPE:

### Ordering Information



- |  |  |
|--|--|
| <p><b>1</b> <u>Model</u><br/> <b>C3MV</b> (vertical)<br/> <b>C3MH</b> (horizontal, not available for 28W)</p> <p><b>2</b> <u>Wattage</u><br/> <b>15</b><br/> <b>18</b> (VNSP beam spread only)<br/> <b>21</b><br/> <b>28</b> (Vertical mounting (C3MV) only)</p> <p><b>3</b> <u>Finish</u><br/> <b>WT</b> - white texture<br/> <b>BT</b> - black texture<br/> <b>ST</b> - silver texture<br/> <i>Other finishes, consult factory</i></p> <p><b>4</b> <u>Mounting</u><br/> <u>Vertical:</u><br/> <b>TN1</b> - Global GES 1cir/<br/>                   H-Style, 120V<br/> <b>TEK</b> - Global TEK 2cir/<br/>                   2neut, 120V<br/> <b>TN3</b> - Global XTS 3cir, 120V<br/> <b>TN2</b> - Global HTEK 2cir/<br/>                   2neut, 277V<br/> <b>CT</b> - J-Style, 1 or 2 cir, 120V<br/> <b>LOL</b> - L-Style 1cir, 120V<br/> <b>CPR</b> - Capri 1cir, 120V<br/> <b>B*</b> - busway, 120V or 277V<br/> <b>C</b> - canopy, 120V or 277V<br/> <b>CCL2-SCP</b> - C-clamp, black,<br/>                   with straight cord**, 6', 120V<br/> <b>CCL2-CCP</b> - C-clamp, black,<br/>                   with coil cord**, 5', 120V</p> <p><u>Horizontal:</u><br/> <b>TS1</b> - Global GES 1cir/<br/>                   H-Style, 120V<br/> <b>TEK</b> - Global TEK 2cir/<br/>                   2neut, 120V<br/> <b>TN3</b> - Global XTS 3cir,<br/>                   120V<br/> <b>TN2</b> - Global HTEK 2cir/<br/>                   2neut, 277V<br/> <b>TJ1</b> - J-Style 1cir, 120V<br/> <b>TL1</b> - L-Style 1cir, 120V<br/> <b>TP1</b> - Capri 1cir, 120V<br/> <b>B*</b> - busway 120V or<br/>                   277V</p> <p><b>Notes:</b> *Busway compact series B40,B60c only, consult factory for other busway adapters. Black busway adapter used for ST finish<br/>         **Black cord used for BT &amp; ST finish,<br/>         White cord used for WT finish</p> | <p><b>5</b> <u>Voltage</u><br/> <b>120</b><br/> <b>277</b></p> <p><b>6</b> <u>Beam Spreads</u><br/> <b>VNSP</b> - very narrow spot, 8° (18W only)<br/> <b>SP</b> - spot, 14°<br/> <b>VNF</b> - very narrow flood, 18°<br/> <b>NF</b> - narrow flood, 23°<br/> <b>FL</b> - flood, 34°<br/> <b>WF</b> - wide flood, 44°<br/> <b>LS</b> - linear spread lens, 60° x 10°</p> <p><b>7</b> <u>Color Temp</u><br/> <b>83 CRI:</b>                   <b>90+ CRI:</b><br/> <b>27</b> - 2700K-83   <b>229*</b> - 2200K-90+   <b>CRISP*</b> - CrispWhite<br/> <b>30</b> - 3000K-83   <b>279</b> - 2700K-90+   <b>3CLA</b> - 3K Class A<br/> <b>35</b> - 3500K-83   <b>309</b> - 3000K-90+<br/> <b>40</b> - 4000K-83   <b>359</b> - 3500K-90+<br/>                                   <b>409</b> - 4000K-90+<br/>         * Not available for use with 18W VNSP</p> <p><b>8</b> <u>Driver</u><br/> <b>15W-21W:</b><br/> <b>LE/TE</b> - TRIAC/ELV dimming, 120/277V<br/> <b>28W:</b><br/> <b>LE/TE</b> - TRIAC/ELV dimming, 120V only<br/> <b>ND</b> - non-dimming, 277V only</p> <p><b>9</b> <u>Options/Accessories</u><br/>         (standard front door accepts up to 2 accessories)<br/> <b>SN</b> - snoot, 1" length, matte black interior, exterior fi nish matches fi xture fi nish, accepts up to 2 accessories + cross blade)<br/> <b>HEX</b> - hexcell louver<br/> <b>SOL</b> - solite beam softening lens<br/> <b>CB</b> - cross blade, matte black finish (requires snoot)</p> |
|--|--|

# Cylindrix® III Mini

Track Head



## PROJECT:

## TYPE:

### Specifications

#### Application

Retail and Commercial accent and display lighting

#### Construction

Extruded aluminum driver housing  
Die-cast aluminum fixture head, front door, heat sink and driver housing end plates.  
No exposed wiring

#### Optical

0-90° tilt, 360° rotation  
Beam spreads: Very Narrow Spot, 8° (18w only); Spot, 14°  
Very Narrow Flood, 18°; Narrow Flood, 23°; Flood, 34°  
Wide Flood, 44°; Linear Spread, 60° x 10°

#### LED

**Color Temp Options:**  
2200K, 2700K, 3000K, 3500K, 4000K  
**CRI:** 83 typ. (2700K, 3000K, 3500K, 4000K)  
90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)  
CrispWhite\* and Class A\*\* LEDs available  
**R9 Values:** 11 (83 CRI), 55 (90+ CRI)  
**Binning:** 3-step MacAdam ellipse (SDCM)  
**Life:** 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

*\*CrispWhite: CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color similar to CMH sources. It creates impactful lighting by revealing the richest whites and vibrant colors that pop.*

*\*\*Class A LED: Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.*

#### Electrical

**Wattage:** 15, 18, 21, 28  
Electronic constant current LED driver, 120/277VAC input  
**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.**

#### Driver

LE/TE - Leading Edge (Triac, Forward Phase) or Trailing Edge (ELV, Reverse Phase) autosensing driver dims down to 5% on most dimming systems.  
*See dimming pages for more information.*

#### Finish

Powder coat paint.  
**Standard colors:** White Texture, Black Texture, Silver Texture  
Consult factory for custom RAL powder coat finishes

#### Mounting (options below depending on driver configuration)

Track, canopy, c-clamp and busway.  
See ordering information for all available options.  
**Note: Recommend track fixture mounting to horizontal surface mounted/pendant mounted track only**

#### Certifications

Approved to UL standards as tested by CSA.  
Intended for indoor use only.

#### Warranty

5 year limited warranty

# Cylindrix® III Mini

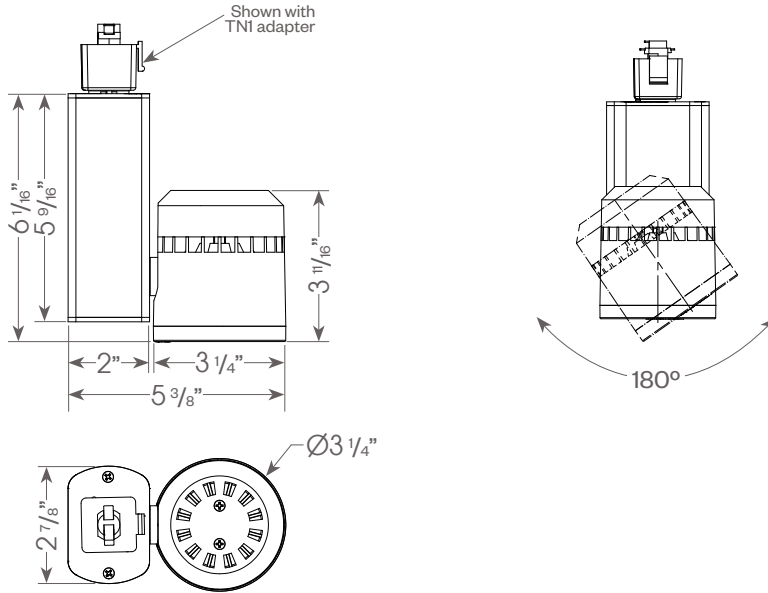
Track Head



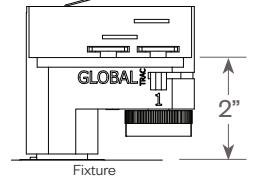
**PROJECT:**

**TYPE:**

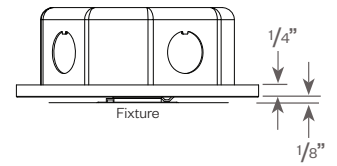
## Vertical



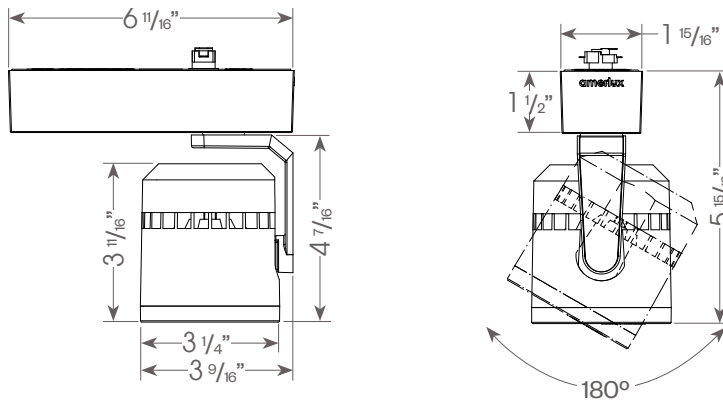
TEK/TN3/TN2



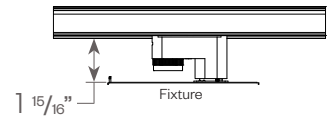
Canopy



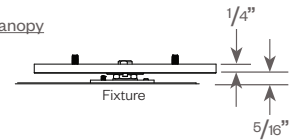
## Horizontal



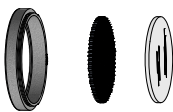
TEK/TN2/TN3



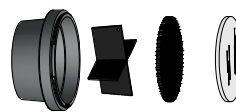
Canopy



## Accessories (diagrams show installation order)



Front door/Accessory holder, hexcell, solite lens



Snoot accessory holder, cross blade, hexcell, solite lens

# Cylindrix® III Mini

Track Head



**PROJECT:**

**TYPE:**

**FIXTURE DATA:** (Complete photometric data (.ies format) available upon request)

**MULTIPLYING FACTORS:** (Multiplying Factor is based on 3000K-83 120V IES file on website)

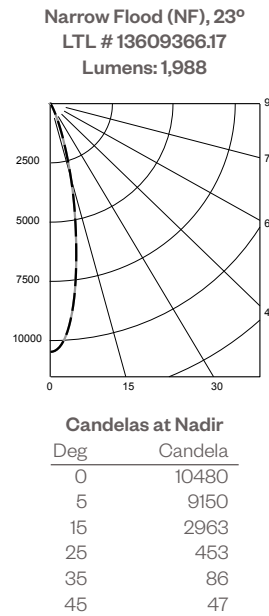
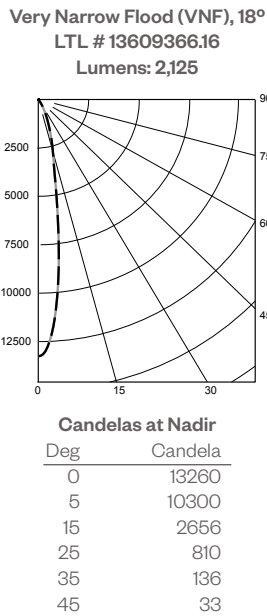
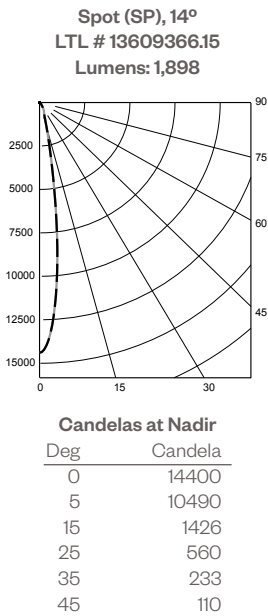
Wattage:	15W	21W	28W
Factor:	0.71	1.0	1.23

**Note: For 18W (VNFP only) data see pg 6**

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.66	0.83	0.86	0.90	0.93	0.65	0.70

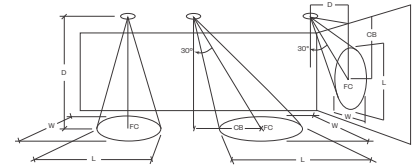
**21W LED, 3000K-83**



**Note: For FL & WF data see pg 6**

**APPLICATION DATA:**

**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.



	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles				30° Aiming Angle Vertical Footcandles				60° Aiming Angle Vertical Footcandles						
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
SPOT	5.0'	575	1.2	1.2	5.0'	371	1.6	1.4	3.0	3.0'	216	2.8	1.4	5.0	3.0'	779	1.3	1.1	2.0
	7.5'	256	1.9	1.9	7.5'	166	2.5	2.2	4.0	4.0'	130	3.5	1.8	6.0	4.0'	555	1.5	1.2	2.0
	10.0'	144	2.7	2.7	10.0'	92	3.4	3.0	6.0	5.0'	82	4.3	2.5	8.0	5.0'	361	1.8	1.4	3.0
	12.5'	93	3.2	3.2	12.5'	61	4.1	3.6	7.0	6.0'	58	5.2	2.9	9.0	6.0'	247	2.2	1.6	3.0
VERY NARROW FLOOD	5.0'	531	1.4	1.4	5.0'	342	1.9	1.5	3.0	3.0'	200	3.4	1.6	5.0	3.0'	745	1.5	1.2	2.0
	7.5'	236	2.2	2.2	7.5'	155	2.9	2.6	4.0	4.0'	124	4.1	2.1	6.0	4.0'	529	1.7	1.3	2.0
	10.0'	133	3.0	3.0	10.0'	85	3.9	3.4	6.0	5.0'	77	5.2	2.9	7.0	5.0'	333	2.1	1.6	3.0
	12.5'	85	3.6	3.6	12.5'	57	4.7	4.1	7.0	6.0'	56	6.2	3.2	9.0	6.0'	235	2.4	1.9	3.0
NARROW FLOOD	5.0'	420	1.8	1.8	5.0'	271	2.5	2.2	3.0	3.0'	193	3.2	1.8	4.0	3.0'	628	1.9	1.3	2.0
	7.5'	187	2.9	2.9	7.5'	126	3.5	3.2	4.0	4.0'	105	4.5	2.8	6.0	4.0'	443	1.9	1.6	2.0
	10.0'	105	3.7	3.7	10.0'	71	4.8	4.2	5.0	5.0'	70	5.4	3.3	7.0	5.0'	265	2.6	2.2	3.0
	12.5'	67	4.7	4.7	12.5'	45	6.0	5.4	7.0	6.0'	49	6.6	3.9	8.0	6.0'	197	2.9	2.6	3.0

# Cylindrix® III Mini

Track Head



**PROJECT:**

**TYPE:**

**FIXTURE DATA:** (Complete photometric data (.ies format) available upon request)

**MULTIPLYING FACTORS:** (Multiplying Factor is based on 3000K-83 120V IES file on website)

Wattage:	15W	21W	28W
Factor:	0.71	1.0	1.23

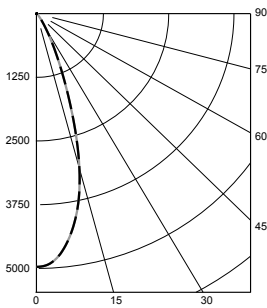
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP*	3CLA
Factor:	0.66	0.83	0.86	0.90	0.93	0.65	0.70

\* Not available for use with 18W

### 21W LED, 3000K-83

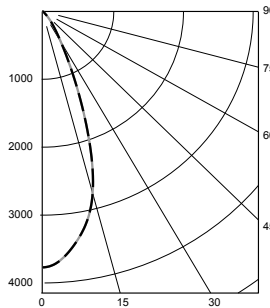
**Flood (FL), 34°**  
LTL # 13609366.18  
Lumens: 1,960



**Candelas at Nadir**

Deg	Candela
0	4970
5	4780
15	3130
25	913
35	193
45	55

**Wide Flood (WF), 44°**  
LTL # 13609366.19  
Lumens: 1,930



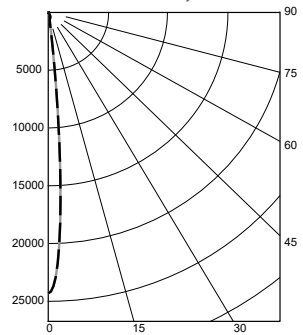
**Candelas at Nadir**

Deg	Candela
0	3771
5	3624
15	2758
25	1034
35	308
45	101

Note: For SP, VNF, NF data see pg 5

### 18W LED, 3000K (VNSP only)

**Very Narrow Spot (VNSP), 8°**  
LTL #1170140  
Lumens: 1,096



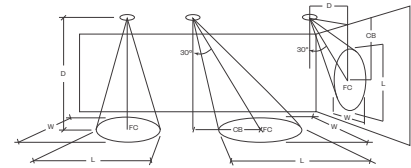
**Candelas at Nadir**

Deg	Candela
0	24308
5	8980
15	527
25	394
35	131
45	57

### APPLICATION DATA:

#### 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.



	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles				
	D	FC	L	W	D	FC	L	W	OB	D	FC	L	W	OB	D	FC	L	W	OB
FLOOD	5.0'	199	3.0	3.0	5.0'	141	3.5	3.1	2.0	3.0'	124	3.3	2.7	3.0	3.0'	372	2.2	1.8	1.0
	7.5'	89	4.4	4.4	7.5'	63	5.2	4.8	3.0	4.0'	70	4.5	3.4	4.0	4.0'	221	2.9	2.7	2.0
	10.0'	50	5.8	5.8	10.0'	36	6.9	6.4	4.0	5.0'	45	5.6	4.4	5.0	5.0'	143	3.5	3.1	2.0
	12.5'	32	7.3	7.3	12.5'	23	8.6	8.0	6.0	6.0'	32	6.8	5.2	7.0	6.0'	98	4.2	3.9	3.0
WIDE FLOOD	5.0'	151	3.2	3.2	5.0'	110	3.8	3.5	2.0	3.0'	109	3.2	2.7	3.0	3.0'	303	2.3	2.0	1.0
	7.5'	67	5.0	5.0	7.5'	49	5.6	5.4	3.0	4.0'	62	4.2	3.6	4.0	4.0'	167	3.1	3.0	2.0
	10.0'	38	6.6	6.6	10.0'	28	7.5	7.3	4.0	5.0'	40	5.3	4.6	5.0	5.0'	111	3.8	3.5	2.0
	12.5'	25	8.3	8.3	12.5'	18	9.5	9.1	5.0	6.0'	28	6.5	5.5	6.0	6.0'	76	4.6	4.5	2.0
18W only VERY NARROW SPOT	5.0'	967	1.0	1.0	5.0'	624	1.0	1.0	3.0	3.0'	360	1.5	1.0	5.0	3.0'	983	1.0	1.0	2.0
	7.5'	431	1.1	1.1	7.5'	251	1.8	1.1	4.0	4.0'	185	2.4	1.1	7.0	4.0'	729	1.1	1.0	2.0
	10.0'	243	1.3	1.3	10.0'	153	2.1	1.6	6.0	5.0'	129	2.7	1.2	8.0	5.0'	600	1.1	1.0	3.0
	12.5'	156	1.8	1.8	12.5'	102	2.4	2.2	7.0	6.0'	90	3.3	1.6	10.0	6.0'	325	1.9	1.0	3.0

# Cylindrix® III Mini

Track Head



## PROJECT:

## TYPE:

### DIMMING COMPATIBILITY:

Amerlux® Cylindrix® 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.

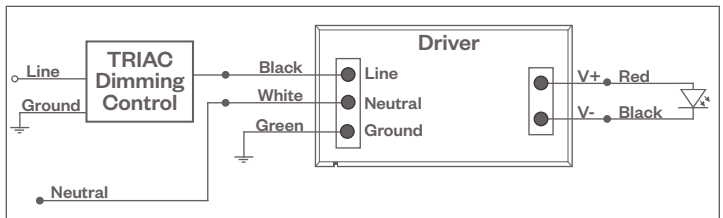
#### Notes:

- 15W-21W 120VAC or 277VAC\*/28W 120VAC only
- 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

#### Compatible Dimmers†:

Wall Box (TRIAC 120VAC)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

TRIAC Wiring Diagram



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

Utilizes specialized "ELV" dimmers.

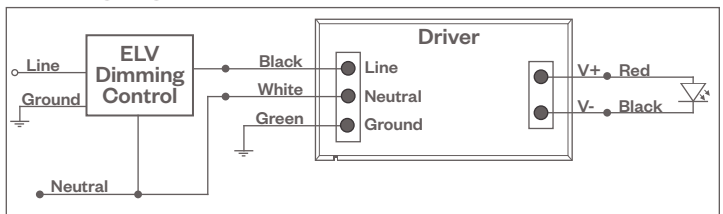
#### Notes:

- 15W-21W 120VAC or 277VAC\*/28W 120VAC only
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements

#### 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"		

ELV 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 manufacturer 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.