

Cylindrix® III Mini

Track Head



PROJECT:

TYPE:

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: 15W, 18W*, 21W, 28W**
 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 LEDs available
 Dimming: 15W-21W: TRIAC & ELV, 5% Dim, 120/277VAC
 28W: TRIAC & ELV, 5% Dim, 120VAC



* VNSP only
 ** Vertical mounting only

Certifications



Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
15	1508	100.5	9,415	3000K-83
18*	1096	60.2	24,308	3000K-83
21	2125	105	13,206	3000K-83
28	2614	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

Voltage	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

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

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 that is pleasing to the eye. It creates the most impactful lighting ever available, 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: 15W, 18W, 21W, 28W

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 and c-clamp.

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

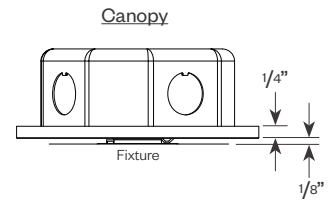
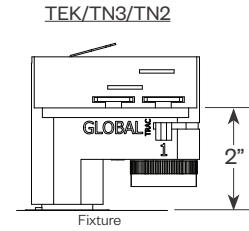
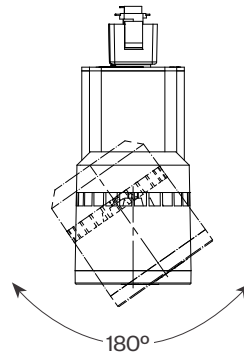
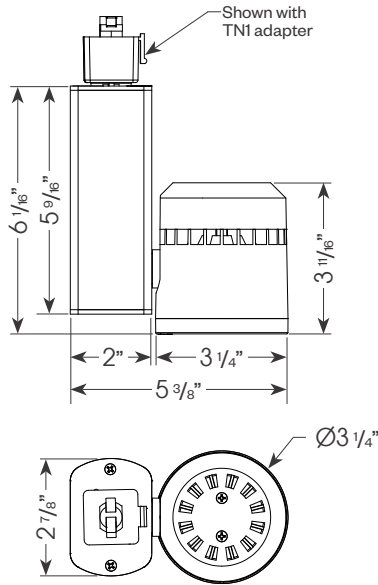


PROJECT:

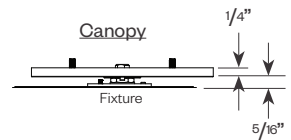
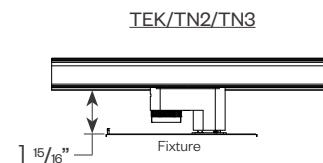
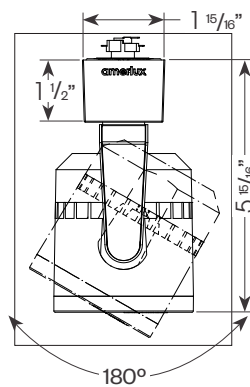
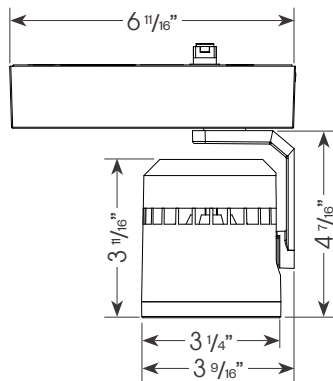
TYPE:

Product Details

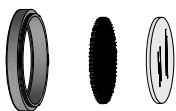
Vertical



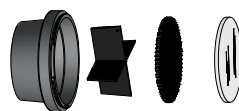
Horizontal



Accessories



Front door/Accessory holder, hexcell, solite lens



Snoot accessory holder, cross blade, hexcell, solite lens

Cylindrix® III Mini

Track Head



PROJECT:

TYPE:

Performance Data

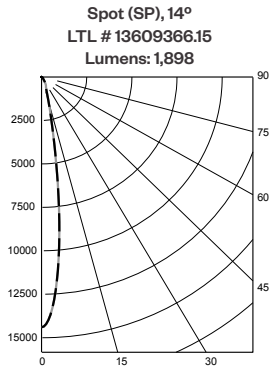
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

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

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

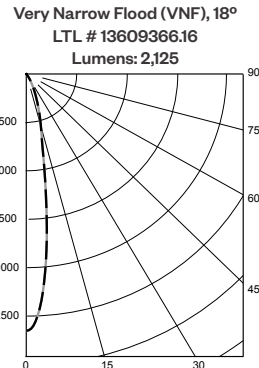
CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.66	0.83	0.86	0.90	0.93	0.65	0.70

21W LED, 3000K-83



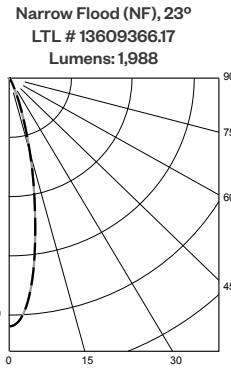
Candelas at Nadir

Deg	Candela
0	14400
5	10490
15	1426
25	560
35	233
45	110



Candelas at Nadir

Deg	Candela
0	13260
5	10300
15	2656
25	810
35	136
45	33



Candelas at Nadir

Deg	Candela
0	10480
5	9150
15	2963
25	453
35	86
45	47

Note: For FL & WF data see pg 6

Application Data

Notes and Definitions:

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

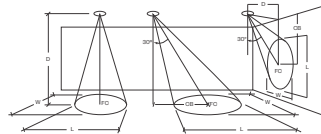
D=Distance to floor or wall.

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:

Performance Data (continued)

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

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

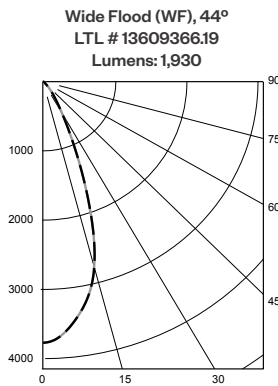
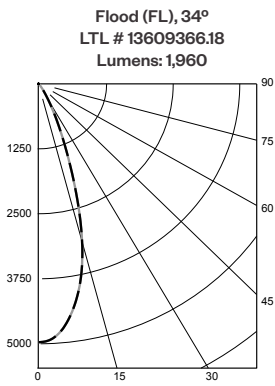
Wattage:	15W	21W	28W
Factor:	0.71	1.0	1.23

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

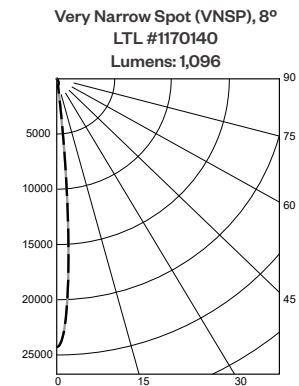
* Not available for use with 18W

21W LED, 3000K-83

18W LED, 3000K (VNSP only)



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



Candelas at Nadir

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

Candelas at Nadir

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

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).

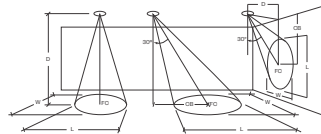
D=Distance to floor or wall.

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	CB	D	FC	L	W	CB	D	FC	L	W	CB
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 ---

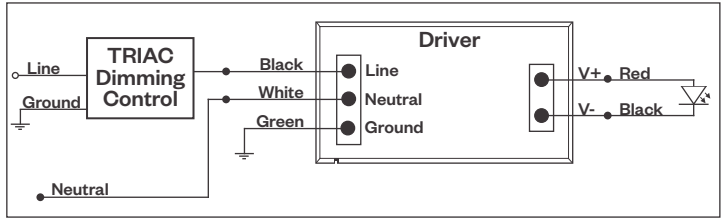
TRIAC (Forward Phase) Dimming

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"	

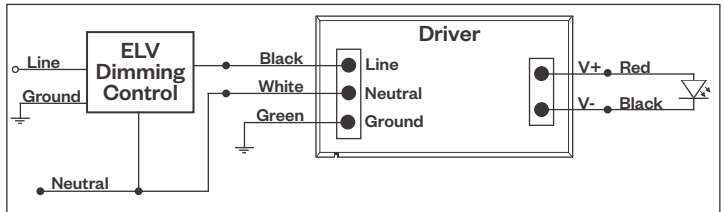
ELV - Electronic Low Voltage (Reverse Phase) Dimming

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.