

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)
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

	15W		18W		21W		28W	
Voltage	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.

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Ordering Information

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



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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)
3K 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
* 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

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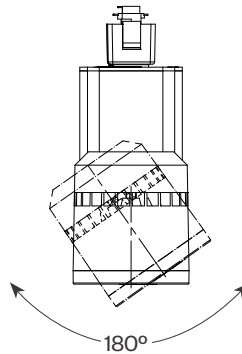
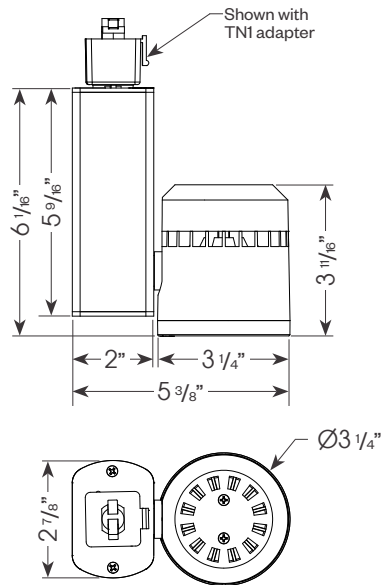


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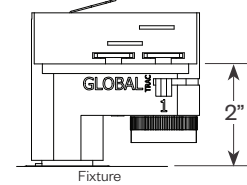
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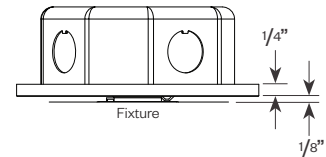
Vertical



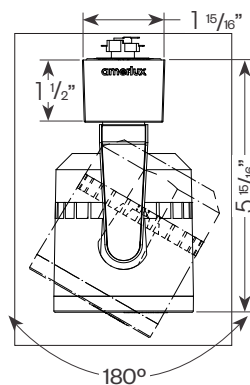
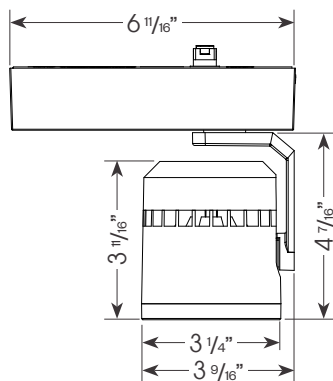
TEK/TN3/TN2



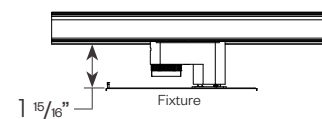
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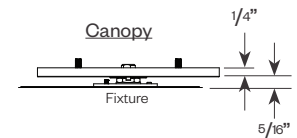
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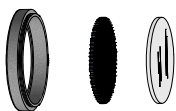
TEK/TN2/TN3



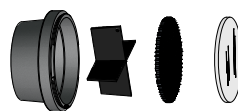
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Accessories



Front door/Accessory holder, hexcell, solite lens



Snoot accessory holder, cross blade, hexcell, solite lens

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Performance Data

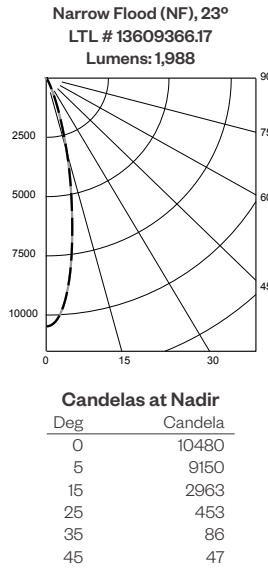
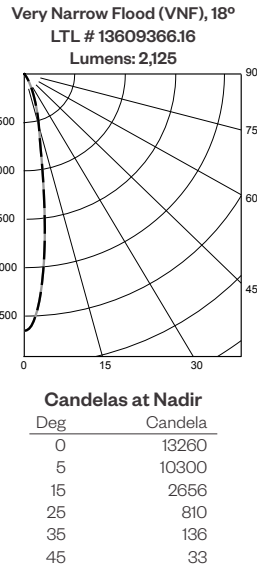
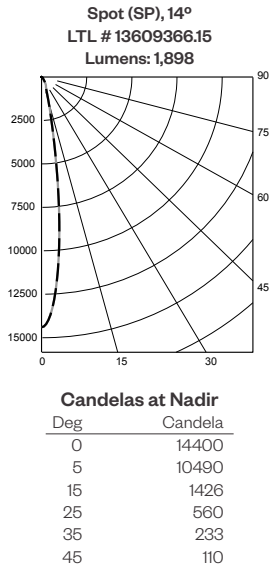
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

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+	3CLA
Factor:	0.66	0.83	0.86	0.90	0.93	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).

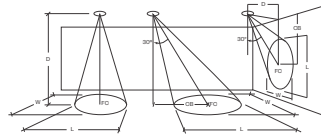
D=Distance to floor or wall.

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



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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

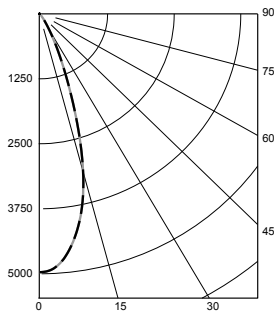
Wattage:	15W	21W	28W
Factor:	0.71	1.0	1.23

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

* Not available for use with 18W VNSP

21W LED, 3000K-83

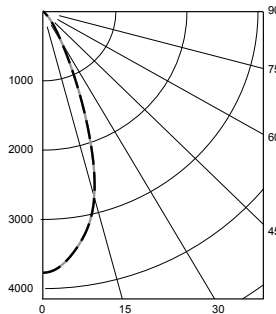
Flood (FL), 34°
LTL # 13609366.18
Lumens: 1,960



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



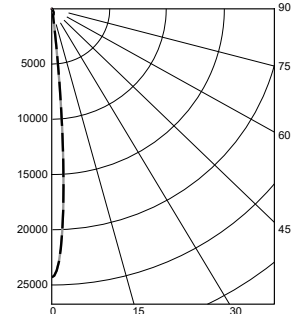
Candelas at Nadir

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).

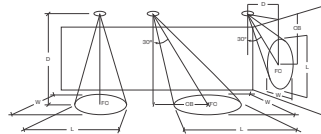
D=Distance to floor or wall.

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	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	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	161	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
18W only VERY NARROW SPOT	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
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	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



Delta Intelligent Building Technologies

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Amerlux reserves the right to change details that do not affect overall function and performance.
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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 ---

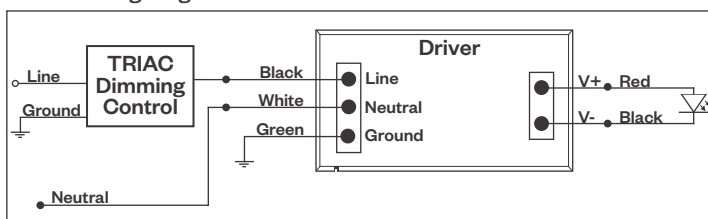
TRIAC (Forward Phase) Dimming

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"	

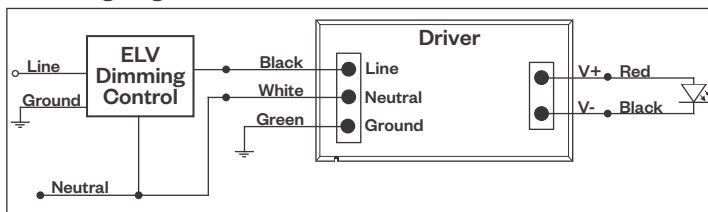
ELV - Electronic Low Voltage (Reverse Phase) Dimming

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.