

Cylindrix® III

Track Head



PROJECT:

TYPE:

Features

Cylindrix® III LED, an excellent combination of optical and thermal performance, aesthetics and visual comfort in an accent. Features a deeply recessed single light source for enhanced visual comfort and control, integrated heat sink and high performance interchangeable reflector optics (for 15°/25°/40° beam spreads only). A 10° beam spread is also available but not interchangeable with the other beam options. Cylindrix® III LED accepts a broad range of lighting control accessories, including snouts, cross blades and louvers.

Product Overview

Type: Track Accent & Display
Wattage: 16W, 19W, 23W, 27W, 31W
Color Temp: 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. or 90+ typ.
3K Class A LEDs available
Dimming: 16W-19W: TRIAC & ELV, 5% Dim, 120/277VAC
23W-31W: TRIAC & ELV 5% Dim, 120VAC

International version available, see website for spec sheet.



C3TV



C3TH

Certifications



Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
16	1700	106.3	6,921	3000K-83
19	2018	119.3	8,332	3000K-83
23	2440	106.1	9,934	3000K-83
27	2880	106.7	11,726	3000K-83
31	3306	100.4	13,460	3000K-83

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

Data is based on Flood Optic. See pg 5 for other beam spreads.

Electrical Data

	16W		19W		23W		27W		31W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	16	0.13	19	0.16	23	0.19	27	0.23	31	0.26
277V	16	0.06	19	0.07	23	0.08	27	0.10	31	0.11

Electronic constant current LED driver.

PROJECT:

TYPE:

Ordering Information

1	2	3	4	5	6	7	8	9
1	Model	2	Wattage	3	Finish			
	C3TV (vertical)	16			WT white texture			
	C3TH (horizontal)	19			BT black texture			
		23			ST silver texture			
		27			Other finishes, consult factory			
		31						
4	Mounting			5	Voltage	6	Beam Spread	
	<u>Vertical</u>		<u>Horizontal</u>		120		NSP narrow spot, 10° (based on availability, lead times may vary, consult factory)	
	TN1 Global GES 1cir/H-Style, 120V		TS1 Global GES 1cir/H-Style, 120V		277		SP spot, 15°	
	TEK Global TEK 2cir/2neut, 120V		TEK Global TEK 2cir/2neut, 120V				FL flood, 25°	
	TN3 Global XTS 3cir, 120V		TN3 Global XTS 3cir, 120V				WF wide flood, 40°	
	TN2 Global HTEK 2cir/2neut, 277V		TN2 Global HTEK 2cir/2neut, 277V				LS linear spread lens, 60° x 10°	
	CT J-Style 1 or 2 cir, 120V		TJ1 J-Style 1cir, 120V					
	LOL L-Style 1cir, 120V		TL1 L-Style 1cir, 120V					
	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			16W-19W		(standard front door accepts 1 accessories)	
	27 2700K-83	279 2700K-90+	3CLA* 3K Class A		LE/TE TRIAC/ELV dimming, 120/277V		SN34 snoot 3/4" length, exterior finish matches fixture finish; accepts up to 2 accessories	
	30 3000K-83	309 3000K-90+			23W-31W		SN15 snoot 1-1/2" length, exterior finish matches fixture finish; accepts up to 2 accessories	
	35 3500K-83	359 3500K-90+			LE/TE TRIAC/ELV dimming, 120V only		HEX hexcell louver	
	40 4000K-83	409 4000K-90+			ND non-dimming, 277V only		CL clear glass lens	
	* Not available for use with NSP beam spread						SOL solite beam softening lens	
							CB cross blade, matte black finish (requires snoot)	

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: Narrow Spot, 10°; Spot, 15°; Flood, 25°;
Wide Flood, 40°; Linear Spread, 60° x 10°

LED

Color Temp Options: 2700K, 3000K, 3500K, 4000K, Class A
CRI: 83 typ. or 90+ typ.
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: 16W, 19W, 23W, 27W, 31W
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

Track Head

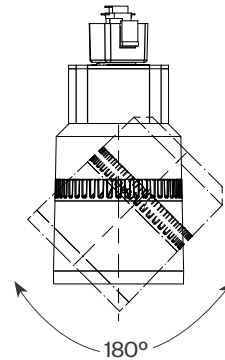
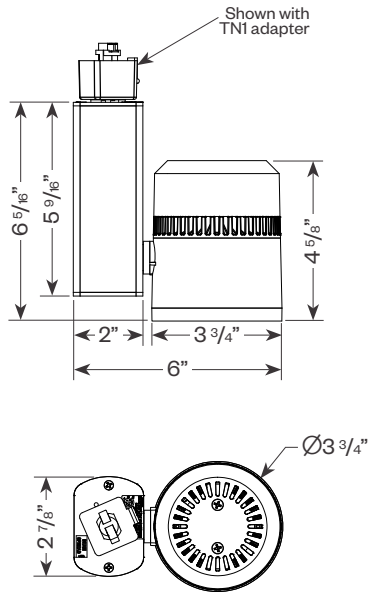


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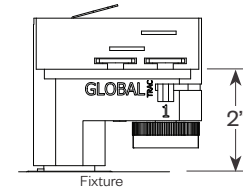
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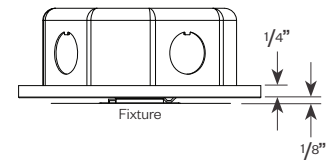
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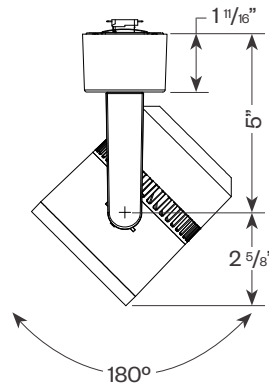
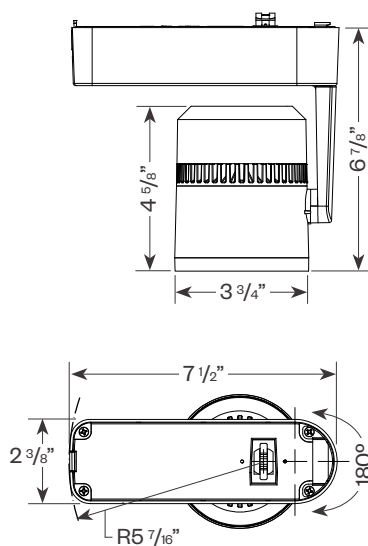
TEK/TN3/TN2



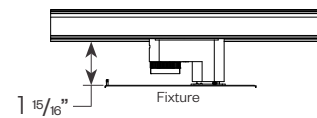
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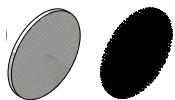
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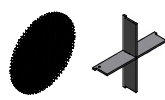
TEK/TN2/TN3



Accessories



Solite lens, Hexcell louver (fits in front door)



Hexcell louver, Cross blade (requires snoot)



Snoot, 3/4" deep



Snoot, 1 1/2" deep

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Performance Data

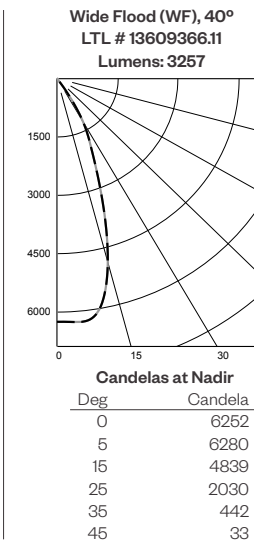
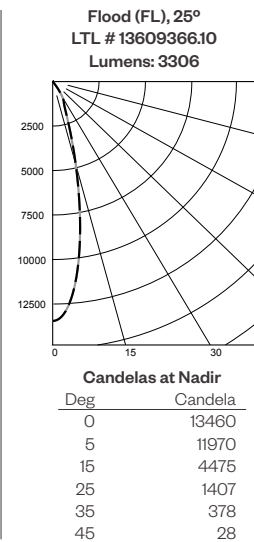
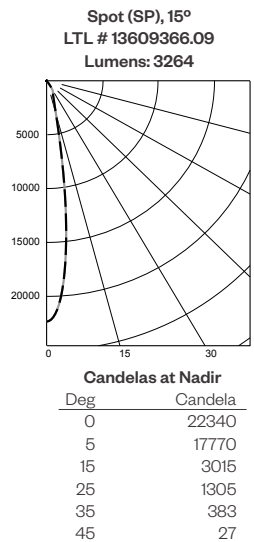
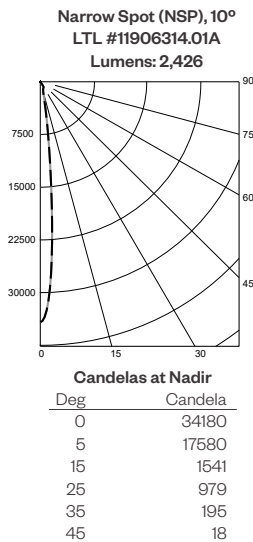
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

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

Wattage:	16W	19W	23W	27W	31W
Factor:	0.51	0.61	0.74	0.87	1.0

OCT:	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA
Factor:	0.83	0.86	0.90	0.93	0.70

31W LED, 3000K-83



Application Data

Notes and Definitions:

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

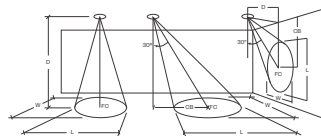
D=Distance to floor or wall.

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
NARROW SPOT	5.0'	1367	1.1	1.1	5.0'	839	1.3	1.1	3.0	3.0'	508	2.0	1.1	5.0	3.0'	1553	1.1	1.0	2.0
	7.5'	608	1.3	1.3	7.5'	384	1.9	1.4	4.0	4.0'	261	2.9	1.4	7.0	4.0'	1131	1.2	1.1	2.0
	10.0'	342	1.7	1.7	10.0'	211	2.5	2.1	6.0	5.0'	186	3.3	1.6	8.0	5.0'	846	1.2	1.1	3.0
	12.5'	219	2.3	2.3	12.5'	143	3.0	2.7	7.0	6.0'	128	4.0	2.1	10.0	6.0'	503	2.0	1.3	3.0
SPOT	5.0'	894	1.3	1.3	5.0'	559	2.1	1.5	3.0	3.0'	338	3.1	1.5	5.0	3.0'	1275	1.4	1.1	2.0
	7.5'	398	2.2	2.2	7.5'	265	2.8	2.5	4.0	4.0'	212	3.8	2.0	6.0	4.0'	903	1.6	1.2	2.0
	10.0'	224	2.9	2.9	10.0'	145	3.9	3.3	5.0	5.0'	132	4.8	2.7	7.0	5.0'	561	2.1	1.5	3.0
	12.5'	144	3.6	3.6	12.5'	95	4.7	4.2	7.0	6.0'	95	5.6	3.1	9.0	6.0'	402	2.3	1.8	3.0
FLOOD	5.0'	539	2.0	2.0	5.0'	338	2.8	2.5	3.0	3.0'	259	3.5	2.0	4.0	3.0'	814	2.1	1.4	2.0
	7.5'	240	3.1	3.1	7.5'	162	3.8	3.5	4.0	4.0'	143	4.6	2.9	5.0	4.0'	573	2.1	1.7	2.0
	10.0'	135	4.0	4.0	10.0'	92	5.1	4.5	5.0	5.0'	92	5.7	3.5	7.0	5.0'	340	2.8	2.5	3.0
	12.5'	87	5.1	5.1	12.5'	58	6.5	5.7	6.0	6.0'	65	7.0	4.2	8.0	6.0'	255	3.1	2.8	3.0
WIDE FLOOD	5.0'	284	3.3	3.3	5.0'	222	3.6	3.2	2.0	3.0'	191	3.2	2.7	3.0	3.0'	550	2.3	1.8	1.0
	7.5'	121	5.0	5.0	7.5'	95	5.4	5.1	3.0	4.0'	108	4.2	3.6	4.0	4.0'	283	3.3	3.1	2.0
	10.0'	67	6.6	6.6	10.0'	53	7.4	6.8	4.0	5.0'	69	5.5	4.6	5.0	5.0'	201	3.8	3.4	2.0
	12.5'	43	8.3	8.3	12.5'	34	9.2	8.6	5.0	6.0'	48	6.5	5.4	6.0	6.0'	138	4.6	4.3	2.0

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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

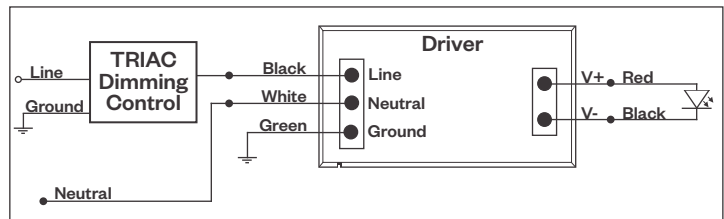
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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

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

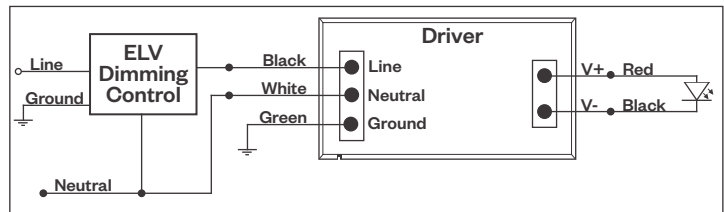
Utilizes specialized "ELV" dimmers.

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

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 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.

