

Cylindrix® III

Track Head



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 snoots, cross blades and louvers.

Product Overview

Type:	Track Accent & Display
Wattage:	16, 19, 23, 27, 31
Lumen Output:	3306 lm (FL); 100.4 lm/W (FL)
CBCP:	13,460 (FL)
Color Temp:	2700K, 3000K, 3500K, 4000K
ORI:	83 typ. or 90+ typ. CrispWhite & Class A LED's available
Dimming:	16W-19W: TRIAC & ELV (120/277VAC) - 5% Dim 23W-31W: TRIAC & ELV (120VAC) - 5% Dim

**International version available, see website for spec sheet.*

PROJECT:

TYPE:



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

Performance Chart

Watts	Delivered Lumens	LPW	CBCP	Color Temp
16	1,700	106.3	6,921	3000K-83
19	2,018	119.3	8,332	3000K-83
23	2,440	106.1	9,934	3000K-83
27	2,880	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	
	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	16	0.13	19	0.16	23	0.19
277V	16	0.06	19	0.07	23	0.08

	27W		31W	
	System Watts	Amps	System Watts	Amps
120V	27	0.23	31	0.26
277V	27	0.10	31	0.11

Electronic constant current LED driver



PROJECT:

TYPE:

Ordering Information



1 Model
C3TV (vertical)
C3TH (horizontal)

2 Wattage
16
19
23
27
31

3 Finish
WT - white texture
BT - black texture
ST - silver texture
Other finishes, consult factory

4 Mounting

<p><u>Vertical:</u></p> <p>TN1 - Global GES 1cir/ H-Style, 120V</p> <p>TEK - Global TEK 2cir/ 2neut, 120V</p> <p>TN3 - Global XTS 3cir, 120V</p> <p>TN2 - Global HTEK 2cir/ 2neut, 277V</p> <p>CT - J-Style, 1 or 2 cir, 120V</p> <p>LOL - L-Style 1cir, 120V</p> <p>CPR - Capri 1cir, 120V</p> <p>B* - busway, 120V or 277V</p> <p>C - canopy, 120V or 277V</p> <p>CCL2-SCP - C-clamp, black, with straight cord**, 6', 120V</p> <p>CCL2-CCP - C-clamp, black, with coil cord**, 5', 120V</p> <p>Notes: *Busway compact series B40,B60c only, consult factory for other busway adapters. Black busway adapter used for ST finish</p> <p>**Black cord used for BT & ST finish, White cord used for WT finish</p>	<p><u>Horizontal:</u></p> <p>TS1 - Global GES 1cir/ H-Style, 120V</p> <p>TEK - Global TEK 2cir/ 2neut, 120V</p> <p>TN3 - Global XTS 3cir, 120V</p> <p>TN2 - Global HTEK 2cir/ 2neut, 277V</p> <p>TJ1 - J-Style 1cir, 120V</p> <p>TL1 - L-Style 1cir, 120V</p> <p>TP1 - Capri 1cir, 120V</p> <p>B* - busway, 120V or 277V</p>
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5 Voltage
120
277

6 Beam Spreads
NSP - narrow spot, 10° (based on availability, lead times may vary, consult factory)
SP - spot, 15°
FL - flood, 25°
WF - wide flood, 40°
LS - linear spread, 60° x 10°

7 Color Temp

83 CRI:	90+ CRI:
27 - 2700K-83	279 - 2700K-90+ CRISP+ - CrispWhite
30 - 3000K-83	309 - 3000K-90+ 3CLA+ - 3K Class A
35 - 3500K-83	359 - 3500K-90+
40 - 4000K-83	409 - 4000K-90+

† Not available with NSP beam spread

8 Driver

16W-19W:
LE/TE - TRIAC/ELV dimming, 120/277V

23W-31W:
LE/TE - TRIAC/ELV dimming, 120V only
ND - non-dimming, 277V only

9 Options/Accessories
 (standard front door accepts 1 accessory)
SN34 - snoot 3/4" length, exterior finish matches fixture finish; accepts up to 2 accessories
SN15 - snoot 1-1/2" length, exterior finish matches fixture finish; accepts up to 2 accessories
HEX - hexcell louver
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, CRISP, Class A
CRI: 83 typ. or 90+ typ.
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: 16, 19, 23, 27, 31
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

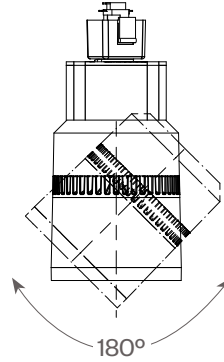
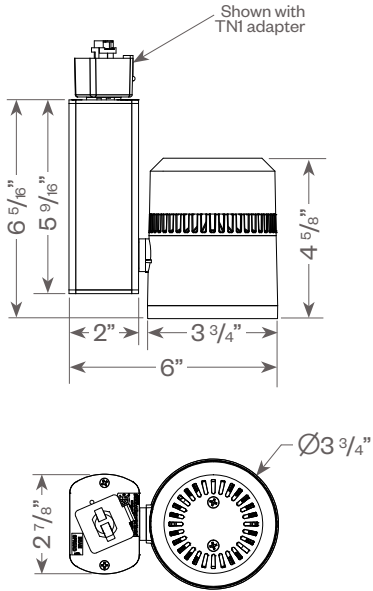
Track Head



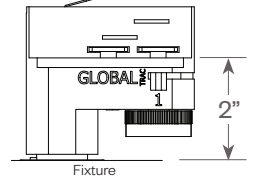
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TYPE:

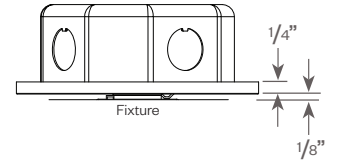
Vertical



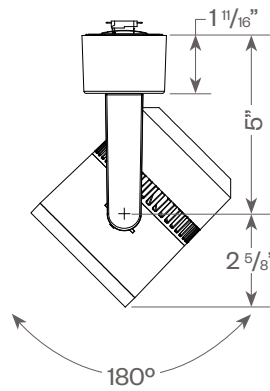
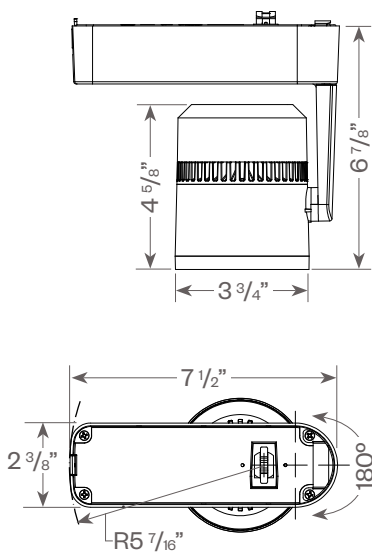
TEK/TN3/TN2



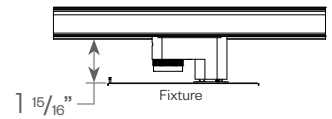
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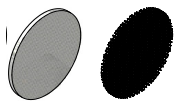
Horizontal



TEK/TN2/TN3



Accessories



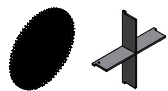
Solite lens, Hexcell louver (fits in front door)



Snoot, 3/4" deep



Snoot, 1 1/2" deep



Hexcell louver, Cross blade (requires snoot)

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)

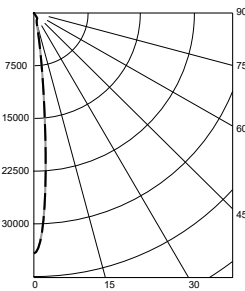
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

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

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

31W LED, 3000K-83

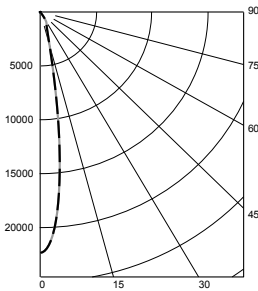
Narrow Spot (NSP), 10°
LTL #11906314.01A
Lumens: 2,426



Candelas at Nadir

Deg	Candela
0	34180
5	17580
15	1541
25	979
35	195
45	18

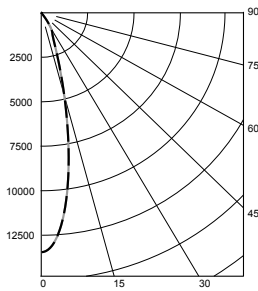
Spot (SP), 15°
LTL # 13609366.09
Lumens: 3264



Candelas at Nadir

Deg	Candela
0	22340
5	17770
15	3015
25	1305
35	383
45	27

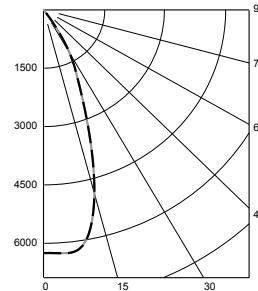
Flood (FL), 25°
LTL # 13609366.10
Lumens: 3306



Candelas at Nadir

Deg	Candela
0	13460
5	11970
15	4475
25	1407
35	378
45	28

Wide Flood (WF), 40°
LTL # 13609366.11
Lumens: 3257

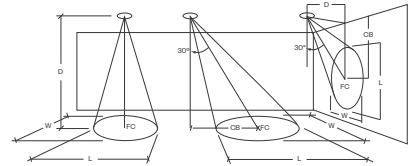


Candelas at Nadir

Deg	Candela
0	6252
5	6280
15	4839
25	2030
35	442
45	33

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'	269	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

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 ---

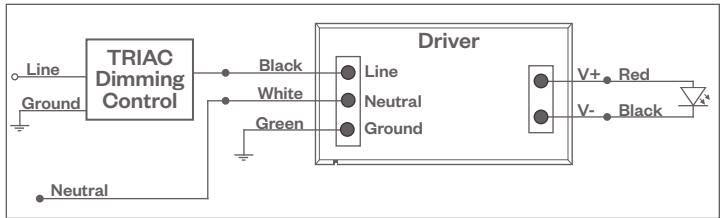
TRIAC (Forward Phase) DIMMING (Standard)

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

Notes:

- 16W-19W - 120/277VAC; 23W-31W - 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

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"	

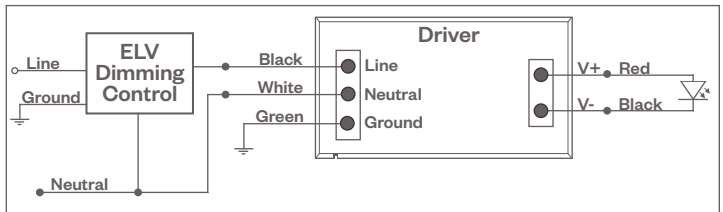
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

Utilizes specialized "ELV" dimmers.

Notes:

- 16W-19W - 120/277VAC; 23W-31W - 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

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 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.