

Cylindrix® IV

Track Head



PROJECT:

TYPE:

Features

Cylindrix® IV track head, with an passive cooling 46W or 51W LED optic, producing about 4600 delivered lumens. An excellent replacement for 70W metal halide fixtures, the C4TV offers a lower wattage optic with various beam distributions, color temperatures and other accessory options, making it ideal for higher mounting heights and for punching through ambient light levels to highlight your displays.



Product Overview

Type: Track Accent & Display
Wattage: 46W, 51W
Color Temp: 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)
90+ typ. (2700K, 3000K)
CrispWhite & 3K Class A LEDs available
Dimming: TRIAC & ELV, 5% Dim, 120/277VAC

Certifications



Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
46	3,263	70.9	26,826	3000K-83
51	4,618	89.6	36,370	3000K-83

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

Data is based on Spot optics.

See pg 5-6 for other beam spreads performance.

Electrical Data

	46W		51W	
Voltage	System Watts	Amps	System Watts	Amps
120V	46	0.38	51	0.43
277V	46	0.17	51	0.18

Electronic constant current LED driver.

Cylindrix® IV

Track Head



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Ordering Information

			LE/TE					
1	2	3	4	5	6	7	8	9
1 Model		2 Wattage		3 Finish				
C4TV-A17 (vertical)		46 51		WT white texture BT black texture ST silver texture Other finishes, consult factory				
4 Mounting				5 Voltage		6 Beam Spread		
Vertical				120 277		SP spot, 15° FL flood, 25° WF wide flood, 36° LS linear spread lens, 60° x 10°		
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-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			LE/TE TRIAC/ELV dimming			(standard front door accepts up to 2 accessories)		
27 2700K-83 279 2700K-90+ CRISP CrispWhite						SN snoot, 1-1/4" length, matte black interior, exterior finish matches fixture finish, accepts up to 2 additional accessories		
30 3000K-83 309 3000K-90+ 3CLA 3K Class A								
35 3500K-83						HEX hexcell louver		
40 4000K-83						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 Spread: Spot, 15°; Flood, 25°; Wide Flood, 36°;
Linear Spread, 60° x 10°

LED

Color Temp Options: 2700K, 3000K, 3500K, 4000K, CRISP, Class A
CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)
90+ typ. (2700K, 3000K)
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: 46W, 51W
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® IV

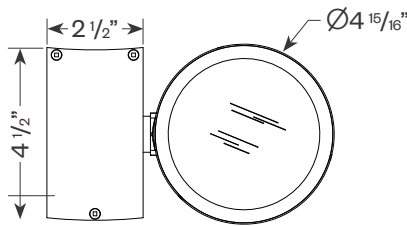
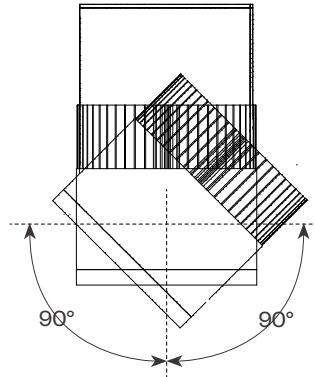
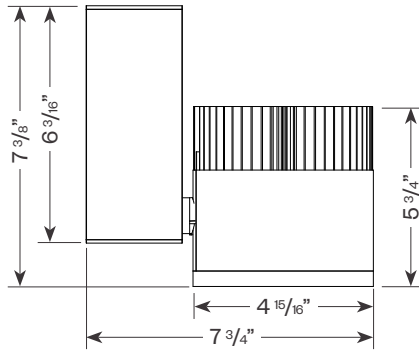
Track Head



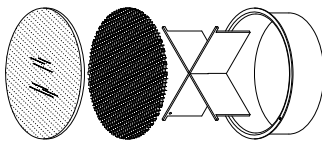
PROJECT:

TYPE:

Product Details



Accessories



Solite lens, Hexcell louver, Cross Blade, Snoot (accepts up to 2 accessories)

PROJECT:

TYPE:

Performance Data

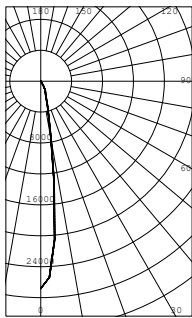
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

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

CCT:	2700K-90+	3000K-90+	CRISP	3CLA
Factor:	0.80	0.83	0.65	0.70

46W LED, 3000K-83 (for 51W data, see next page)

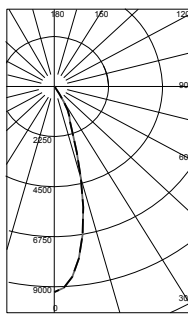
Spot (SP), 15°
LTL #850984
Lumens: 3,263



Candelas at Nadir

Deg	Candela
0	26826
5	20551
15	3394
25	1387
35	181
45	23

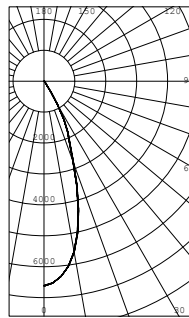
Flood (FL), 25°
LTL #858166
Lumens: 2,845



Candelas at Nadir

Deg	Candela
0	9244
5	8587
15	4259
25	1481
35	134
45	55

Wide Flood (WF), 36°
LTL #850985
Lumens: 2,831



Candelas at Nadir

Deg	Candela
0	6620
5	6342
15	4313
25	1810
35	141
45	55

Application Data

Notes and Definitions:

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

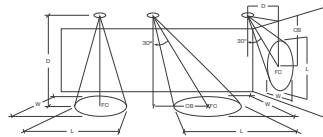
D=Distance to floor or wall.

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.



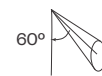
0° Aiming Angle
Horizontal
Footcandles



30° Aiming Angle
Horizontal
Footcandles



30° Aiming Angle
Vertical
Footcandles



60° Aiming Angle
Vertical
Footcandles

		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'	1066	1.3	1.3		5.0'	690	1.7	1.4	3.0	3.0'	399	3.0	1.4	5.0	3.0'	1487	1.3	1.1	2.0
	7.5'	475	1.9	1.9		7.5'	312	2.6	2.3	4.0	4.0'	247	3.6	1.8	6.0	4.0'	1057	1.5	1.2	2.0
	10.0'	268	2.8	2.8		10.0'	170	3.6	3.1	6.0	5.0'	154	4.5	2.6	8.0	5.0'	666	1.9	1.4	3.0
	12.5'	172	3.3	3.3		12.5'	113	4.3	3.7	7.0	6.0'	111	5.3	2.9	9.0	6.0'	471	2.2	1.6	3.0
FLOOD	5.0'	370	2.5	2.5		5.0'	239	3.1	2.9	3.0	3.0'	193	3.7	2.5	4.0	3.0'	574	2.3	1.6	1.0
	7.5'	165	3.6	3.6		7.5'	113	4.5	4.1	4.0	4.0'	112	4.7	3.1	5.0	4.0'	400	2.5	2.2	2.0
	10.0'	93	4.9	4.9		10.0'	64	6.0	5.4	5.0	5.0'	73	5.8	3.9	6.0	5.0'	243	3.1	2.8	2.0
	12.5'	60	6.0	6.0		12.5'	41	7.4	6.8	6.0	6.0'	50	7.3	4.7	7.0	6.0'	178	3.6	3.2	3.0
WIDE FLOOD	5.0'	265	3.1	3.1		5.0'	189	3.6	3.2	2.0	3.0'	170	3.6	2.7	3.0	3.0'	502	2.3	1.8	1.0
	7.5'	118	4.6	4.6		7.5'	84	5.4	5.0	3.0	4.0'	96	4.6	3.5	4.0	4.0'	292	3.0	2.8	2.0
	10.0'	67	6.0	6.0		10.0'	48	7.2	6.7	4.0	5.0'	62	5.9	4.5	5.0	5.0'	192	3.6	3.2	2.0
	12.5'	43	7.6	7.6		12.5'	31	9.0	8.3	5.0	6.0'	43	7.2	5.4	6.0	6.0'	130	4.4	4.1	3.0

PROJECT:

TYPE:

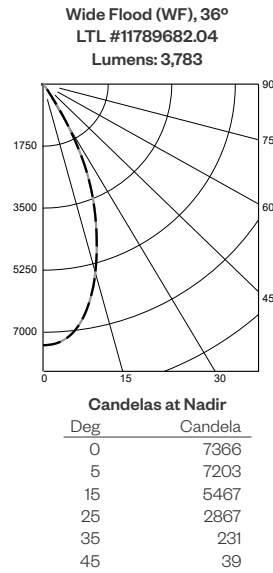
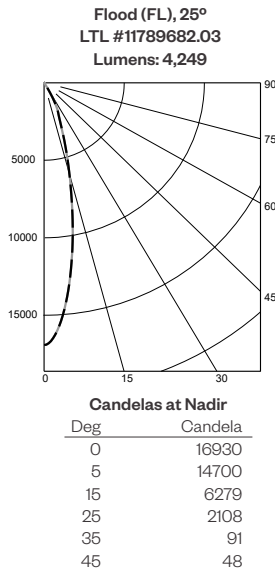
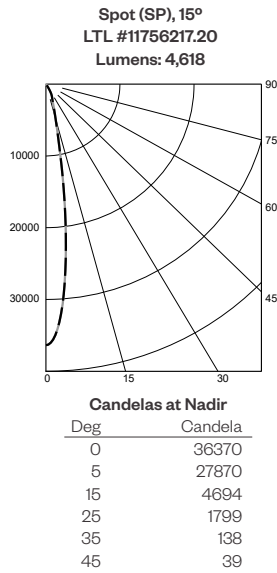
Performance Data (continued)

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

CCT:	2700K-90+	3000K-90+	CRISP	3CLA
Factor:	0.80	0.83	0.65	0.70

51W LED, 3000K-83 (for 46W data, see next page)



Application Data

Notes and Definitions:

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

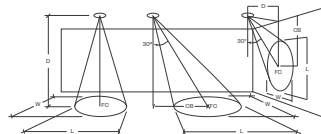
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FC=Footcandles on floor or wall at center beam aiming location.

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'	1452	1.3	1.3	5.0'	938	1.8	1.5	3.0	3.0'	548	3.0	1.5	5.0	3.0'	2032	1.4	1.4	2.0
	7.5'	648	2.0	2.0	7.5'	425	2.7	2.4	4.0	4.0'	338	3.7	1.9	6.0	4.0'	1443	1.6	1.2	2.0
	10.0'	365	2.8	2.8	10.0'	232	3.7	3.2	6.0	5.0'	210	4.7	2.7	8.0	5.0'	913	2.0	1.5	3.0
	12.5'	234	3.4	3.4	12.5'	155	4.5	3.9	7.0	6.0'	151	5.5	3.0	9.0	6.0'	642	2.2	1.7	3.0
FLOOD	5.0'	679	2.0	2.0	5.0'	437	2.8	2.5	3.0	3.0'	318	3.7	2.2	4.0	3.0'	1005	2.1	1.5	2.0
	7.5'	302	3.1	3.1	7.5'	203	4.0	3.5	4.0	4.0'	178	4.8	3.0	5.0	4.0'	708	2.2	1.8	2.0
	10.0'	170	4.1	4.1	10.0'	113	5.4	4.8	5.0	5.0'	113	6.1	3.7	7.0	5.0'	427	2.8	2.5	3.0
	12.5'	109	5.2	5.2	12.5'	73	6.7	5.9	7.0	6.0'	81	7.6	4.4	8.0	6.0'	157	3.3	2.9	3.0
WIDE FLOOD	5.0'	296	3.5	3.5	5.0'	220	3.9	3.7	2.0	3.0'	216	3.5	2.8	3.0	3.0'	600	2.3	2.2	1.0
	7.5'	132	5.3	5.3	7.5'	98	5.9	5.6	3.0	4.0'	122	4.4	3.9	4.0	4.0'	330	3.2	3.1	2.0
	10.0'	74	7.0	7.0	10.0'	55	7.9	7.5	4.0	5.0'	78	5.6	5.0	5.0	5.0'	222	3.9	3.7	2.0
	12.5'	48	8.8	8.8	12.5'	36	10.0	9.5	5.0	6.0'	55	6.8	5.9	6.0	6.0'	151	4.8	4.6	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

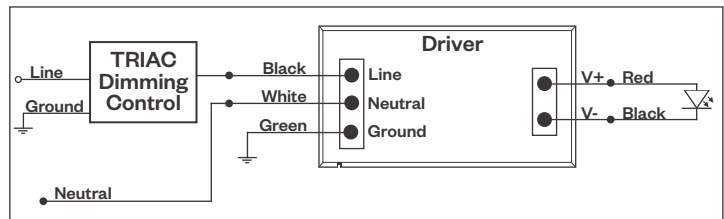
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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

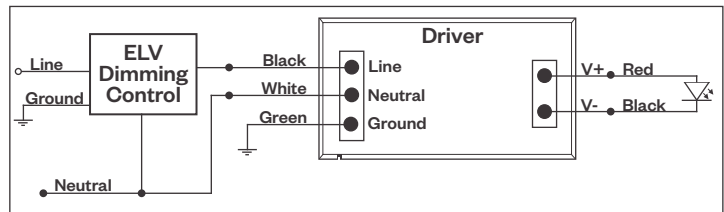
Utilizes specialized "ELV" dimmers.

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.