Cylindrix® IV

Track Head

amerlux
A Delta Group Company

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:	46, 51
Lumen Output:	4,618 max; 89.6 Lm/W
CBCP:	36,370 max
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. (2700K, 3000K, 3500K, 4000K) 90+ typ. (2700K, 3000K) CrispWhite & Class A LED's available
Dimming:	TRIAC & ELV (120/277VAC) - 5% Dim

PROJECT:

TYPE:

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

Performance Chart

Watts	Delivered Lumens	LPW	CBCP	Color Temp
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	
	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

c SP us 5 year limited warranty AMERLUX LED ENERGY STAR

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PROJECT: **TYPE:**

Ordering Information

C4TV-A17 . ____ . ____ . ____ . ____ . ____ . ____ . ____ . LE/TE . ____

1 2 3 4 5 6 7 8 9

1 Model
C4TV-A17 (vertical)

2 Wattage
46
51

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

4 Mounting
TN1 - Global GES/H-Style, 1 circuit, 120V
TEK - Global TEK, 2 circuit/2 neutral, 120V
TN3 - Global XTS, 3 circuit, 120V
TN2 - Global HTEK, 2 circuit/2 neutral, 277V
CT - J-Style, 1 or 2 circuit, 120V
LOL -L-Style, 1 circuit, 120V
CPR - Capri, 1 circuit, 120V
B* - busway, 120V or 277V
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: *Busway compact series B40,B60c only, consult factory for other busway adapters. Black busway adapter used for ST finishBlack cord used for BT & ST finish, White cord used for WT finish**

5 Voltage
120
277

6 Beam Spreads
SP - spot, 15°
FL - flood, 25°
WF - wide flood, 36°
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		
40 - 4000K-83		

8 Driver
LE/TE - TRIAC/ELV dimming

9 Options/Accessories
(standared front door accepts up to 2 accessories)
SN - snoot, 1-1/4" length, matte black interior, exterior finish matches fixture finish, accepts up to 2 additional accessories
HEX - hexcell louver
SOL - solite beam softening lens
CB - cross blade, matte black finish (requires snoot)

ENERGY STAR

Note: See page 8 for Energy Star approved model numbers.

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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

0-90º tilt, 360º rotation
Beam Spreads: Spot, 15º; Flood, 25º; Wide Flood, 36º; Linear Spread, 60° x 10°

LED

Color Temp Options:
2200K, 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 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: 46, 51
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

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

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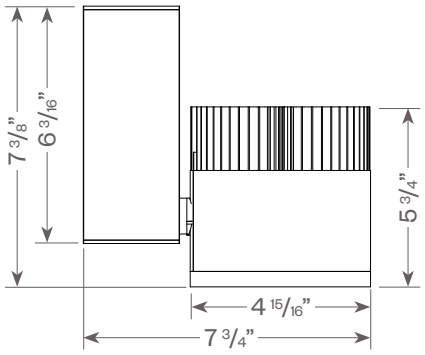
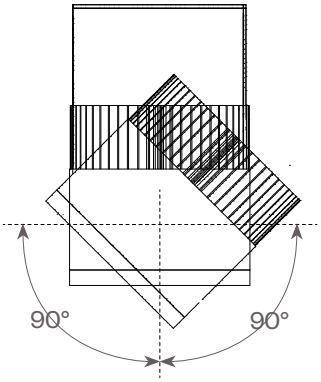
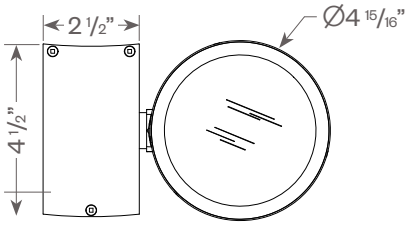
PROJECT: **TYPE:**

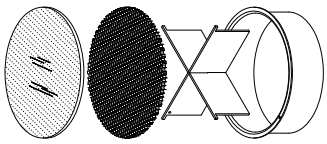
C4 Track Vertical:







Accessories



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

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PROJECT: **TYPE:**

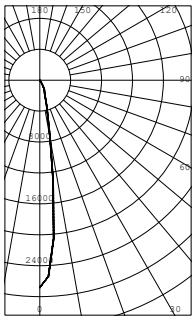
FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

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

CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	CRISP	3CLA
Factor:	0.96	1.0	1.02	1.04	0.80	0.83	0.65	0.75

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

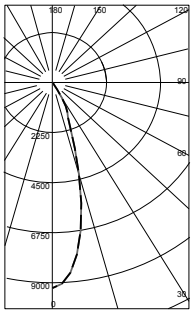
Spot (SP), 15°
LTL #850984
Lumens: 3,263



Candelas at Nadir

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

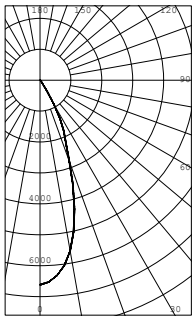
Flood (FL), 25°
LTL #858166
Lumens: 2,845



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

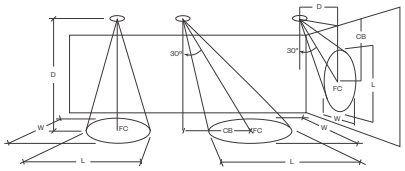


Candelas at Nadir

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

	D	FC	L	W
SPOT	5.0'	1066	1.3	1.3
	7.5'	475	1.9	1.9
	10.0'	268	2.8	2.8
	12.5'	172	3.3	3.3
FLOOD	5.0'	370	2.5	2.5
	7.5'	165	3.6	3.6
	10.0'	93	4.9	4.9
	12.5'	60	6.0	6.0
WIDE FLOOD	5.0'	265	3.1	3.1
	7.5'	118	4.6	4.6
	10.0'	67	6.0	6.0
	12.5'	43	7.6	7.6

30° Aiming Angle Horizontal Footcandles

	D	FC	L	W	CB
SPOT	5.0'	690	1.7	1.4	3.0
	7.5'	312	2.6	2.3	4.0
	10.0'	170	3.6	3.1	6.0
	12.5'	113	4.3	3.7	7.0
FLOOD	5.0'	239	3.1	2.9	3.0
	7.5'	113	4.5	4.1	4.0
	10.0'	64	6.0	5.4	5.0
	12.5'	41	7.4	6.8	6.0
WIDE FLOOD	5.0'	189	3.6	3.2	2.0
	7.5'	84	5.4	5.0	3.0
	10.0'	48	7.2	6.7	4.0
	12.5'	31	9.0	8.3	5.0

30° Aiming Angle Vertical Footcandles

	D	FC	L	W	CB
SPOT	3.0'	399	3.0	1.4	5.0
	4.0'	247	3.6	1.8	6.0
	5.0'	154	4.5	2.6	8.0
	6.0'	111	5.3	2.9	9.0
FLOOD	3.0'	193	3.7	2.5	4.0
	4.0'	112	4.7	3.1	5.0
	5.0'	73	5.8	3.9	6.0
	6.0'	50	7.3	4.7	7.0
WIDE FLOOD	3.0'	170	3.6	2.7	3.0
	4.0'	96	4.6	3.5	4.0
	5.0'	62	5.9	4.5	5.0
	6.0'	43	7.2	5.4	6.0

60° Aiming Angle Vertical Footcandles

	D	FC	L	W	CB
SPOT	3.0'	1487	1.3	1.1	2.0
	4.0'	1057	1.5	1.2	2.0
	5.0'	666	1.9	1.4	3.0
	6.0'	471	2.2	1.6	3.0
FLOOD	3.0'	574	2.3	1.6	1.0
	4.0'	400	2.5	2.2	2.0
	5.0'	243	3.1	2.8	2.0
	6.0'	178	3.6	3.2	3.0
WIDE FLOOD	3.0'	502	2.3	1.8	1.0
	4.0'	292	3.0	2.8	2.0
	5.0'	192	3.6	3.2	2.0
	6.0'	130	4.4	4.1	3.0

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PROJECT: **TYPE:**

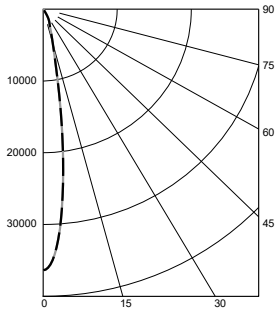
FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

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

CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	CRISP	3CLA
Factor:	0.96	1.0	1.02	1.04	0.80	0.83	0.65	0.75

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

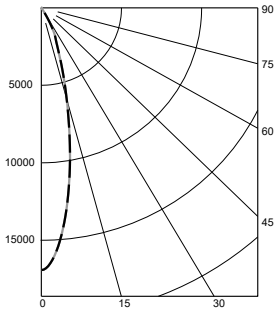
Spot (SP), 15°
LTL #11756217.20
Lumens: 4,618



Candelas at Nadir

Deg	Candela
0	36370
5	27870
15	4694
25	1799
35	138
45	39

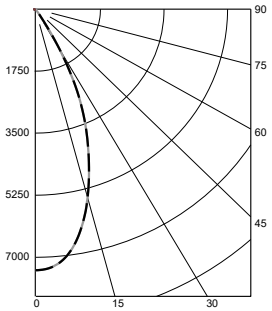
Flood (FL), 25°
LTL #11789682.03
Lumens: 4,249



Candelas at Nadir

Deg	Candela
0	16930
5	14700
15	6279
25	2108
35	91
45	48

Wide Flood (WF), 36°
LTL #11789682.04
Lumens: 3,783

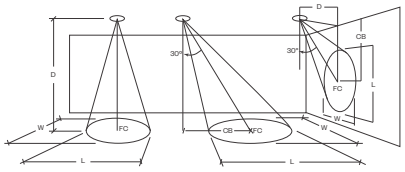


Candelas at Nadir

Deg	Candela
0	7366
5	7203
15	5467
25	2867
35	231
45	39

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'	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

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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 ---

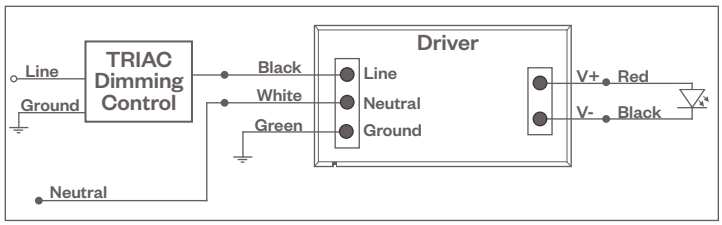
TRIAC (Forward Phase) DIMMING (Standard)

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

Notes:

- 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”	

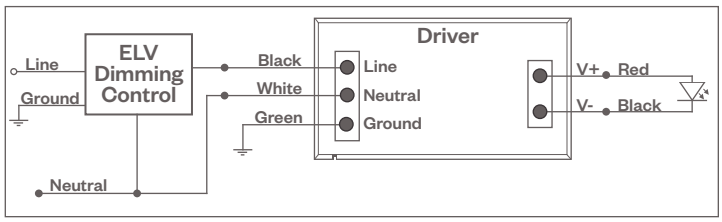
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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

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.

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PROJECT: **TYPE:**

ENERGY STAR APPROVED MODEL NUMBERS:

ENERGY STAR

Certificate of
Conformance

Energy Efficiency Certification

UL conducted an independent evaluation on behalf of:

AMERLUX L L C

23 Daniel Rd., Fairfield, NJ 07004-2527

for the following products:

Directional Luminaires

Brand: Amerlux

Model: See Appendix A

This product meets all of the necessary qualifications pursuant to:

ENERGY STAR®: Program Requirements for Luminaires, Version 2.0

UL Energy Verified

2017-09-08
Certification Date

N/A
Certification Revision Date

Issued by

11943107
UL Product Number

00-VS-F0418, Version 3.0, This is to certify that representative samples of the Certified Product(s) listed above have been investigated by UL to the Standard(s) indicated on this certificate, in accordance with the UL Global Services Agreement and the EEC Terms & Conditions ("Agreement"). The Certificate Holder is entitled to use the UL Energy Verified Mark for the Certified Product(s) listed on the certificate and manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate shall remain valid unless a Standard identified on this Certificate is amended or withdrawn prior to that date or these is a non-compliance with the Agreement.

Appendix A

Model Name	Model Number	Family Model(s) - Additional Model Number
C4TV	C4TV-A17-51-**-***-###-**-309-LE/TE	C4TV-A17-51-**-***-###-**-27-LE/TE
		C4TV-A17-51-**-***-###-**-30-LE/TE
		C4TV-A17-51-**-***-###-**-35-LE/TE
		C4TV-A17-51-**-***-###-**-40-LE/TE
C4TV	C4TV-A17-46-**-***-###-**-279-LE/TE	C4TV-A17-46-**-***-###-**-309-LE/TE
		C4TV-A17-46-**-***-###-**-27-LE/TE
		C4TV-A17-46-**-***-###-**-30-LE/TE
		C4TV-A17-46-**-***-###-**-35-LE/TE
		C4TV-A17-46-**-***-###-**-40-LE/TE

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