

Cylindrix® III Mini

3.5" Round Surface Canopy



PROJECT:

TYPE:

Features

This powerful, compact member of our Cylindrix family enhances your design aesthetics. The new Cylindrix III Mini (C3M) Round Surface Canopy 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.



C3M-RSC

Product Overview

Type: Surface Accent & Display
Wattage: 15W, 18W*, 21W (*VNSP only)
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: TRIAC & ELV, 5% Dim, 120/277VAC
Lutron LDE1 Hi-lume® 1% Dim Soft-On/Fade-to-Black, 120/277VAC
0-10V, 1% Dim, 120/277VAC
DALI, 1% Dim, 120/277VAC

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

* Note: 18W is VNSP only

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

15W & 21W data is based on Very Narrow Flood optics. 18W data is Very Narrow Spot optic only.

See pg 6-7 for other beam spreads.

Electrical Data

	15W		18W		21W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	15	0.13	18	0.15	21	0.18
277V	15	0.05	18	0.06	21	0.08

Electronic constant current LED driver.

Cylindrix® III Mini

3.5" Round Surface Canopy



PROJECT:

TYPE:

Ordering Information - Housing/Frame

1	2	3	4	5	
1	Model	2	Wattage	3	Voltage
	<u>For New Construction</u>		15 (120/277 only)		120
	C3M-RSC-NC-A17 (New Construction)		18 (VNSP only)		277
	C3M-RSC-CP-A17 (Chicago Plenum (CCEA) housing)		21		120/277 (for use with 15W only)
	C3M-RSC-IC-A17 (Insulated Ceiling/air tight housing, 15W only)				
	<u>For Existing Ceilings</u>				
	C3M-RSC-REM-A17 (Remodeler)				
4	Driver (for non-dimming, select LE/TE option)	5	Options/Accessories		
	LE/TE TRIAC/ELV dimming, 5% dim		EM emergency battery pack with remote test switch (not available for use with REM, CP or IC options)		
	HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black		HB49 hanger bars from min 29" to max 49" (not available for use with REM options)		
	O-10V 0-10V dimming, 1% dim		Note: 26" hanger bars are included as standard.		
	DALI DALI dimming, 1% dim		Choose HB49 option above for larger mounting spaces only.		

Ordering Information - Trim

C3M-RSC-A17					
1	2	3	4	5	
1	Model	2	Finish	3	Beam Spread
	C3M-RSC-A17		WT white texture		VNSP very narrow spot, 8° (18W only)
			BT black texture		SP spot, 14°
			ST silver texture		VNF very narrow flood, 18°
			Other finishes, consult factory		NF narrow flood, 23°
					FL flood, 34°
					WF wide flood, 44°
					LS linear spread lens, 60° x 10°
4	Color Temp	5	Options/Accessories		
	83 CRI		(standard front door accepts up to 2 accessories)		
	90+ CRI		SN snoot, 1" length, matte black interior, exterior finish matches fixture finish (accepts up to 2 accessories + cross blade)		
	27 2700K-83	229* 2200K-90+	3CLA 3000K Class A		
	30 3000K-83	279 2700K-90+			
	35 3500K-83	309 3000K-90+			
	40 4000K-83	359 3500K-90+			
		409 4000K-90+			
	* Not available for use with 18W VNSP				



Delta Intelligent Building Technologies

178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com
Amerlux reserves the right to change details that do not affect overall function and performance.
LIT-2096 • 02/11/26 • Page 2 of 10

Cylindrix® III Mini

3.5" Round Surface Canopy



PROJECT:

TYPE:

Specifications

Application

Retail and commercial accent and display lighting

Construction

20 ga. galvanized steel frame
18 ga. galvanized steel splice housing and hanger brackets (*not for Remodeler version*)
Die-cast optical housing and heat sink

Optical

0-180° 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°

LED

Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K, Class A
CRI: 83 typ. (*2700K, 3000K, 3500K, 4000K*)
90+ typ. (*2200K, 2700K, 3000K, 3500K, 4000K*)
Class A* 3000K (high CRI, high gamut) available (*see description below*)
R9 Values: 11 (*83 CRI*), 55 (*92 CRI*)
Binning: 3 MacAdam (*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 (**VNSP only*)
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.
0-10V, Lutron and DALI systems also available
See pages 8-10 for more dimming information

Finish

Powder coat paint
Consult factory for custom finishes

Mounting

For use in T-Grid or GB ceilings; max ceiling thickness 1"
26" Hanger bars included (*except for Remodeler versions*)
Optional **HB49** - hanger bars from min 29" to max 49" available
Consult Factory for thicker ceilings

Certifications

CSA damp as tested to UL 1598 standards
IC/AT rated (*optional, not for Remodeler version*)
For indoor use only

Warranty

5 year limited warranty

Emergency Battery Pack (EM)

Powers fixture at 5.1 watts (*approx. 400 Lm*) for 90 minutes (*not for Remodeler (REM) version*)



Cylindrix® III Mini

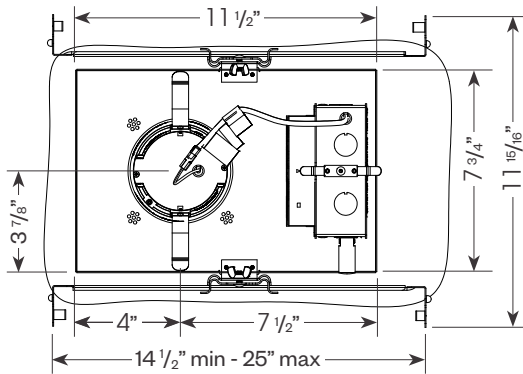
3.5" Round Surface Canopy



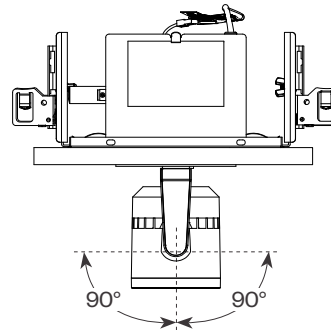
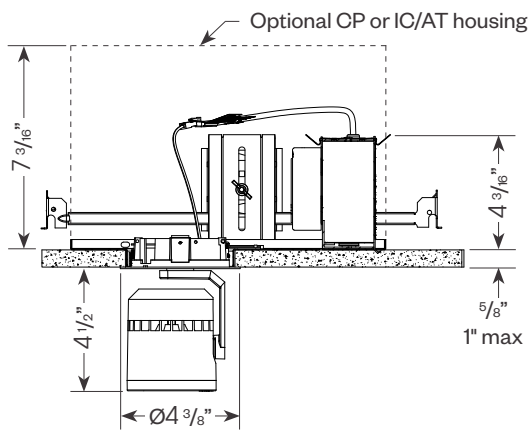
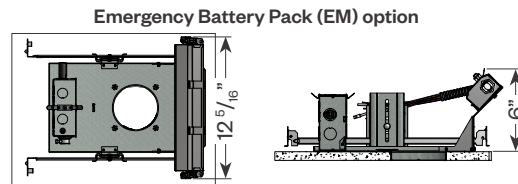
PROJECT:

TYPE:

Product Details - New Construction



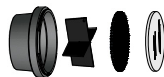
Ceiling Cut Out: 4" dia.



Accessories (diagrams show installation order)



Front door/Accessory holder, hexcell, solite lens



Snoot accessory holder, cross blade, hexcell, solite lens

Cylindrix® III Mini

3.5" Round Surface Canopy

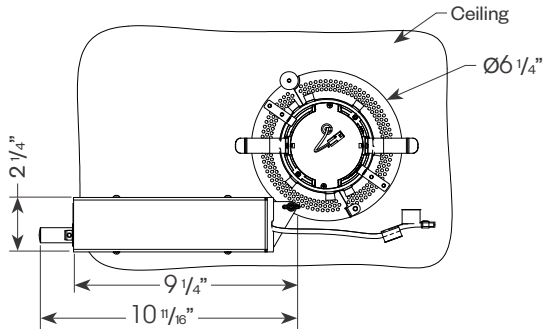


PROJECT:

TYPE:

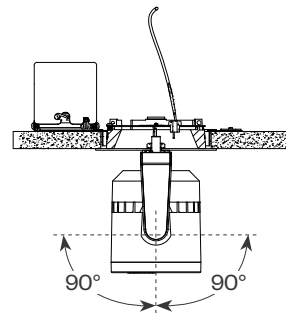
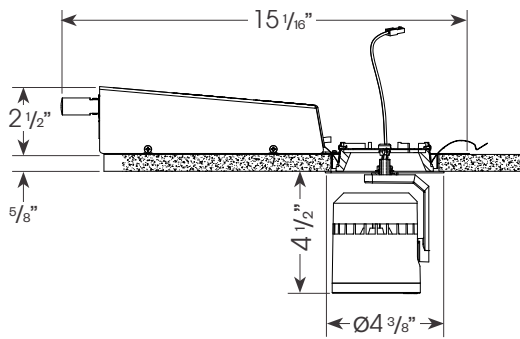
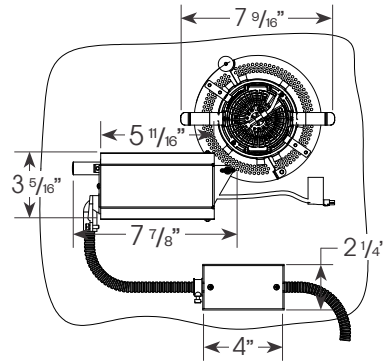
Product Details - Remodeler

ELV/Triac Driver



Ceiling Cut Out: 4" dia.

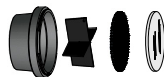
Hi-lume®/0-10V Driver



Accessories (diagrams show installation order)



Front door/Accessory holder, hexcell, solite lens



Snoot accessory holder, cross blade, hexcell, solite lens

Cylindrix® III Mini

3.5" Round Surface Canopy



PROJECT:

TYPE:

Performance Data (per head)

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

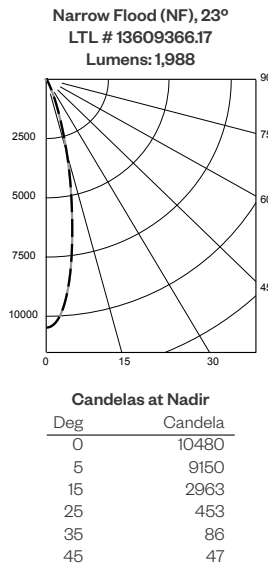
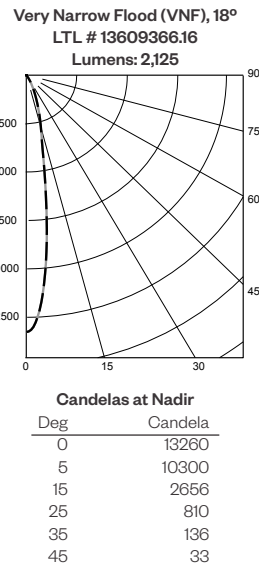
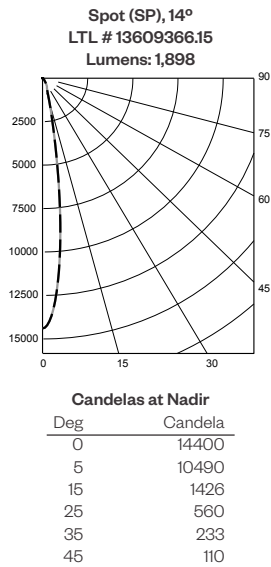
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

Wattage:	15W	21W
Factor:	0.71	1.0

Note: For 18W (VNSP only) data see pg 7

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 7

Application Data (per head)

Notes and Definitions:

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

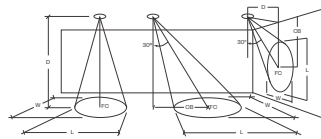
D=Distance to floor or wall.

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	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	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
NARROW FLOOD	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	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



Delta Intelligent Building Technologies

Cylindrix® III Mini

3.5" Round Surface Canopy



PROJECT:

TYPE:

Performance Data (per head, continued)

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

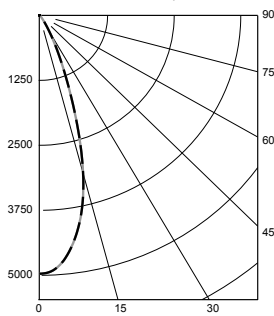
Wattage:	15W	21W
Factor:	0.71	1.0

OCT:	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

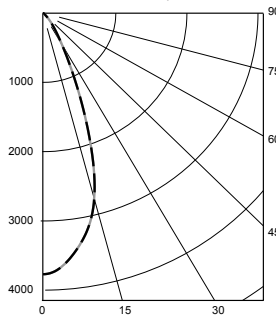
Flood (FL), 34°
LTL # 13609366.18
Lumens: 1,960



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



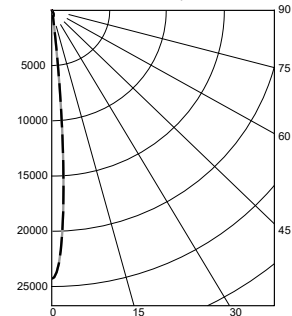
Candelas at Nadir

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 (per head, continued)

Notes and Definitions:

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

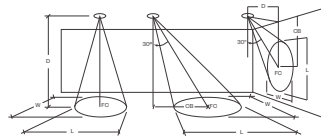
D=Distance to floor or wall.

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	5.0'	151	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
	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
18W only VERY NARROW SPOT	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

Cylindrix® III Mini

3.5" Round Surface Canopy



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

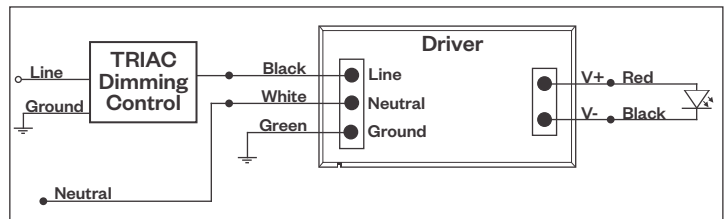
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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

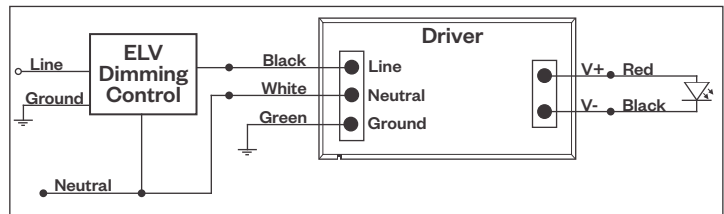
Utilizes specialized "ELV" dimmers.

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.

Cylindrix® III Mini

3.5" Round Surface Canopy



PROJECT:

TYPE:

Dimming Compatibility *(continued)*

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 ---

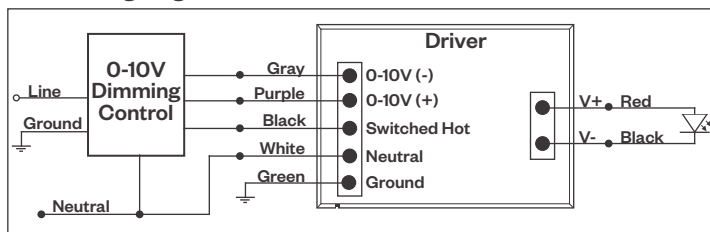
0-10V Dimming

Integrates into a variety of building management and daylighting controls

Notes:

- 120VAC or 277VAC*
- Dims down to 1% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

0-10V Wiring Diagram



Compatible Dimmers*:

Wall Box

Lutron "Diva" - DVSTV Leviton Renoir II 0-10V

Central System

Lutron Grafik Eye with GRX-TVI Interface

Lutron LDE1 Dimming

Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- Dims down to 1% Soft-On/Fade-to-Black
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

Compatible Dimmers*:

Lutron ECO System

Pow Pak Dimming Modules

Energi Savr Node

Grafik Eye QS/Homeworks

QS Control Unit

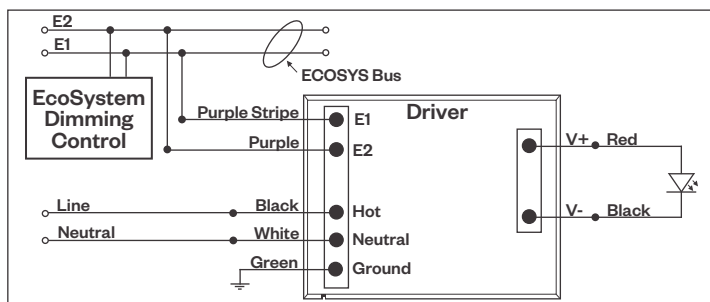
Quantum Hub

Homeworks QS/My Room

Central System

Lutron EcoSystem compatible controls

LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



DALI Dimming

Digital control protocol allows individual fixture control

Notes:

- 120VAC - 277VAC*
- Dims down to 1% light output in most cases

Compatible Dimmers*:

Wall Box (3-Wire Fluorescent)

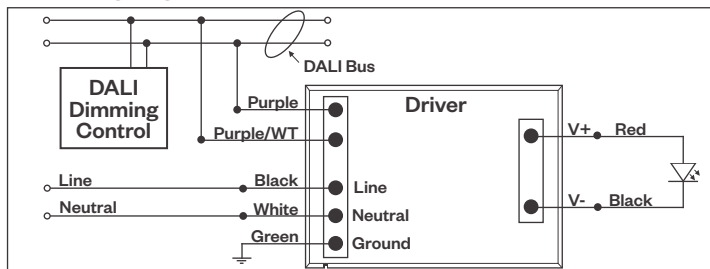
Leviton CD250 Controller

Central System

Dynalite

Fifth Light

DALI 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.

Cylindrix® III Mini

3.5" Round Surface Canopy



PROJECT:

TYPE:

Emergency Battery Pack

Wiring Diagram

