

# CYLINDRIX® III MINI

MULTIPLE RECESSED 4 LIGHT LED

C3MR-4  
4LT LED

## APPLICATION:

Accent and display lighting for retail, commercial and hospitality environments

## CONSTRUCTION:

Stamped steel mounting frame with integral mounting bars  
Thermally protected  
Steel driver housing  
Steel upper housing and laser cut trim ring  
Complete die-cast optical head construction  
Powder coat paint

## MOUNTING:

For use in T-grid or sheetrock ceilings, max thickness 1" standard, consult factory for thicker ceilings

## LABELING:



For indoor use only

## OPTICS:

0-35° x 35° tilt, 360°+ rotation  
Available in a variety of beam spreads  
LED:  
Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K  
CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)  
90+ typ. (2200K, 2700K, 3000K, 3500K)  
Crisp White LED available  
R9 Values: 11 (83CRI), 55 (90+CRI)  
Binning: 3 MacAdam  
Lumen Maintenance: >70% of initial lumens @ 50,000 hrs  
Lumen Output per head (21w, 3K): 1850 lm (89.6 lpw)  
CBCP per head (21w, 3K): SP 13,578

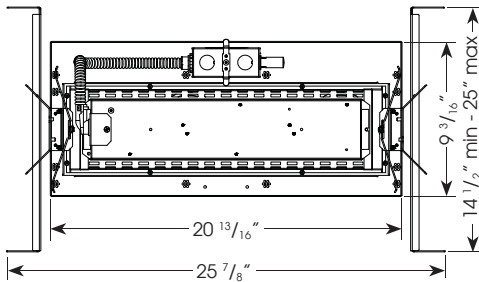
## ELECTRICAL:

Electronic constant current LED driver, 120v - 277v input  
ELV and Triac dimming standard, 120v & 277v.  
0-10v and Lutron systems also available. See following pages for more information.  
**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 damage is not covered by warranty.**

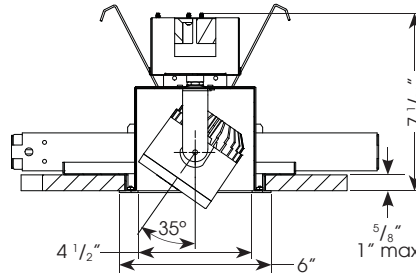
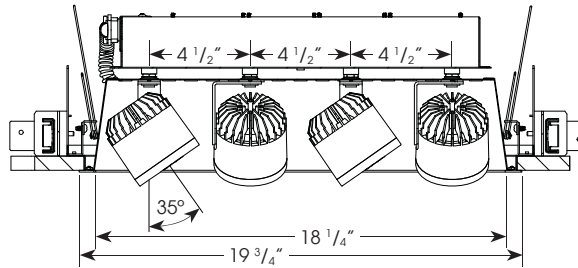


PROJECT:

TYPE:



Ceiling Cut Out Dimension: 5 9/16" x 19 5/16"



Electrostatic sensitive device,  
observe precautions for  
handling

## ELECTRICAL

Electronic driver

	4x15w		4x18w		4x21w	
	System	Watts	System	Watts	System	Watts
120v	60	0.50	72	0.60	84	0.70
277v	60	0.22	72	0.26	84	0.30

## ORDERING INFORMATION:

FRAME Model	# Heads	Lamp Type	Voltage	Options/Accessories
C3MR/SR-FRAME	4	LED	120 277	0-10V - 0-10v dimming HILUME - Lutron Hi-Lume® dimming DALI - DALI dimming EM - emergency battery back (1 head)

Complete Unit Specification:

C3MR/SR-FRAME-4-LED-120/C3MR-TRIM-4-21-LED-WT-120-277-SP-SP-SP-WT-30

Frame Only: C3MR/SR-FRAME-4-LED-120

Trim Only: C3MR-TRIM-4-21-LED-WT-120-277-SP-SP-SP-WT-30

TRIM Model	# Heads	Wattage	Lamp Type	Housing/ Head Finish	Voltage	Beam Spreads*	Trim Finish	Color Temp (CCT-CRI)	Options/Accessories
C3MR-TRIM	4	15	LED	WT - white texture	120-277	SP	WT - white	27 - 2700-83	SN- snoot, 1" w/black matte interior standard
		21				VNF	30 - 3000-83		
				BT - black texture		NF	BT - black	35 - 3500-83	HEX - hexcell louver
				ST - silver texture		FL	FL - linear spread	40 - 4000-83	LS - linear spread
				(other RAL)		WF	ST - silver texture	229 - 2200-90+	CB - cross blade, matte black, requires snoot
		18 (8° only)				VNSP**	279 - 2700-90+	309 - 3000-90+	SOL - solite beam softening lens
						VNSP**	359 - 3500-90+	359 - 3500-90+	0-10V - 0-10v dimming
						VNSP**	409 - 4000-90+	409 - 4000-90+	HILUME - Lutron Hi-lume® dimming
						VNSP**	3CLA - 3K Class A	3CLA - 3K Class A	DALI - DALI driver
						VNSP**	CRISP - CrispWhite (not for VNSP)	CRISP - CrispWhite (not for VNSP)	EM - emergency battery back (1 head)

\*\* (18w only)  
\*SP - spot 14°, VNF - very narrow flood 18°, NF - narrow flood 23°, FL - flood 34°, WF - wide flood 44°, VNSP - very narrow spot 8°

Cat #:

Amerlux reserves the right to change details that do not affect overall function and performance.



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4LT LED



TYPE:



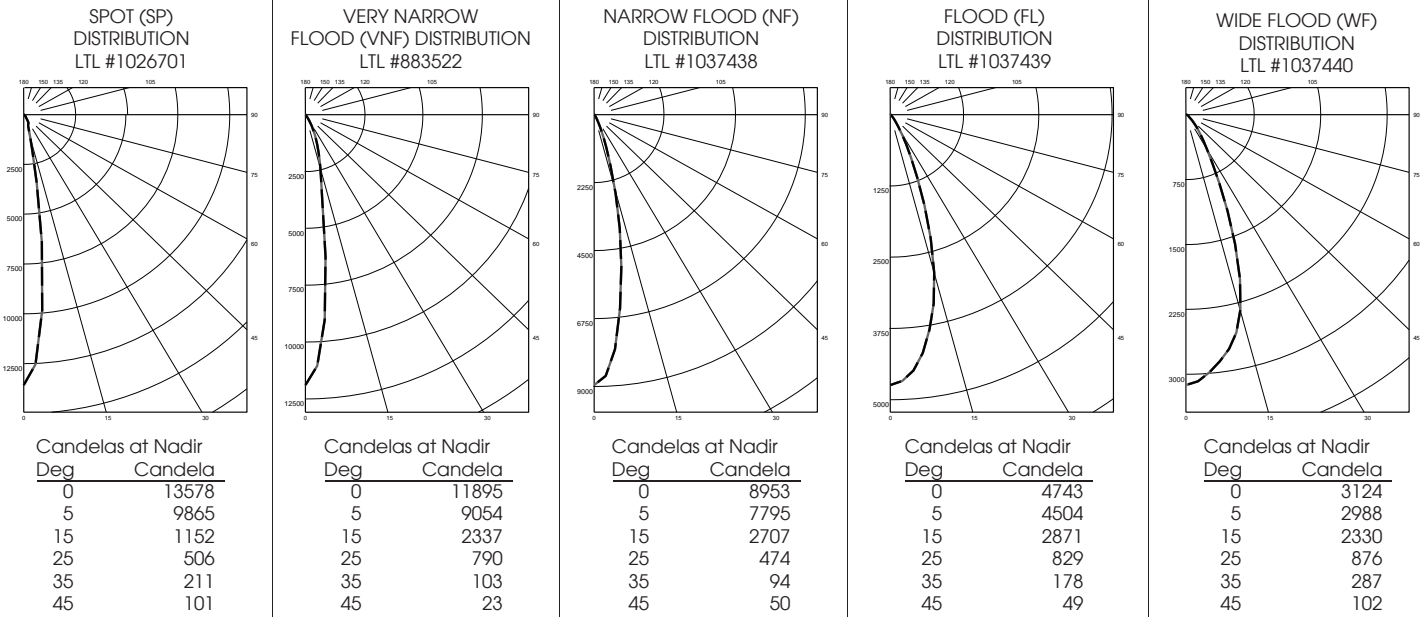
**FIXTURE DATA:** For 15W data, multiply by 0.71; For 18W see next page

Complete photometric data (ies format) available upon request.

CCT Correction Factors: 2700-83 = 0.96; 3500-83 = 1.02; 4000-83 = 1.04; 2200-90+ = 0.71; 2700-90+ = 0.80; 3000-90+ = 0.83; 3500-90+ = 0.87; Crisp = 0.65

**21W LED (3000K)**

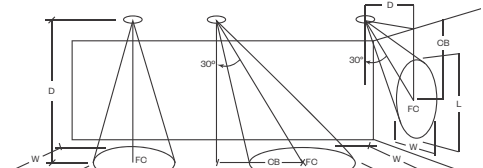
Note: Data per head



**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'	540	1.2	1.2	5.0'	348	1.6	1.4	3.0	3.0'	200	2.8	1.4	5.0	3.0'	726	1.3	1.1	2.0	4.0'	518	1.5	1.2	2.0
	7.5'	241	1.8	1.8	7.5'	155	2.5	2.2	4.0	4.0'	121	3.5	1.8	6.0	4.0'	334	1.8	1.3	3.0	6.0'	230	2.2	1.6	3.0
	10.0'	136	2.6	2.6	10.0'	85	3.4	3.0	6.0	5.0'	77	4.3	2.5	8.0	5.0'	293	2.0	1.5	3.0	6.0'	206	2.4	1.8	3.0
	12.5'	87	3.2	3.2	12.5'	57	4.2	3.6	7.0	6.0'	54	5.2	2.9	9.0										
VERY NARROW FLOOD	5.0'	473	1.4	1.4	5.0'	305	1.9	1.5	3.0	3.0'	176	3.4	1.5	5.0	3.0'	651	1.6	1.2	2.0	4.0'	462	1.6	1.3	2.0
	7.5'	211	2.1	2.1	7.5'	136	2.9	2.5	4.0	4.0'	108	4.1	2.0	6.0	4.0'	293	2.0	1.5	3.0	6.0'	206	2.4	1.8	3.0
	10.0'	119	2.9	2.9	10.0'	75	3.8	3.3	6.0	5.0'	67	5.3	2.8	8.0	5.0'	249	2.5	2.2	3.0	6.0'	182	2.9	2.6	3.0
	12.5'	76	3.5	3.5	12.5'	50	4.7	3.9	7.0	6.0'	49	6.3	3.2	9.0										
NARROW FLOOD	5.0'	358	1.9	1.9	5.0'	257	2.4	2.1	3.0	3.0'	181	3.2	1.8	4.0	3.0'	620	1.9	1.2	2.0	4.0'	426	1.9	1.5	2.0
	7.5'	159	2.9	2.9	7.5'	115	3.5	3.2	4.0	4.0'	96	4.4	2.8	6.0	4.0'	249	2.5	2.2	3.0	6.0'	182	2.9	2.6	3.0
	10.0'	90	3.8	3.8	10.0'	63	4.8	4.2	5.0	5.0'	63	5.3	3.3	7.0	5.0'	133	3.5	3.1	2.0	6.0'	93	4.1	3.8	3.0
	12.5'	58	4.8	4.8	12.5'	40	6.1	5.4	7.0	6.0'	43	6.7	4.0	8.0										
FLOOD	5.0'	190	2.9	2.9	5.0'	130	3.5	3.1	2.0	3.0'	113	3.4	2.7	3.0	3.0'	340	2.3	1.8	1.0	4.0'	208	2.8	2.6	2.0
	7.5'	85	4.3	4.3	7.5'	58	5.2	4.8	3.0	4.0'	64	4.6	3.5	4.0	4.0'	133	3.5	3.1	2.0	6.0'	93	4.1	3.8	3.0
	10.0'	48	5.7	5.7	10.0'	34	6.8	6.4	5.0	5.0'	41	5.8	4.4	5.0	5.0'	254	2.3	2.0	1.0	6.0'	138	3.2	3.0	2.0
	12.5'	31	7.2	7.2	12.5'	22	8.5	8.0	6.0	6.0'	29	7.0	5.2	7.0	5.0'	93	3.9	3.5	2.0	6.0'	64	4.7	4.5	2.0
WIDE FLOOD	5.0'	125	3.3	3.3	5.0'	92	3.9	3.5	2.0	3.0'	92	3.2	2.7	3.0	3.0'	254	2.3	2.0	1.0	4.0'	138	3.2	3.0	2.0
	7.5'	56	5.0	5.0	7.5'	41	5.6	5.4	3.0	4.0'	52	4.3	3.6	4.0	4.0'	93	3.9	3.5	2.0	6.0'	64	4.7	4.5	2.0
	10.0'	32	6.7	6.7	10.0'	23	7.6	7.3	4.0	5.0'	34	5.3	4.6	5.0										
	12.5'	20	8.5	8.5	12.5'	15	9.6	9.2	5.0	6.0'	23	6.5	5.5	6.0										

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C3MR-4  
4LT LED



TYPE:



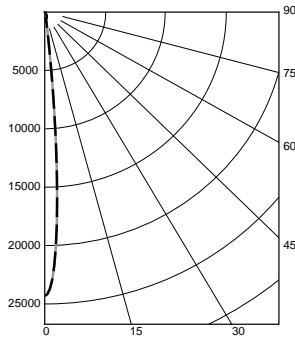
**FIXTURE DATA:**

Complete photometric data (ies format) available upon request.

CCT Correction Factors: 2700-83 = 0.96; 3500-83 = 1.02; 4000-83 = 1.04; 2200-90+ = 0.71; 2700-90+ = 0.80; 3000-90+ = 0.83; 3500-90+ = 0.87; Crisp = 0.65

**18W LED (3000K-83) Note: Data per head**

VERY NARROW SPOT (VNSP)  
DISTRIBUTION  
LTL #1170140

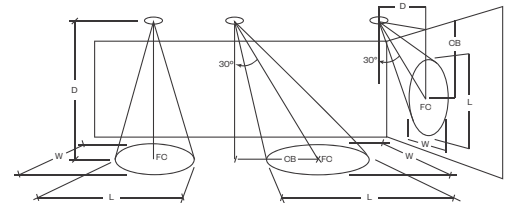


Candelas at Nadir	Deg	Candela
	0	24308
	5	8980
	15	527
	25	394
	35	131
	45	57

**APPLICATION DATA:**

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 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

VERY NARROW SPOT	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
	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

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C3MR-4  
4LT LED



TYPE:



## DIMMING COMPATIBILITY:

Amerlux® 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.

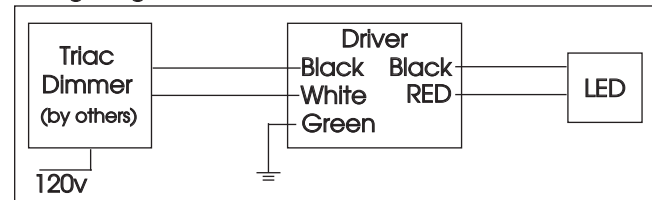
### TRIAC (Forward Phase) DIMMING (standard)

Utilizes "Standard" incandescent dimmers that are in wide use in installations across the US. Best for retrofit applications where Triac dimmers are installed.

#### Notes:

- 120v & 277v
- Dims down to less than 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

#### Wiring Diagram



#### Compatible Dimmers

##### Wall Box (Incandescent Style, Wattage as required)

Lutron "Diva"	Lutron "Vareo"
Lutron "Nova-T"	Lutron "Skylark"
Lutron "Maestro"	

##### Central System

ETC "SR" Rack w/D20 Module	ETC "DRD" Rack w/D20 Module
Lutron "GP" Panel	Lutron Grafix Eye QS

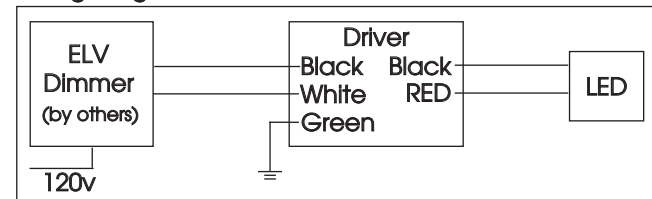
### ELV - Electronic Low Voltage (Reverse Phase) DIMMING (standard)

Utilizes specialized "ELV" dimmers. Best for New Construction applications

#### Notes:

- 120v & 277v
- Dims down to less than 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements

#### Wiring Diagram



#### Compatible Dimmers

##### Wall Box (ELV Style)

Lutron "Diva"	Lutron "Vareo"
Lutron "Nova-T"	Lutron "Skylark"
Lutron "Maestro"	
Leviton "Surslide"	Leviton "Vizio"

##### Central System

ETC "SR" Rack w/ELV10 Module	ETC "DRD" Rack w/ELV10 Module
Lutron "GP" Panel with PHPM-PA Interface	Lutron Grafix Eye QS with PHPM-PA Interface

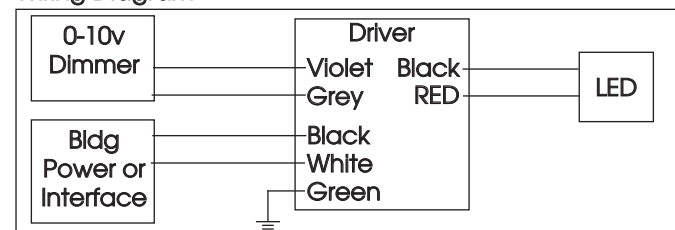
### 0-10V - DIMMING (-0-10V Option)

Integrates into a variety of building management and daylighting controls

#### Notes:

- 120v - 277v
- Dims down to less than 10% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

#### Wiring Diagram



#### Compatible Dimmers

##### Wall Box

Lutron "Diva" - DVTV with PP-120H Interface	Leviton Renoir II 0-10v
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##### Central System

Lutron Grafix Eye with GRX-TVI Interface
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4LT LED



TYPE:



## LUTRON HI-LUME / ECO-SYSTEM (-HILUME Option)

Integrates into a variety of building management and daylighting controls

### Notes:

- 120v or 277v
- Dims down to less than 5% light output
- May use 3-Wire or Ecosystem Control
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

### Compatible Dimmers

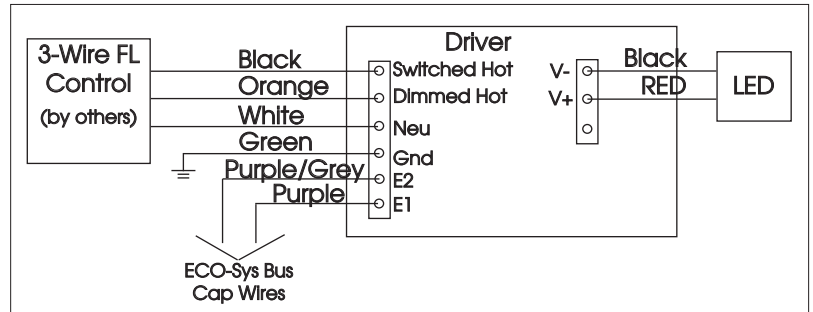
#### Wall Box (3-Wire Fluorescent)

DIVA  
Maestro  
Nova T  
Vareo

#### Central System

Lutron ECO-System compatible controls  
ETC "SR" Rack w/D20F Module  
ETC "DRD" Rack w/D20F Module

### 3-Wire Wiring Diagram



### ECO System Digital Control Wiring

