

# CYLINDRIX III MINI

## HORIZONTAL TRACK ACCENT LED

### APPLICATION

Accent and display lighting for retail, supermarket, commercial & hospitality environments

### CONSTRUCTION:

Complete die-cast construction  
No exposed wiring  
Powder coat paint

### ELECTRICAL:

Electronic constant current LED driver, 120v input  
ELV and Triac dimming standard, 120v  
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.**

### OPTICS:

0-180° tilt, 180° 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 (21w, 3000K): 1850 lm (89.6 lpw)  
CBCP (3000K): SP (21w) 13,578  
VNSP (18w only) 24,308

### MOUNTING:

Single circuit track  
**Note: Ceiling mounted track only**

### LABELING:

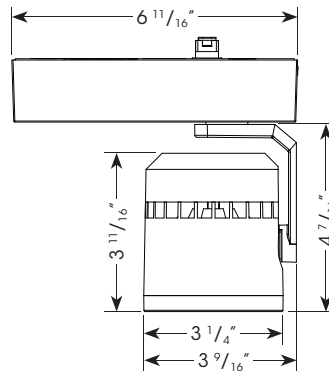
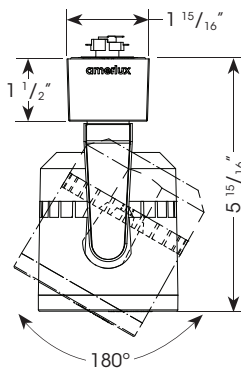


C3MH  
LED



PROJECT:

TYPE:



### ELECTRICAL

Electronic driver

	15w		18w		21w	
	System Watts	Amps	System Watts	Amps	System Watts	Amps
120v	15	0.13	18	0.15	21	0.18

### ORDERING INFORMATION:

Model	Wattage	Lamp Type	Finish	Mounting	Voltage	Beam Spread	Color Temp (CCT-CRI)	Options/Accessories
C3MH	15 21	LED	WT - white texture BT - black texture ST - silver texture	TS1 - Global GES 1cir/H-Style, 120v TJ1 - J-Style TL1 - L-Style	120	SP - spot, 14° VNF - very narrow flood, 18° NF - narrow flood, 23° FL - flood, 34° WF - wide flood, 44°  VNSP - very narrow spot, 8° (18w only)	27 - 2700-83 30 - 3000-83 35 - 3500-83 40 - 4000-83 229 - 2200-90+ 279 - 2700-90+ 309 - 3000-90+ 359 - 3500-90+ 409 - 4000-90+ 3CLA - 3K Class A CRISP - CrispWhite (not for VNSP)	SN - snoot LS - linear spread HEX - hexcel louver CB - cross blade, matte black, requires snoot SOL - solite beam softening lens
	18 (8° only)		(other RAL)					

Example: C3MH-21-LED-WT-TS1-120-FL-30

Cat #:

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



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HORIZONTAL TRACK ACCENT LED

C3MH  
LED



TYPE:

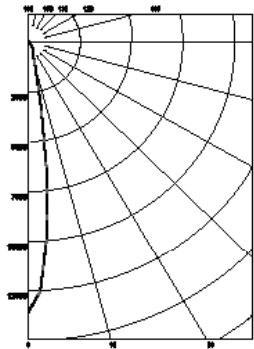


**FIXTURE DATA:** For 15W data, multiply by 0.71; For 18W data see next page; For 28W data, multiply by 1.23 Complete photometric data (ies format) available upon request.

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

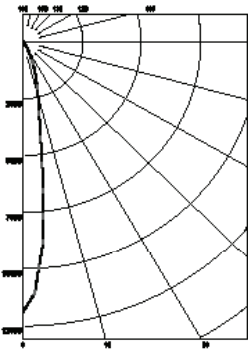
## 21W LED (3000K-83)

Spot (SP) Distribution  
LTL #1026701  
Lumens: 1,703



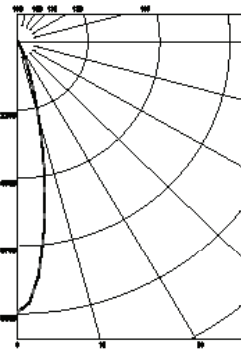
Candelas at Nadir	
Deg	Candela
0	13578
5	9865
15	1152
25	506
35	211
45	101

Very Narrow Flood (VNF)  
Distribution  
LTL #883522  
Lumens: 1,850



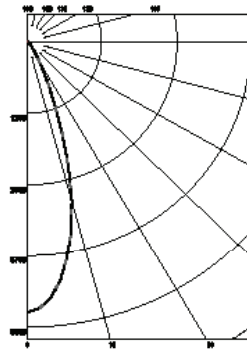
Candelas at Nadir	
Deg	Candela
0	11895
5	9054
15	2337
25	790
35	103
45	23

Narrow Flood (NF)  
Distribution  
LTL #1037438  
Lumens: 1,817



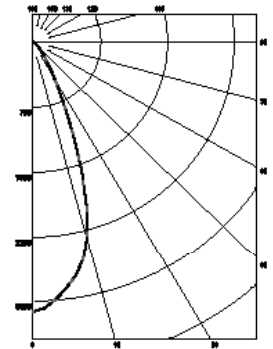
Candelas at Nadir	
Deg	Candela
0	8953
5	7795
15	2707
25	474
35	94
45	50

Flood (FL)  
Distribution  
LTL #1037439  
Lumens: 1,804



Candelas at Nadir	
Deg	Candela
0	4743
5	4504
15	2871
25	829
35	178
45	49

Wide Flood (WF)  
Distribution  
LTL #1037440  
Lumens: 1,679

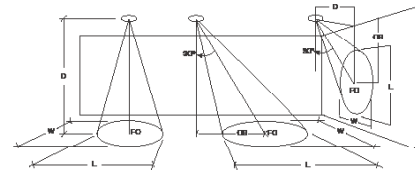


Candelas at Nadir	
Deg	Candela
0	3124
5	2988
15	2330
25	876
35	287
45	102

## 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	CB	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
	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'	518	1.5	1.2	2.0
	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'	334	1.8	1.3	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	6.0'	230	2.2	1.6	3.0
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
	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'	462	1.6	1.3	2.0
	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'	293	2.0	1.5	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	6.0'	206	2.4	1.8	3.0
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
	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'	426	1.9	1.5	2.0
	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'	249	2.5	2.2	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	6.0'	182	2.9	2.6	3.0
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
	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'	208	2.8	2.6	2.0
	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'	133	3.5	3.1	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	6.0'	93	4.1	3.8	3.0
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
	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'	138	3.2	3.0	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	5.0'	93	3.9	3.5	2.0
	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	6.0'	64	4.7	4.5	2.0

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C3MH  
LED



TYPE:



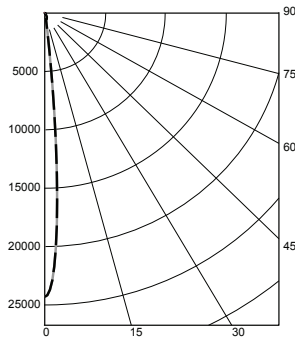
**FIXTURE DATA:**

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)**

Very Narrow Spot (VNSP)  
Distribution  
LTL #1170140  
Lumens: 1,096

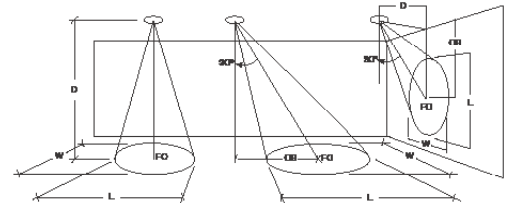


Candelas at Nadir	Candela
0	24308
5	8980
15	527
25	394
35	131
45	57

**APPLICATION DATA:**

**Notes and Definitions:**

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

# CYLINDRIX III MINI

HORIZONTAL TRACK ACCENT LED

C3MH  
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.

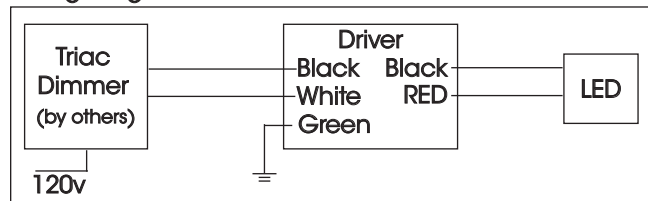
**TRIAC (Forward Phase) DIMMING (standard)**

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
- 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 "Nova-T"  
Lutron "Maestro"

Lutron "Vareo"  
Lutron "Skylark"

**Central System**

ETC "SR" Rack w/D20  
Module  
Lutron "GP" Panel

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

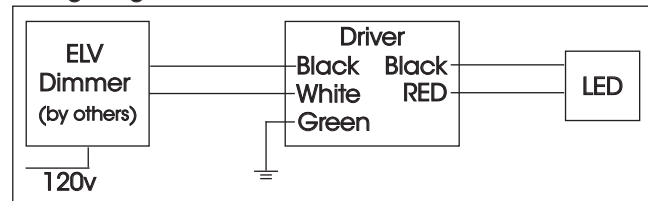
**ELV - Electronic Low Voltage (Reverse Phase) DIMMING (standard)**

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

**Notes:**

- 120v
- 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 "Nova-T"  
Lutron "Maestro"  
Leviton "Surslide"

Lutron "Vareo"  
Lutron "Skylark"  
Leviton "Vizio"

**Central System**

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

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