

# EVOKE®

## 4.75" SQUARE DOWNLIGHT LED

### APPLICATIONS:

Retail and commercial ambient lighting

### CONSTRUCTION:

20 ga. steel painted matte black  
Formed aperture plate with  $\frac{5}{16}$ " lip  
Integral adjustable locking mounting bars  
Thermally protected  
Die-cast lamp housing and heat sink

### REFLECTOR CONSTRUCTION:

Die-cast aluminum seamless self-flanged trim  
Painted finishes include matte white, matte black and matte silver with matte white flange  
Steel mounting ring with spring clip

### ELECTRICAL:

Electronic constant current LED driver, 120v or 277v input  
ELV or Triac dimming standard, 120v or 277v

0-10V, Lutron dimming or DALI driver options available

**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:

LED cluster:

Color Temp: 2200K, 2700K, 3000K, 3500K, 4000K

CRI: 83 (2700K, 3000K, 3500K, 4000K)

90+ (2200K, 2700K, 3000K, 3500K)

R9 Value: 11 (83 CRI), 55 (90+ CRI)

Life: 50,000 hrs

Lumen Maintenance: >70% of initial lumens @ 50,000 hrs

Lumen Output (3000K): up to 3903 lm, up to 82.7 lm/w

CBCP (3000K): up to 18,990

Beam Options: Spot 15°, Flood 25°, Wide Flood 40°

Optional solite aperture lens

### MOUNTING:

For use in sheetrock or T-grid ceilings, 1" thick standard  
Consult factory for thicker ceilings

26" Hanger bars included. Consult factory for hanger bars greater than 26"

### LABELING:

 approved to UL standard as tested by CSA

Damp location

Wet location option (adds clear lens and trim gasket)

IC/AT rated (27w only)

E4.75SDX-A15  
LED



PROJECT:

TYPE:

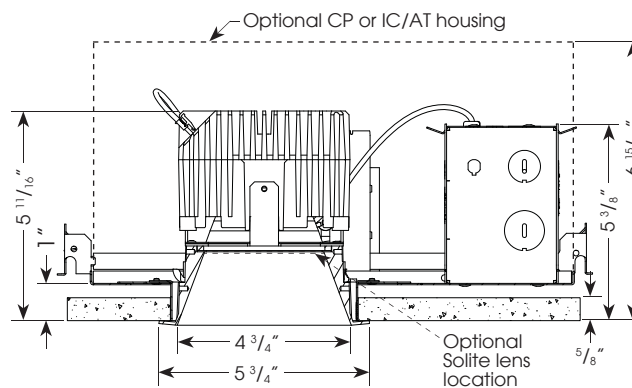
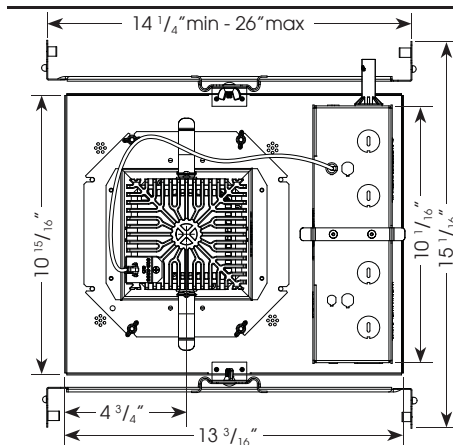


Electrostatic sensitive device,  
observe precautions for  
handling

Title 24  
Compliant

5 year limited  
warranty  
AMERLUX LED

(see website for details)



Ceiling Cut Out Dimension: 5 1/8" sq.

### ELECTRICAL

Electronic driver

	27w		36w		42w		48w	
	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120v	27	0.23	36	0.30	42	0.35	48	0.42
277v	27	0.10	36	0.13	42	0.15	48	0.18

Includes thermal protector, 2w power consumption

### ORDERING INFORMATION:

FRAME:					REFLECTOR:				
Model	Wattage	Lamp Type	Voltage	Options	Model	Aperture Finish/ Flange Finish	Beam Spread	Color Temp (CCT-CRI)	Options
E4.75SX-A15	27*	LED	120	0-10V - 0-10v 1% dimming	E4.75SDX-A15	MWW - matte white/ white	SP - spot, 15° FL - flood, 25°	27 - 2700-83 30 - 3000-83	SOL - solite aperture
	36*		277	HILUME - Lutron Hi-Lume®		MBW - matte black/ white	WF - wide flood, 40°	35 - 3500-83 40 - 4000-83	lens
	42			EcoSystem 3 wire, 1% dimming (42w max)		SLVW - silver/ white		229 - 2200-90+ 279 - 2700-90+	WET - wet location
	48			DALI - DALI 1% dimming (42w max)		MBB - matte black/ black		309 - 3000-90+ 359 - 3500-90+	
				EM - emergency battery pack with remote test switch (not avail- able for CP or IC/AT options)				3CLA - 3K Class A CRISP - CrispWhite	
				CP - Chicago Plenum (27w only)					
				IC/AT - insulated ceiling/air tight (27w only)					

Complete Unit Example: E4.75SX-A15-48-LED-120/E4.75SDX-A15-MWW-WF-30

Frame Example: E4.75SX-A15-48-LED-120

Reflector Example: E4.75SDX-A15-MWW-WF-30

Cat #:

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

# EVOKE®

## 4.75" SQUARE DOWNLIGHT LED

E4.75SDX-A15  
LED



TYPE:



FIXTURE DATA: For 27w data, multiply 36w data by 0.75; For 42w data, multiply 36w data by 1.17  
For 48w data, see next page

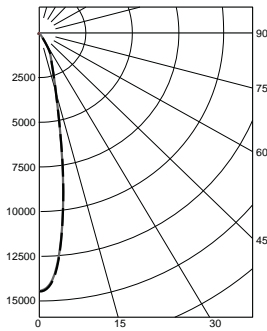
Complete photometric data (ies format) available upon request.

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

### 36W LED 3000K-83

SPOT  
DISTRIBUTION  
LTL # 1087053

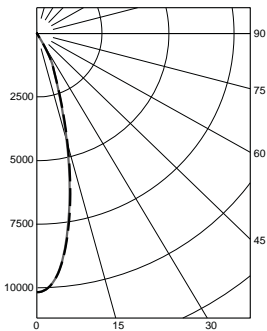
Lumen Output  
2899 lm; 79.1 lm/w



Candelas at Nadir	
Deg	Candela
0	14460
5	12180
15	3256
25	1367
35	68
45	55

FLOOD  
DISTRIBUTION  
LTL # 1087054

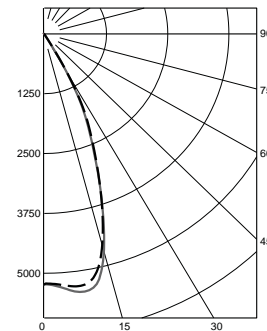
Lumen Output  
3093 lm; 84.3 lm/w



Candelas at Nadir	
Deg	Candela
0	10170
5	9437
15	4481
25	1483
35	78
45	39

WIDE FLOOD  
DISTRIBUTION  
LTL # 1087055

Lumen Output  
3108 lm; 84.7 lm/w

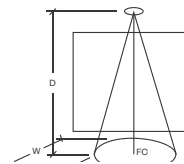


Candelas at Nadir	
Deg	Candela
0	5237
5	5351
15	4644
25	2048
35	163
45	43

### 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.



	D	FC	L	W
SPOT	5.0'	580	1.5	1.5
	7.5'	258	2.6	2.6
	10.0'	145	3.3	3.3
	12.5'	93	4.1	4.1
FLOOD	5.0'	408	2.4	2.4
	7.5'	182	3.5	3.5
	10.0'	102	4.7	4.7
	12.5'	66	5.8	5.8
WIDE FLOOD	5.0'	210	3.7	3.7
	7.5'	95	5.6	5.6
	10.0'	54	7.4	7.4
	12.5'	34	9.3	9.3

# EVOKE®

## 4.75" SQUARE DOWNLIGHT LED

E4.75SDX-A15  
LED



TYPE:



**FIXTURE DATA:**

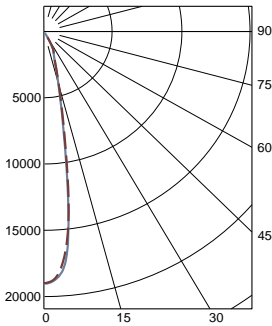
Complete photometric data (ies format) available upon request.

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

**48W LED 3000K-83**

SPOT  
DISTRIBUTION  
LTL # 1087052

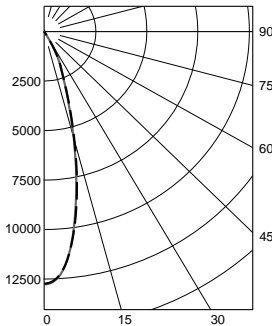
Lumen Output  
3738 lm; 79.2 lm/w



Candelas at Nadir	
Deg	Candela
0	18990
5	17600
15	4051
25	1629
35	81
45	64

FLOOD  
DISTRIBUTION  
LTL # 1087051

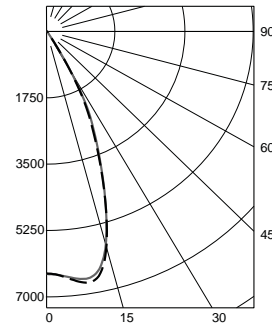
Lumen Output  
3887 lm; 82.4 lm/w



Candelas at Nadir	
Deg	Candela
0	12750
5	11880
15	5670
25	1877
35	91
45	47

WIDE FLOOD  
DISTRIBUTION  
LTL # 1087050

Lumen Output  
3903 lm; 82.7 lm/w

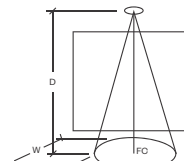


Candelas at Nadir	
Deg	Candela
0	6385
5	6506
15	5766
25	2738
35	221
45	53

**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 Footcandle			
		D	FC	L	W
SPOT	5.0'	762	1.5	1.6	
	7.5'	339	2.8	2.8	
	10.0'	191	3.4	3.4	
	12.5'	122	4.2	4.3	
FLOOD	5.0'	511	2.4	2.5	
	7.5'	228	3.5	3.6	
	10.0'	128	4.7	4.8	
	12.5'	82	5.8	5.9	
WIDE FLOOD	5.0'	257	3.8	3.8	
	7.5'	116	5.7	5.7	
	10.0'	66	7.5	7.5	
	12.5'	42	9.5	9.5	

# EVOKE®

4.75" SQUARE DOWNLIGHT LED

E4.75SDX-A15  
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.

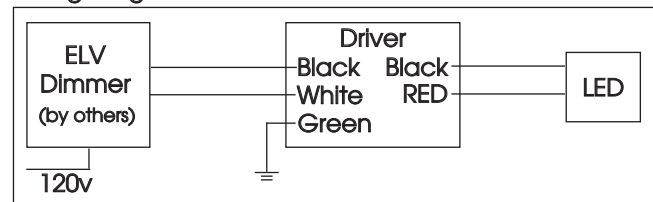
### ELV - Electronic Low Voltage (Reverse Phase) DIMMING (standard)

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

#### Notes:

- 120v or 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 "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

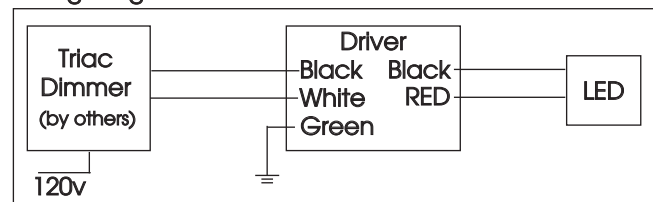
### TRIAC (Forward Phase) DIMMING (standard)

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 or 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 "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

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4.75" SQUARE DOWNLIGHT LED

E4.75SDX-A15  
LED



TYPE:



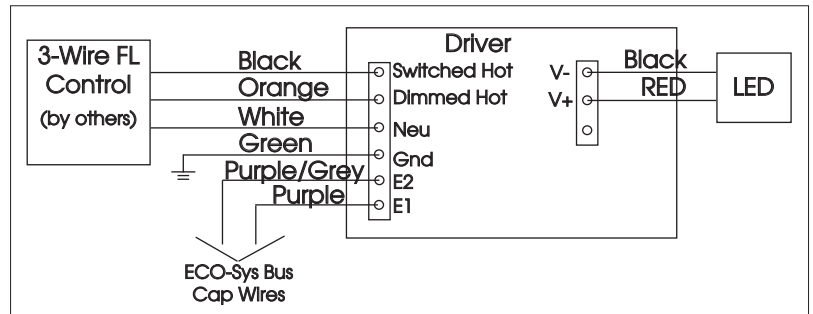
## LUTRON HI-LUME / ECO-SYSTEM (-HILUME Option)

Integrates into a variety of building management and daylighting controls

### Notes:

- 120v or 277v
- Dims down to less than 1% light output
- May use 3-Wire or Ecosystem Control
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

### 3-Wire Wiring Diagram



### Compatible Dimmers

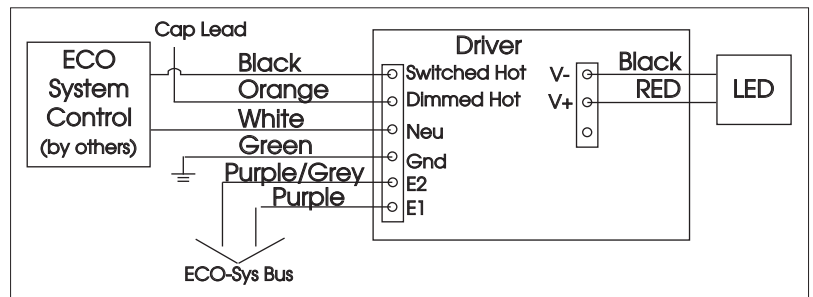
#### Wall Box (3-Wire Fluorescent)

DIVA  
Maestro  
Nova T  
Vareo

#### Central System

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

### ECO System Digital Control Wiring



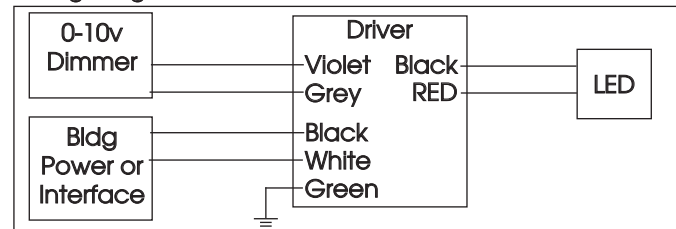
## 0-10V - DIMMING (-0-10V Option)

Integrates into a variety of building management and daylighting controls

### Notes:

- 120v - 277v
- Dims down to less than 1% 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" - DTV with PP-120H Interface

Leviton Renoir II 0-10v

#### Central System

Lutron Grafix Eye with GRX-TVI Interface