

# Classix® 6"

## 6" Round Downlight



PROJECT:

TYPE:

### Features

The Classix downlight shines new light on your bigger jobs. With a unique Amerlux® blend of architectural form and function, Classix performs perfectly in large retail and commercial spaces. Designed for higher ceilings, this downlight features high output, various beam options, and an optional commercial grade lens.



### Product Overview

Type: Recessed Round Downlight  
 Wattage: 25W, 34W, 45W, 52W  
 Color Temp: 2700K, 3000K, 3500K, 4000K  
 CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)  
 90+ typ. (2700K, 3000K)  
 CrispWhite & 3K Class A LEDs available  
 Dimming: TRIAC & ELV, 5% Dim, 120/277VAC  
 0-10V, 1% Dim, 120/277VAC  
 DALI, 1% Dim, 120/277VAC

### Certifications



### Fixture Summary

#### Fixture Type

Round	New Construction	Remodeler	Trim
Yes	Yes	Yes	Yes

#### Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
25	1970	79	11,136	3000K-83
34	2530	74.4	14,049	3000K-83
45	3207	71.2	17,809	3000K-83
52	3563	68.5	19,788	3000K-83

Data is based on 52W 3000K-83 120V IES files available on website.

Data is Spot optic. See pg 5-6 for other beam spreads.

#### Electrical Data

	25W		34W		45W		52W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	25	0.21	34	0.28	45	0.38	52	0.43
277V	25	0.09	34	0.12	45	0.16	52	0.19

Electronic constant current LED driver.

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## Ordering Information - Housing/Frame

1	2	3	4	5
1 Model	2 Wattage	3 Voltage	4 Driver (for non-dimming, select LE/TE option)	5 Options/Accessories
For New Construction <b>CLX-R6-NC-A17</b> (New Construction)	25 34 45 52	120 277	LE/TE TRIAC/ELV dimming, 5% dim 0-10V 0-10V dimming, 1% dim DALI DALI dimming, 1% dim (25W, 34W & 45W only)	EM emergency battery pack with remote test switch (not available for use with REM option) HB49 hanger bars from min 29" to max 49" (not available for use with REM option) Note: 26" hanger bars are included as standard. Choose <b>HB49</b> option above for larger mounting spaces only.
For Existing Ceilings <b>CLX-R6-REM-A17</b> (Remodeler)				

## Ordering Information - Trim

CLX-RD6-A17	1	2	3	4
1 Model	2 Finish	3 Beam Spread	4 Color Temp	
CLX-RD6-A17	SDW semi-diffuse, white flange SDC semi-diffuse, clear flange (flange finish matches cone finish)	SP spot, 15° FL flood, 25° WF wide flood, 40°	83 CRI 27 2700K-83 30 3000K-83 35 3500K-83 40 4000K-83	90+ CRI 279 2700K-90+ 309 3000K-90+ CRISP CrispWhite 3CLA 3K Class A

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### Specifications

#### Application

Retail, commercial and hospitality ambient lighting

#### Construction

20 ga. galvanized steel frame  
18 ga. galvanized steel splice housing and hanger brackets (*not for Remodeler version*)  
Passive cooling  
Extruded aluminum heat sink

#### Optical

Spun aluminum semi-diffuse aperture cone  
Spun aluminum upper reflector

#### LED

Color Temp Options: 2700K, 3000K, 3500K, 4000K, CRISP, Class A  
CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)  
90+ typ. (2700K, 3000K)  
CrispWhite\* and 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

\* **CrispWhite**: CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color that is pleasing to the eye. It creates the most impactful lighting ever available, 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: 25W, 34W, 45W, 52W

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.**

#### Drivers

**LE/TE** - Leading Edge (*Triac, Forward Phase*) or Trailing Edge (*ELV, Reverse Phase*)

0-10V and DALI systems also available

*See pages 7-8 for more dimming information*

#### Finish (Trim)

Wet paint

#### 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

Damp location

#### Warranty

5 year limited warranty

#### Emergency Battery Pack (EM)

IOTA ILB-CP05 Emergency battery pack with remote test switch, output of 5W (*approx. 300 lumens*) for 90 minutes

# Classix® 6"

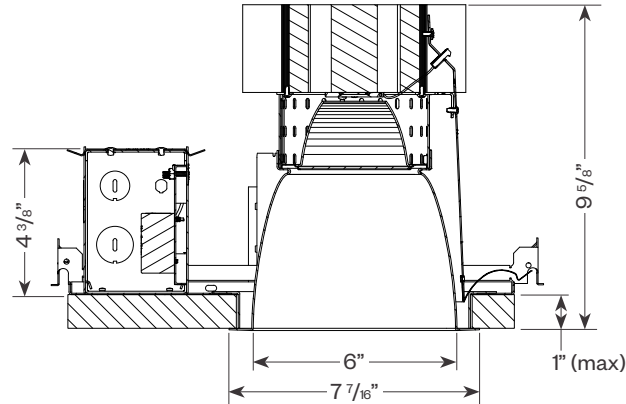
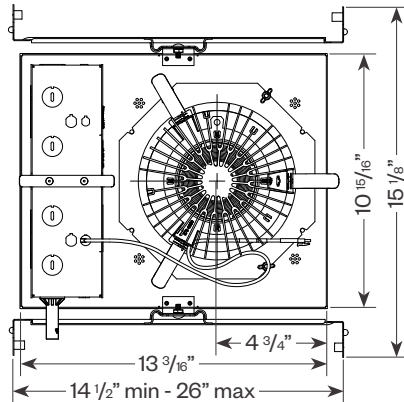
6" Round Downlight



PROJECT:

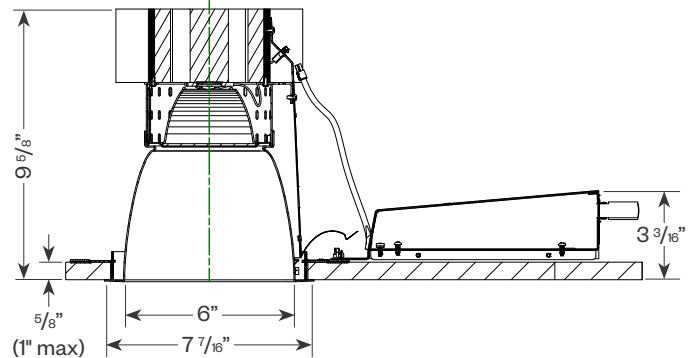
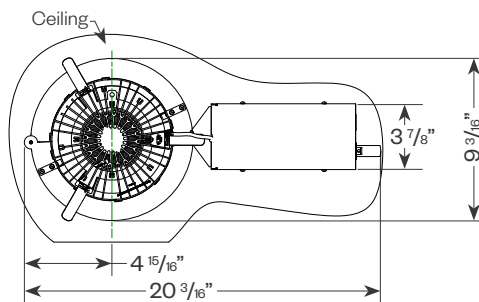
TYPE:

## Product Details - New Construction



Ceiling Cut Out: 7" dia.

## Product Details - Remodeler



Ceiling cut out: 7" dia.

# Classix® 6"

6" Round Downlight



PROJECT:

TYPE:

## Performance Data

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

Wattage:	25W	34W	45W
Factor:	1.0	1.4	1.8

For 52W data see next page

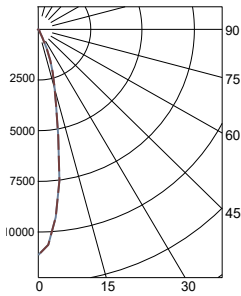
CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	CRISP	3CLA
Factor:	0.96	1.0	1.02	1.04	0.80	0.83	0.65	0.70

### 25W LED (3000K-83)

Spot Distribution

LTL #1026868

Lumens: 1,970; 79 Lm/W  
CBCP: 11,136



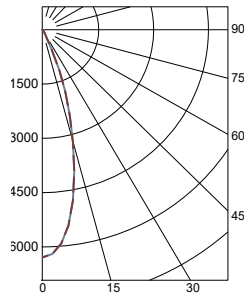
Candelas at Nadir

Deg	Candela
0	11136
5	9304
15	2887
25	440
35	93
45	39

Flood Distribution

LTL #1026867

Lumens: 1,866; 74.9 Lm/W  
CBCP: 6,290



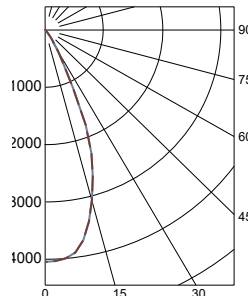
Candelas at Nadir

Deg	Candela
0	6290
5	5927
15	3221
25	597
35	105
45	37

Wide Flood Distribution

LTL #1026866

Lumens: 1,951; 78.3 Lm/W  
CBCP: 4,046



Candelas at Nadir

Deg	Candela
0	4046
5	3998
15	3060
25	1114
35	197
45	37

## Application Data

### Notes and Definitions:

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

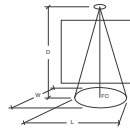
D=Distance to floor or wall.

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'	444	1.6	1.6
	7.5'	198	2.7	2.7
	10.0'	112	3.4	3.4
	12.5'	72	4.3	4.3

	0° Aiming Angle Horizontal Footcandles			
	D	FC	L	W
FLOOD	5.0'	252	2.6	2.6
	7.5'	112	3.8	3.8
	10.0'	63	5.1	5.1
	12.5'	41	6.4	6.4

	0° Aiming Angle Horizontal Footcandles			
	D	FC	L	W
WIDE FLOOD	5.0'	162	3.5	3.5
	7.5'	72	5.2	5.2
	10.0'	41	7.0	7.0
	12.5'	26	8.7	8.7

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PROJECT:

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## Performance Data

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

Wattage:	34W	45W	52W
Factor:	0.71	0.90	1.0

For 25W data see previous page

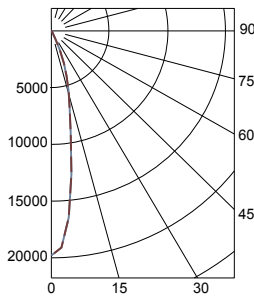
CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	CRISP	3CLA
Factor:	0.96	1.0	1.02	1.04	0.80	0.83	0.65	0.70

### 52W LED (3000K-83)

Spot Distribution

LTL #1026865

Lumens: 3,563; 68.5 Lm/W  
CBCP: 19,788



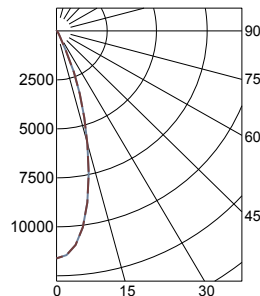
Candelas at Nadir

Deg	Candela
0	19788
5	16499
15	5520
25	813
35	173
45	73

Flood Distribution

LTL #1026863

Lumens: 3,457; 66.4 Lm/W  
CBCP: 11,614



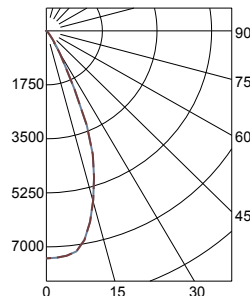
Candelas at Nadir

Deg	Candela
0	11614
5	10971
15	5987
25	1089
35	193
45	68

Wide Flood Distribution

LTL #1026864

Lumens: 3,607; 69.3 Lm/W  
CBCP: 7,373



Candelas at Nadir

Deg	Candela
0	7373
5	7315
15	5677
25	2088
35	350
45	70

## Application Data

### Notes and Definitions:

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

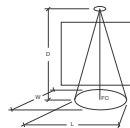
D=Distance to floor or wall.

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'	790	1.6	1.6
	7.5'	352	2.7	2.7
	10.0'	198	3.4	3.4
	12.5'	127	4.1	4.1

	0° Aiming Angle Horizontal Footcandles			
	D	FC	L	W
FLOOD	5.0'	465	2.6	2.6
	7.5'	207	3.8	3.8
	10.0'	117	5.2	5.2
	12.5'	75	6.5	6.5

	0° Aiming Angle Horizontal Footcandles			
	D	FC	L	W
WIDE FLOOD	5.0'	296	3.5	3.5
	7.5'	132	5.3	5.3
	10.0'	74	7.0	7.0
	12.5'	48	8.9	8.9

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### Dimming Compatibility

Amerlux® Classix® 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

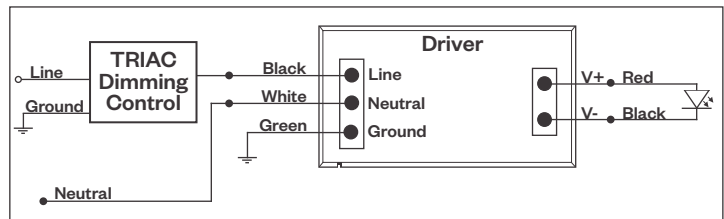
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

##### 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

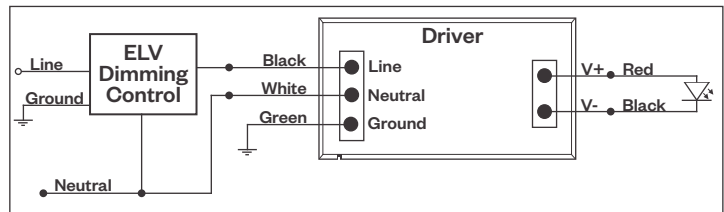
Utilizes specialized "ELV" dimmers.

##### 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.



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### Dimming Compatibility (continued)

Amerlux® Classix® 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 ---

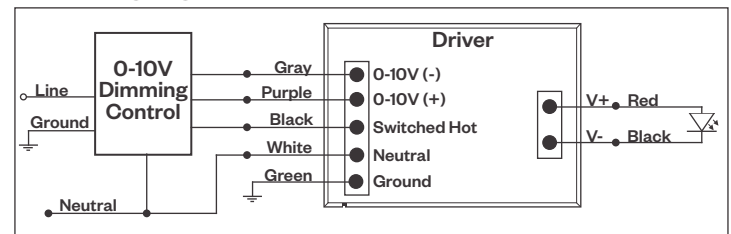
#### 0-10V Dimming

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

##### Central System

Lutron "Diva" - DVSTV	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface
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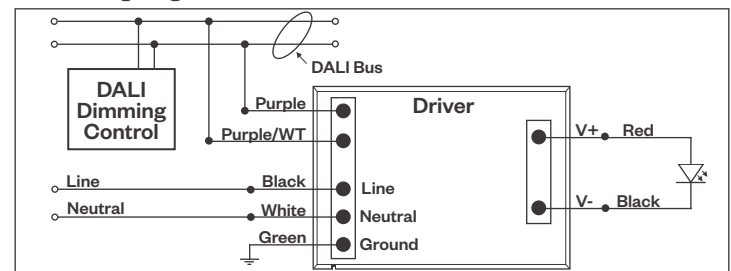
#### DALI Dimming

Digital control protocol allows individual fixture control

##### Notes:

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

#### DALI Wiring Diagram



#### Compatible Dimmers†:

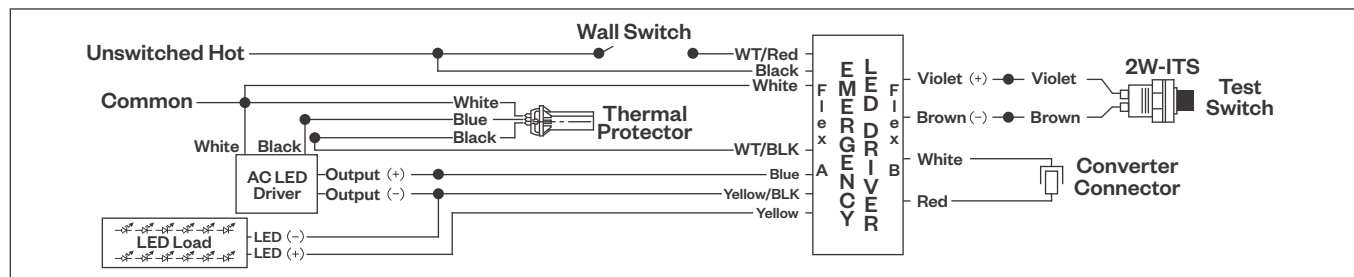
##### Wall Box (3-Wire Fluorescent)

##### Central System

Leviton CD250 Controller	Dynalite
	Fifth Light

### Emergency Battery Pack

#### 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.