

EVOKE® 2.9" HP

2.9" ROUND PINHOLE ADJUSTABLE LED

APPLICATION:

Commercial and retail accent and display lighting

HOUSING CONSTRUCTION:

20 ga. steel painted matte black
Formed aperture plate with 5/8" lip (GB-standard)
Integral adjustable locking mounting bars
Thermally protected

PINHOLE TRIM CONSTRUCTION:

Die-cast aluminum faceplate painted matte white
Die-cast knife edge baffle painted matte black
Spring steel mounting clips

OPTICS:

Cam adjustment mechanism provides lockable 0-35° 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)

Amerlux Crisp White technology available (18w max)

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

Binning: 3 MacAdam (SDCM)

Life: 50,000 hrs

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

Lumen Output (20w, 3000K): up to 745 lm; 37.8 lm/w

CBCP (20w, 3000K): up to 4131 max.

ELECTRICAL:

Electronic constant current LED driver, 120v or 277v input
(voltage specific TP on 18w & 20w)
ELV and Triac dimming standard, 120v or 277v.
0-10v, Lutron & DALI systems 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.**

MOUNTING:

Specify ceiling mounting:

GRID: 1" deep aperture collar

GB (Gyp. Board): 5/8" deep aperture collar

Extra thick ceiling ring available for ceilings over 1" thick,
consult factory

Note: Tilt adjustment reduced to 15° in ceilings 1 1/4" thick

LABELING:



Damp location

IC/AT rated (11w only)

E2.9RPA-HP-A15
LED



PROJECT:

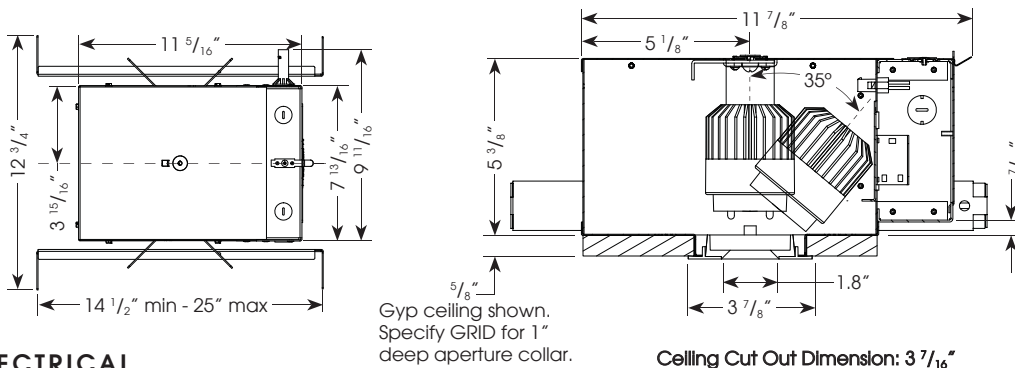
TYPE:



Electrostatic sensitive device,
observe precautions for
handling

5 year limited
warranty
AMERLUX LED

(see website for details)



ELECTRICAL

Electronic driver

	11w		18w*		20w*	
	System Watts	Amps	System Watts	Amps	System Watts	Amps
120v	11	0.09	18	0.15	20	0.17
277v	11	0.04	18	0.06	20	0.07

* 2w thermal protector included on 18w & 20w

ORDERING INFORMATION:

Housing Model	Wattage	Lamp Type	Voltage	Beam Spread	Ceiling Mounting	Color Temp (CCT(K)-CRI)	Options	Reflector Model	Aperture Finish
E2.9RA-HP-A15	11	LED	120	SP - spot, 15°	GB - 5/8" deep collar	27 - 2700-83	HILUME - Lutron Hi-lume®	E2.9RPA-HP-A15	Faceplate with black baffle
	18		277	NF - narrow flood, 20°	GRID - 1" deep collar	30 - 3000-83	A-series dimming (Ecosystem or 3 wire)		black baffle
	20			MFL - medium flood, 24°		35 - 3500-83	0-10V - 0-10v dimming		MW - matte white
				FL - flood, 28°		40 - 4000-83	DALI - DALI driver		
				WF - wide flood, 45°	(other, consult factory)	229 - 2200-90+	CP - Chicago Plenum (CCEA)		
						279 - 2700-90+	IC/AT - insulated ceiling/air tight (11w only)		
						309 - 3000-90+			
						CRISP - CrispWhite (18w max)			

Complete Unit Specification: E2.9RA-HP-A15-20-LED-120-SP-GB-30/E2.9RPA-HP-A15-MW

Housing Only: E2.9RA-HP-A15-20-LED-120-SP-GB-30

Reflector Only: E2.9RPA-HP-A15-MW

Cat #:

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

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E2.9RPA-HP-A15
LED



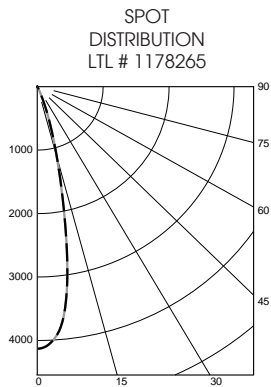
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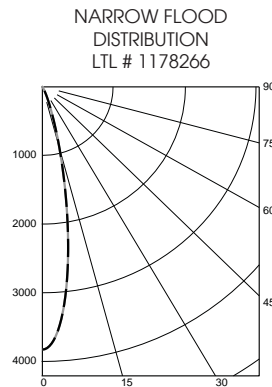
FIXTURE DATA: For 11w data, multiply by 0.55; For 18w data, multiply by 0.9

Complete photometric data (ies format) available upon request.

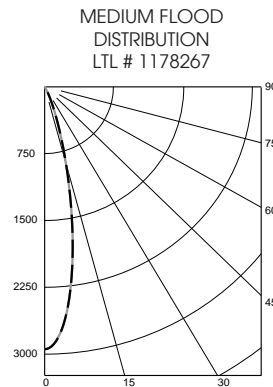
20W LED



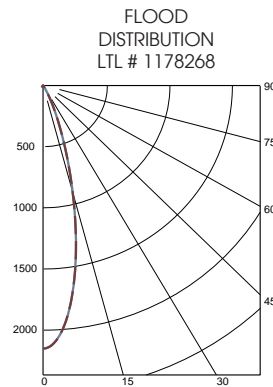
Candelas at Nadir	
Deg	Candela
0	4131
5	3867
15	1199
25	110
35	7
45	1



Candelas at Nadir	
Deg	Candela
0	3828
5	3291
15	921
25	108
35	9
45	1



Candelas at Nadir	
Deg	Candela
0	2945
5	2608
15	932
25	141
35	11
45	1

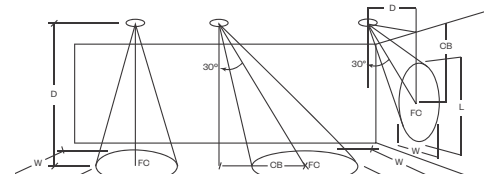


Candelas at Nadir	
Deg	Candela
0	2151
5	1964
15	919
25	196
35	17
45	2

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'	135	2.3	2.3
	7.5'	68	3.2	3.2
	10.0'	39	4.1	4.1
	12.5'	26	5.1	5.1
NARROW FLOOD	5.0'	113	2.1	2.1
	7.5'	59	3.0	3.0
	10.0'	35	3.7	3.7
	12.5'	23	4.7	4.7
MEDIUM FLOOD	5.0'	91	2.4	2.4
	7.5'	46	3.2	3.2
	10.0'	27	4.1	4.1
	12.5'	18	5.1	5.1
FLOOD	5.0'	70	2.6	2.6
	7.5'	35	3.6	3.6
	10.0'	20	4.8	4.8
	12.5'	13	5.9	5.9

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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.

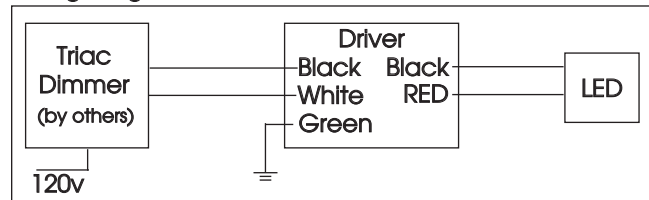
TRIAC (Forward Phase) DIMMING (standard)

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 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 "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

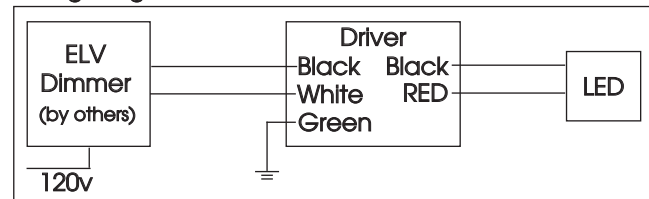
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (standard)

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

Notes:

- 120v 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 "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

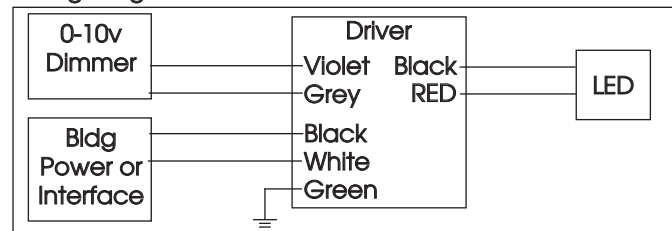
0-10V - DIMMING (-0-10V Option)

Integrates into a variety of building management and daylighting controls

Notes:

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

Compatible Dimmers

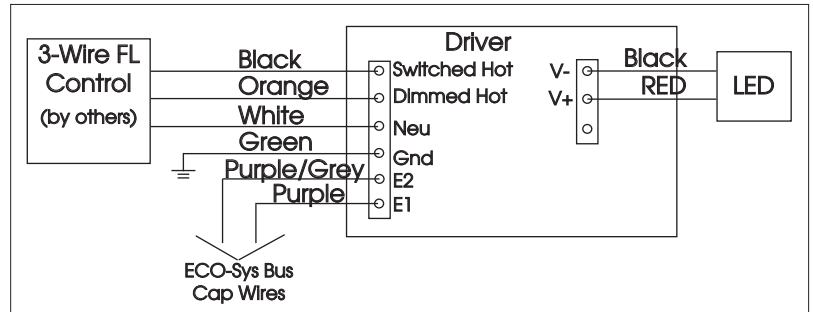
Wall Box (3-Wire Fluorescent)

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

