

HORNET® HIGH POWER

SEMI-RECESSED MULTIPLE 3 LIGHT LED

HORNET-HP-SR-
A14-3
3LT LED

APPLICATION:

Accent and display lighting for retail, commercial and hospitality environments

CONSTRUCTION:

Stamped steel mounting frame w/integral mounting bars
Thermally protected
Steel driver housing
Steel upper housing and laser cut trim ring
Complete die-cast optical head construction
No exposed wiring
Powder coat paint

ELECTRICAL:

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


OPTICS:

0-40° 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)
97 typ. (2200K, 2700K, 3000K)
Crisp White LED available
R9 Values: 11 (83CRI), 92 (97CRI)
Life: 50,000 hrs
Binning: 3 MacAdam
Lumen Maintenance: >70% of initial lumens @ 50,000 hrs
Lumen Output (18w, 3000K): 1164 SP, 1099 NF, 1093 FL, 1083 WF

MOUNTING:

For use in T-grid or sheet rock ceilings, max thickness 1"

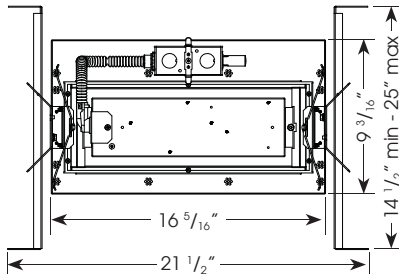
LABELING:

 pending approval to UL standards as tested by CSA
For indoor use only

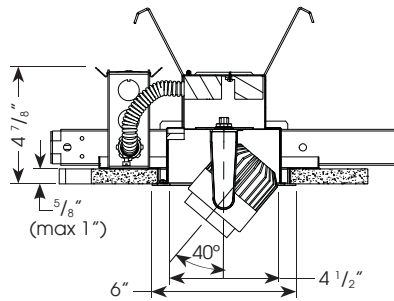
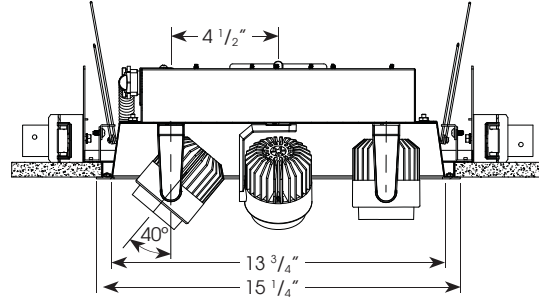


PROJECT:

TYPE:



Ceiling Cut Out Dimension: 5 9/16" x 14 13/16"

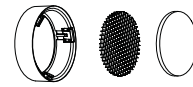


ELECTRICAL

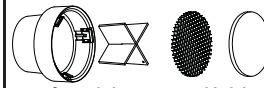
Electronic driver

	3x16w			3x18w		
	System	Watts	Amps	System	Watts	Amps
120v	48	0.40		54	0.45	
277v	48	0.17		54	0.19	

Accessory Options:



Accessory Holder



Snoot Accessory Holder

5 year limited
warranty
AMERLUX LED
(see website for details)

ORDERING INFORMATION:

FRAME Model	# Heads	Lamp Type	Voltage	Options/Accessories
HORNET-HP-R/SR-FRAME	3	LED	120 277	HILUME - Lutron Hi-lume® dimming driver 0-10V - 0-10v dimming

Complete Unit Specification:
HORNET-HP-R/SR-FRAME-3-LED-120/HORNET-HP-SR-TRIM-A14-3-18-LED-WT-120-277-FL-FL-FL-WT-3000

Frame Only: HORNET-HP-R/SR-FRAME-3-LED-120

Trim Only: HORNET-HP-SR-TRIM-A14-3-18-LED-WT-120-277-FL-FL-FL-WT-3000

TRIM Model	# Heads	Wattage	Lamp Type	Housing/ Head Finish	Voltage	Beam Spreads*			Trim Finish	Color Temp	Options/Accessories
						Head 1	Head 2	Head 3			
HORNET-HP-SR-TRIM-A14	3	16	LED	WT - white texture	120-277	SP	SP	SP	WT - white texture	83 CRI	SNAH - snoot accessory holder, 1" length, matte black interior, specify exterior color (WT, BT, ST), accepts cross blade plus 2 additional forms of media AH - accessory holder, specify finish (WT, BT, ST), accepts 2 forms of media CB - cross blade, matte black finish, requires snoot HEX - hexcell louver (1/8" x 1/8"), requires AH or SNAH HILUME - Lutron Hi-lume® dimming driver 0-10V - 0-10v dimming CRISP - Crisp White CP - Chicago plenum
						NF	NF	NF	2700		
						MFL	MFL	MFL	3000		
						FL	FL	FL	3500		
						WF	WF	WF	4000		
						VWF	VWF	VWF	97 CRI		
						LS	LS	LS	2200-97		
									2700-97		
									3000-97		
									(other RAL)		

*SP - spot 15°, NF - narrow flood 22°, MFL - medium flood 25°, FL - flood 28°, WF - wide flood 45°, VWF - very wide flood 60°, LS - linear spread 60°x10°

Cat #:

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



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TYPE:

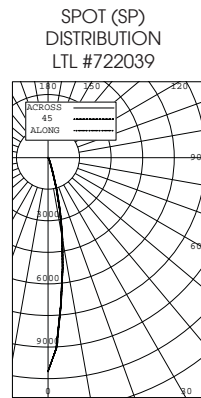


FIXTURE DATA: For 16w data, multiply by .88

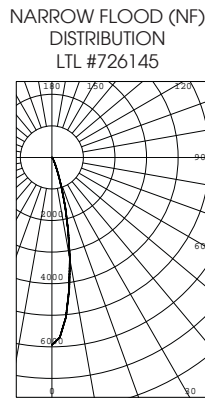
Complete photometric data (ies format) available upon request.

Note: Data per head

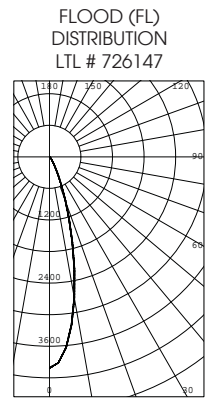
18W LED



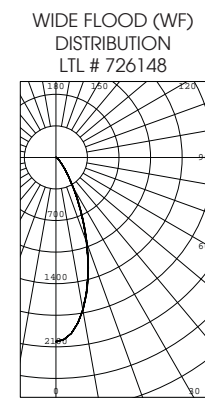
Candelas at Nadir	
Deg	Candela
0	10157
5	7018
15	1541
25	169
35	63
45	16



Candelas at Nadir	
Deg	Candela
0	5936
5	5080
15	1633
25	261
35	73
45	27



Candelas at Nadir	
Deg	Candela
0	4015
5	3641
15	1686
25	414
35	95
45	35

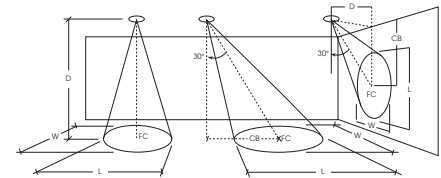


Candelas at Nadir	
Deg	Candela
0	2043
5	1959
15	1370
25	646
35	211
45	66

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'	253	1.9	1.9	5.0'	187	2.3	2.2	3.0	3.0'	119	3.3	2.1	5.0	3.0'	358	1.8	1.5	2.0
	7.5'	138	2.6	2.6	7.5'	96	3.2	2.9	4.0	4.0'	76	4.1	2.6	6.0	4.0'	260	2.1	1.7	2.0
	10.0'	85	3.2	3.2	10.0'	56	4.2	3.7	6.0	5.0'	50	5.1	3.1	8.0	5.0'	181	2.5	2.1	3.0
	12.5'	57	3.8	3.8	12.5'	39	5.0	4.4	7.0	6.0'	36	6.2	3.6	9.0	6.0'	133	2.8	2.5	3.0
NARROW FLOOD	5.0'	184	2.2	2.2	5.0'	130	2.7	2.5	3.0	3.0'	90	3.5	2.3	4.0	3.0'	271	2.0	1.6	2.0
	7.5'	94	3.0	3.0	7.5'	65	3.7	3.4	4.0	4.0'	55	4.5	3.0	6.0	4.0'	194	2.2	2.0	2.0
	10.0'	56	3.8	3.8	10.0'	38	4.9	4.3	5.0	5.0'	37	5.5	3.4	7.0	5.0'	128	2.8	2.5	3.0
	12.5'	37	4.8	4.8	12.5'	24	6.2	5.5	6.0	6.0'	26	6.7	4.2	8.0	6.0'	95	3.2	2.8	3.0
FLOOD	5.0'	137	2.6	2.6	5.0'	94	3.1	2.9	3.0	3.0'	76	3.6	2.5	4.0	3.0'	209	2.2	1.9	2.0
	7.5'	67	3.5	3.5	7.5'	46	4.4	4.0	4.0	4.0'	45	4.7	3.2	5.0	4.0'	148	2.5	2.4	2.0
	10.0'	39	4.7	4.7	10.0'	27	5.8	5.2	5.0	5.0'	29	5.6	3.9	6.0	5.0'	93	3.2	2.9	3.0
	12.5'	25	5.7	5.7	12.5'	18	7.1	6.4	6.0	6.0'	20	7.1	4.7	8.0	6.0'	70	3.6	3.3	3.0
WIDE FLOOD	5.0'	78	3.3	3.3	5.0'	55	3.9	3.5	2.0	3.0'	49	4.0	3.1	3.0	3.0'	124	2.7	2.5	2.0
	7.5'	36	4.9	4.9	7.5'	26	5.7	5.3	3.0	4.0'	29	5.0	3.9	4.0	4.0'	87	3.2	3.0	2.0
	10.0'	20	6.4	6.4	10.0'	15	7.6	7.1	4.0	5.0'	19	6.2	4.9	5.0	5.0'	57	4.0	3.6	2.0
	12.5'	13	8.0	8.0	12.5'	10	9.5	8.9	5.0	6.0'	14	7.5	5.8	6.0	6.0'	39	4.7	4.4	3.0

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TYPE:



DIMMING COMPATIBILITY:

Amerlux® "Hornet" 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.

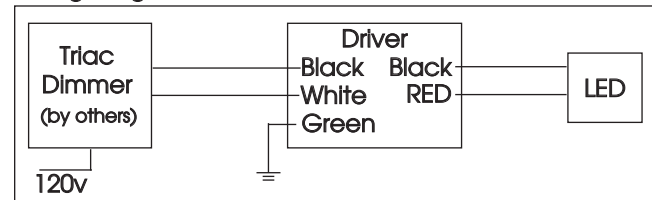
TRIAC (Forward Phase) DIMMING (standard)

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 "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

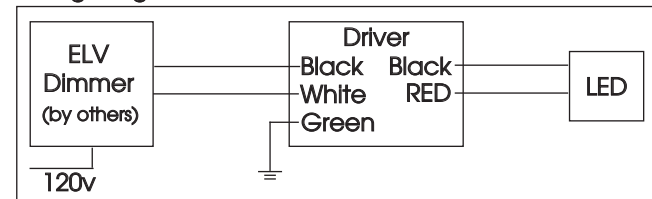
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (standard)

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

Notes:

- 120v 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

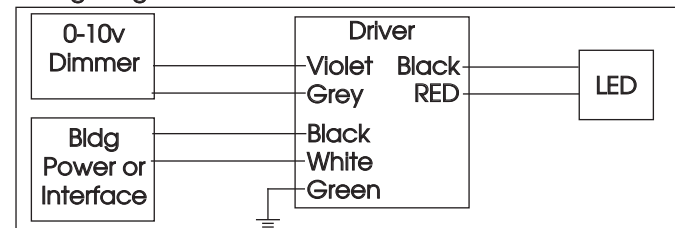
0-10V - DIMMING (-0-10V Option)

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

Central System

Lutron Grafix Eye with GRX-TVI Interface

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TYPE:



LUTRON HI-LUME / ECO-SYSTEM (-DIM-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

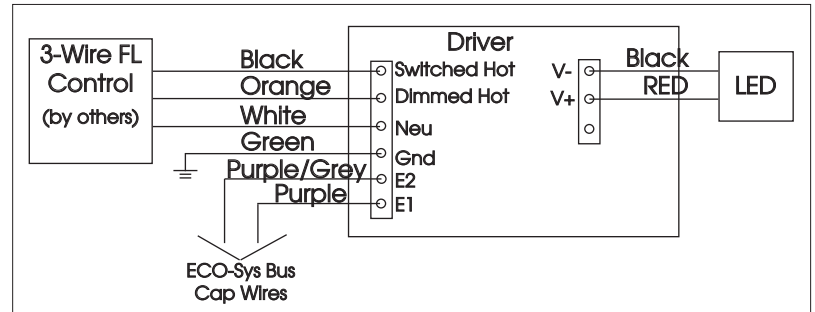
Wall Box (3-Wire Fluorescent)

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

