

Hornet® HP

Track Head



PROJECT:

TYPE:

Features

The Hornet® HP LED replaces the 20W ceramic metal halide fixture of the past. The Hornet HP's quality, energy efficient light source provides better maintained and more secure lumens, and consistent color rendering. Configured with vertical or horizontal driver housing.

Product Overview

Type: Track Accent & Display
Wattage: 11W, 16W, 18W, 20W
Color Temp: 2200K, 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)
90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)
CrispWhite & 3K Class A LEDs available
Dimming: TRIAC & ELV, 5% Dim, 120/277VAC

International version available, see website for spec sheet



Certifications



Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
11	1030	93.7	8,243	3000K-83
16	1451	102.2	11,610	3000K-83
18	1640	96.4	13,119	3000K-83
20	1785	88.3	14,280	3000K-83

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

Data is based on Spot optic. See pg 5 for other beam spreads.

Electrical Data

	11W		16W		18W		20W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	11	0.09	14.2	0.12	17	0.14	20.2	0.17
277V	11	0.04	14.2	0.05	17	0.06	20.2	0.07

Electronic constant current LED driver.

PROJECT:

TYPE:

Ordering Information

LE/TE								
1	2	3	4	5	6	7	8	9
1 Model	2 Wattage	3 Finish						
HORNET-HP (vertical)	11	WT white texture						
HORNET-HP-H (horizontal)	16	BT black texture						
	18	ST silver texture						
	20	Other finishes, consult factory						
4 Mounting	5 Voltage	6 Beam Spreads						
Vertical	120	SP spot, 15°						
TN1 Global GES 1cir/H-Style, 120V	277	NF narrow flood, 22°						
TEK Global TEK 2cir/2neut, 120V		MFL medium flood, 25°						
TN3 Global XTS 3cir, 120V		FL flood, 28°						
TN2 Global HTEK 2cir/2neut, 277V		WF wide flood, 40°						
CT J-Style 1 or 2 cir, 120V		VWF very wide flood, 60°						
LOL L-Style 1cir, 120V		LS linear spread lens, 60° x 10°						
CPR Capri 1cir, 120V								
C canopy, 120V or 277V								
CCL2-SOP C-clamp, black, with straight cord*, 6' 120V								
CCL2-CCP C-clamp, black, with coil cord*, 5' 120V								
Notes: *Black cord used for BT & ST finish. White cord used for WT finish.								
7 Color Temp	8 Driver	9 Options/Accessories						
83 CRI 90+ CRI	LE/TE TRIAC/ELV dimming	SNAH snoot accessory holder, 1" length, matte black interior, exterior finish matches fixture finish, accepts cross blade plus 2 additional forms of media						
27 2700K-83 229* 2200K-90+ CRISP* CrispWhite		AH accessory holder, finish matches fixture finish, accepts 2 forms of media						
30 3000K-83 279 2700K-90+ 3CLA* 3K Class A		HEX hexcell louver, 1/8"x1/8" (requires SNAH or AH)						
35 3500K-83 309 3000K-90+		SOL solite beam softening lens (requires SNAH or AH)						
40 4000K-83 359 3500K-90+		CB cross blade, matte black finish (requires SNAH)						
409 4000K-90+								
* Not available for 18W or 20W								

PROJECT:

TYPE:

Specifications

Application

Retail and Commercial accent and display lighting

Construction

Complete die-cast construction
No exposed wiring

Optical

0-180° tilt, 360° rotation
Beam Spreads: Spot, 15°; Narrow Flood, 22°; Medium Flood, 25°;
Flood, 28°; Wide Flood, 40°; Very Wide Flood, 60°;
Linear Spread, 60° x 10°

LED

Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K,
CRISP, Class A

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

90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)

CrispWhite* LED, 16W max

Class A** 3000K LED (high CRI, high gamut), 16W max

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

Binning: 3-step MacAdam ellipse (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: 11W, 16W, 18W, 20W

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.

Driver

LE/TE - Leading Edge (Triac, Forward Phase) or Trailing Edge (ELV, Reverse Phase) autosensing driver dims down to 5% on most dimming systems.

See dimming pages for more information.

Finish

Powder coat paint.

Standard Colors: White Texture, Black Texture, Silver Texture

Consult factory for custom RAL powder coat finishes

Mounting (options below depending on driver configuration)

Track, canopy and c-clamp.

See ordering information for all available options.

Note: Recommend track fixture mounting to horizontal surface mounted/pendant mounted track only

Certifications

Approved to UL standards as tested by CSA.

Intended for indoor use only.

Warranty

5 year limited warranty



Hornet® HP

Track Head

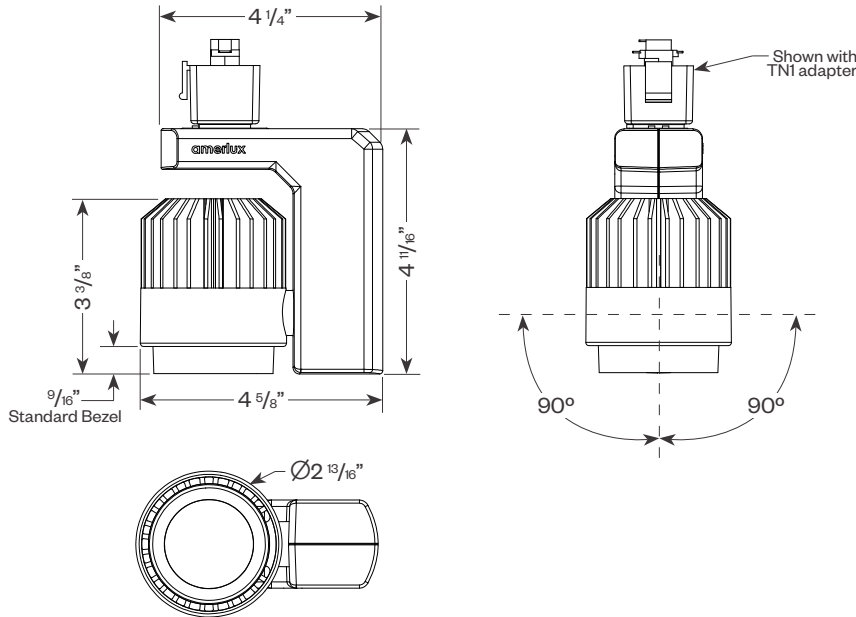


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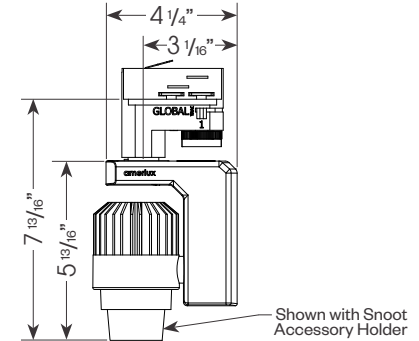
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Product Details

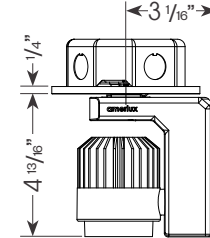
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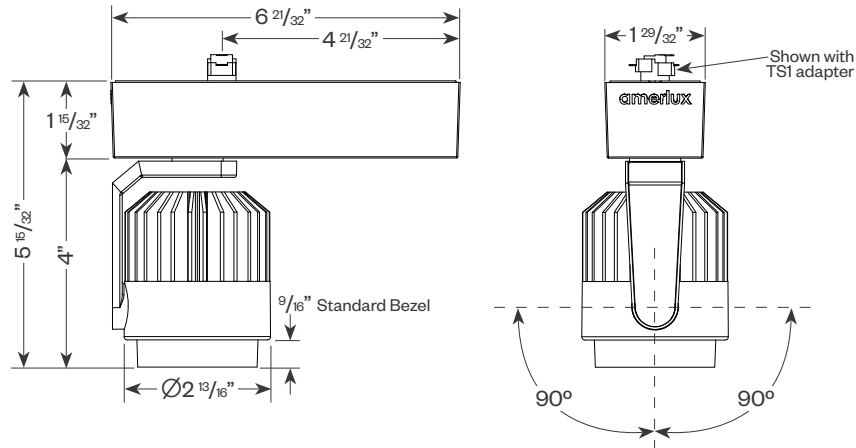
TEK/HTEK/TN3



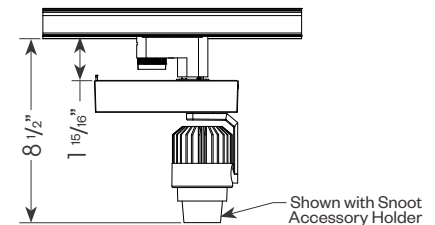
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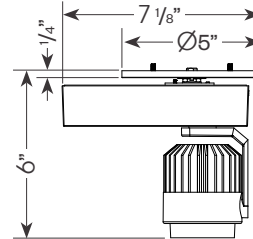
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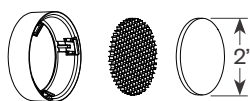
TEK/TN2



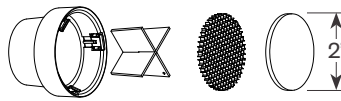
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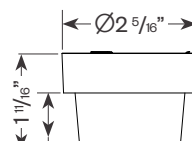
Accessories



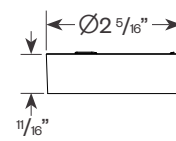
Accessory Holder
Hexcell Louver
Solite Lens



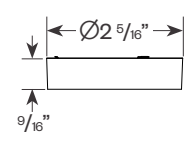
Snoot Accessory Holder
Cross Blade
Hexcell Louver
Solite Lens



Accessory Holder



Accessory Holder



Bezel (standard)



Delta Intelligent Building Technologies

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

TYPE:

Performance Data

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

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

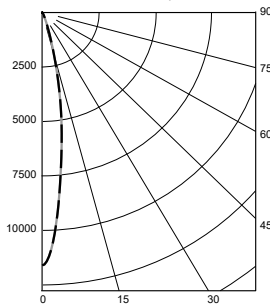
Wattage:	11W	16W	18W	20W
Factor:	0.71	1.0	1.13	1.23

CCT:	2200K-90+*	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP*	3CLA*
Factor:	0.71	0.80	0.83	0.87	0.90	0.65	0.70

* Not available for use
with 18W or 20W

16W LED, 3000K-83

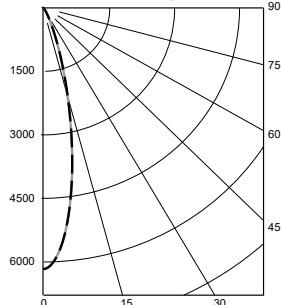
Spot (SP) Distribution, 15°
LTL #14346087.01
Lumens: 1,451



Candelas at Nadir

Deg	Candela
0	11610
5	8378
15	1825
25	257
35	86
45	31

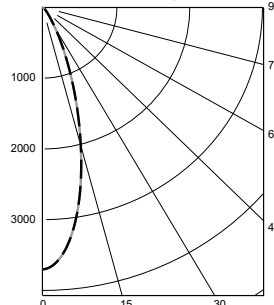
Narrow Flood (NF) Distribution, 22°
LTL #14346087.02
Lumens: 1,390



Candelas at Nadir

Deg	Candela
0	6167
5	5391
15	2012
25	426
35	119
45	52

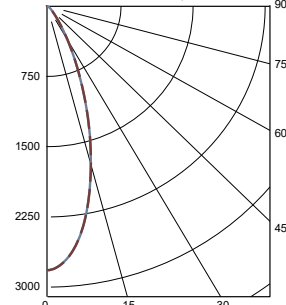
Flood (FL) Distribution, 28°
LTL #14346087.04
Lumens: 1,370



Candelas at Nadir

Deg	Candela
0	3703
5	3440
15	1925
25	651
35	179
45	67

Wide Flood (WF) Distribution, 40°
LTL #14346087.05
Lumens: 1,374



Candelas at Nadir

Deg	Candela
0	2820
5	2674
15	1750
25	763
35	248
45	86

Application Data

Notes and Definitions:

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

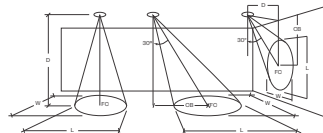
D=Distance to floor or wall.

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
Spot	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
	5.0' 463 1.4 1.4	5.0' 213 2.3 2.2 3.0	3.0' 135 3.4 2.2 5.0	3.0' 403 1.8 1.8 2.0
	7.5' 206 2.1 2.1	7.5' 110 3.3 2.9 4.0	4.0' 87 4.2 2.6 6.0	4.0' 295 2.1 1.8 2.0
	10.0' 116 2.9 2.9	10.0' 64 4.3 3.7 5.0	5.0' 58 5.2 3.2 8.0	5.0' 205 2.5 2.2 3.0
Narrow Flood	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
	12.5' 74 3.6 3.6	12.5' 44 5.1 4.5 7.0	6.0' 42 6.2 3.6 9.0	6.0' 152 2.8 2.5 3.0
	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
	5.0' 247 1.9 1.9	5.0' 133 2.9 2.7 3.0	3.0' 97 3.7 2.4 4.0	3.0' 280 2.1 1.8 2.0
Flood	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
	7.5' 110 3.0 3.0	7.5' 67 4.0 3.6 4.0	4.0' 57 4.8 3.1 5.0	4.0' 201 2.4 2.2 2.0
	10.0' 62 3.9 3.9	10.0' 40 5.2 4.6 5.0	5.0' 39 5.7 3.6 7.0	5.0' 131 3.0 2.7 3.0
	12.5' 40 5.0 5.0	12.5' 26 6.4 5.7 6.0	6.0' 28 6.9 4.3 8.0	6.0' 99 3.4 3.0 3.0
Wide Flood	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
	5.0' 168 2.5 2.5	5.0' 86 3.6 3.2 2.0	3.0' 70 3.9 2.9 4.0	3.0' 194 2.4 2.2 2.0
	7.5' 72 3.7 3.7	7.5' 42 5.0 4.6 4.0	4.0' 43 5.1 3.5 5.0	4.0' 138 2.8 2.7 2.0
	10.0' 40 5.0 5.0	10.0' 25 6.5 5.9 5.0	5.0' 28 6.2 4.4 6.0	5.0' 87 3.6 3.2 2.0
	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
	12.5' 25 6.3 6.3	12.5' 16 8.2 7.4 6.0	6.0' 20 7.5 5.2 7.0	6.0' 65 4.0 3.7 3.0
	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
	5.0' 113 3.0 3.0	5.0' 71 3.9 3.5 2.0	3.0' 60 4.1 3.1 3.0	3.0' 156 2.7 2.5 2.0
	7.5' 50 4.5 4.5	7.5' 34 5.5 5.1 3.0	4.0' 36 5.3 3.9 4.0	4.0' 110 3.1 3.0 2.0
	10.0' 28 6.0 6.0	10.0' 19 7.4 6.8 5.0	5.0' 24 6.4 4.8 5.0	5.0' 72 3.9 3.5 2.0
	12.5' 18 7.5 7.5	12.5' 13 9.1 8.4 6.0	6.0' 17 7.7 5.7 7.0	6.0' 52 4.5 4.2 3.0



PROJECT:

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.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

TRIAC (Forward Phase) Dimming

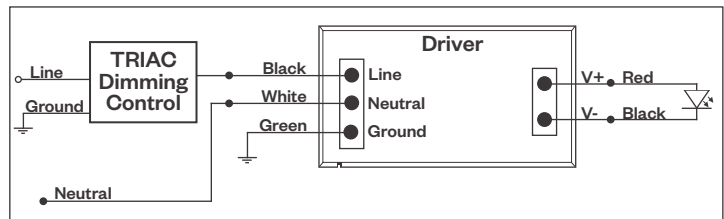
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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

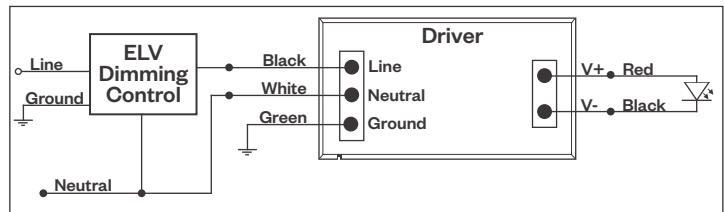
Utilizes specialized "ELV" dimmers.

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.

