

Hornet® HP

Surface Canopy



PROJECT:

TYPE:

Features

The brand new Hornet® HP LED replaces the 20W ceramic metal halide fixture you've grown to love. Small and compact, the Hornet HP delivers the power of the 20W CMH, but surpasses it with enhanced control, instant on, dimmability and long lifespan. Available in surface canopy mount, the Hornet-HP-SC's quality, energy efficient light source provides better maintained and more secure lumens, and consistent color rendering.



Product Overview

Type: Surface Canopy 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

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.

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Ordering Information

HORNET-HP-SC		120-277		LE/TE					
1	2	3	4	5	6	7	8		
1	Model	2	Wattage	3	Finish	4	Voltage	5	Beam Spreads
	HORNET-HP-SC	11		WT	white texture	120-277		SP	spot, 15°
		16		BT	black texture			NF	narrow flood, 22°
		18		ST	silver texture			MFL	medium flood, 25°
		20		Other finishes, consult factory				FL	flood, 28°
								WF	wide flood, 40°
								VWF	very wide flood, 60°
								LS	linear spread lens, 60° x 10°
6	Color Temp			7	Driver	8	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								



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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

Surface canopy

Certifications

Approved to UL standards as tested by CSA.

Intended for indoor use only.

Warranty

5 year limited warranty



Hornet® HP

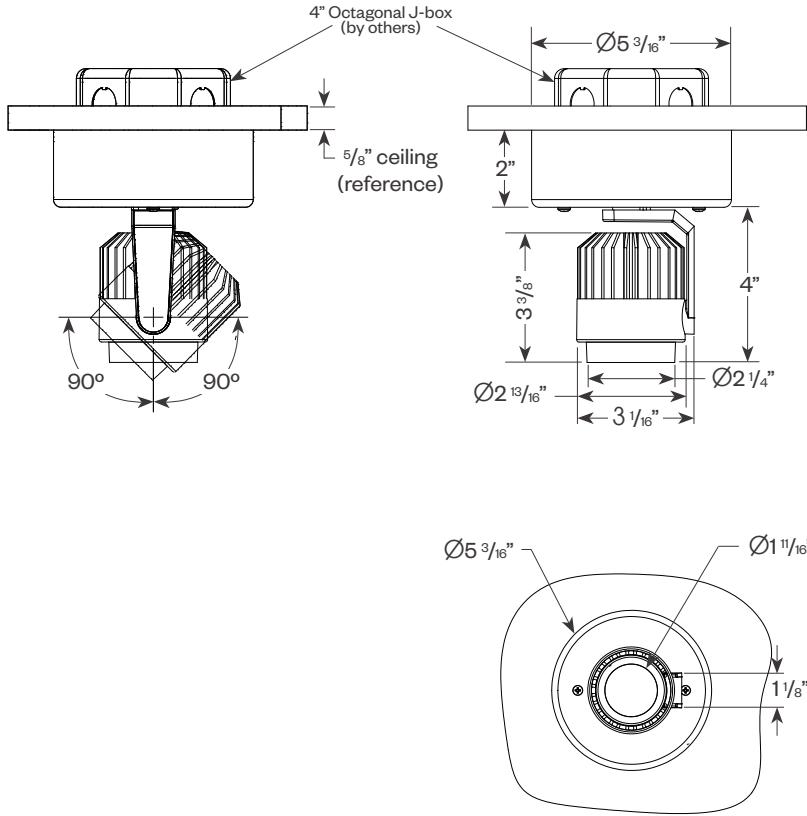
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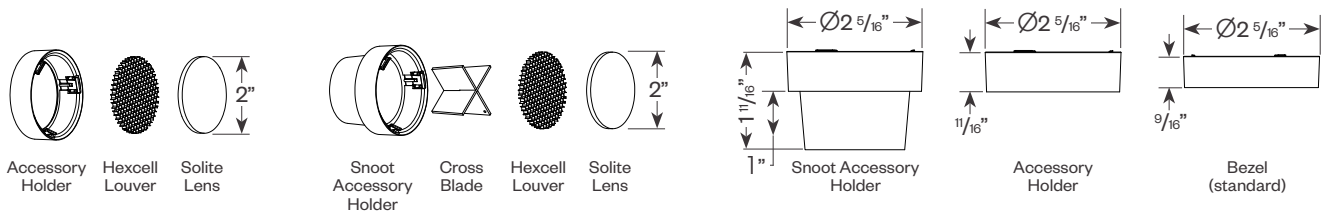
PROJECT:

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Product Details



Accessories



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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

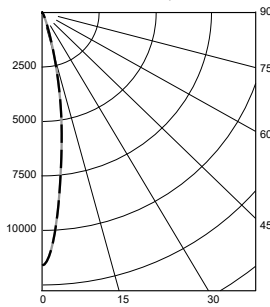
Wattage:	11W	16W	18W	20W
Factor:	0.71	1.0	1.13	1.23

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

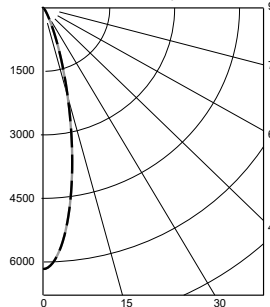
Spot (SP) Distribution, 15°
LTL #14346087.01
Lumens: 1,451



Candelas at Nadir

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

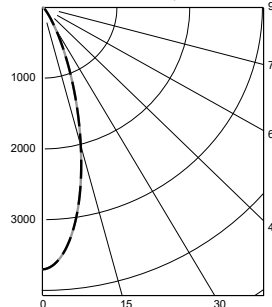
Narrow Flood (NF) Distribution, 22°
LTL #14346087.02
Lumens: 1,390



Candelas at Nadir

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

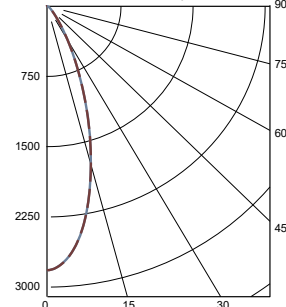
Flood (FL) Distribution, 28°
LTL #14346087.04
Lumens: 1,370



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).

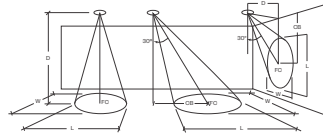
D=Distance to floor or wall.

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	CB	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	463	1.4	1.4	3.0	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	4.0	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	5.0	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
	12.5'	74	3.6	3.6	7.0	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
Narrow Flood	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	247	1.9	1.9	3.0	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
	7.5'	110	3.0	3.0	4.0	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	5.0	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	6.0	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
Flood	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	168	2.5	2.5	3.0	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	4.0	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	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
	12.5'	25	6.3	6.3	6.0	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
Wide Flood	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	113	3.0	3.0	2.0	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	3.0	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	5.0	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	6.0	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



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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 ---

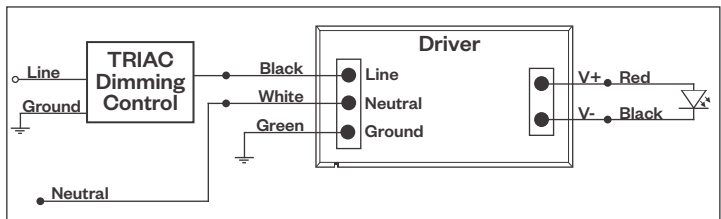
TRIAC (Forward Phase) Dimming

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

TRIAC Wiring Diagram



Compatible Dimmers†:

Wall Box (TRIAC 120VAC)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

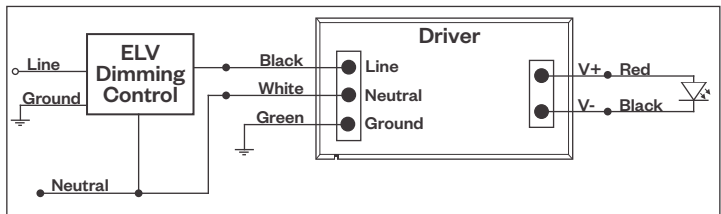
ELV - Electronic Low Voltage (Reverse Phase) Dimming

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

ELV Wiring Diagram



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"		

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.