Hornet® HP
Square Lensed Downlight/Wall Wash

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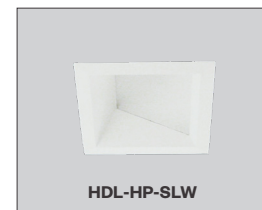
PROJECT:	TYPE:

Features

Hornet Lensed Downlights are the perfect choice for all general lighting needs. Available in Round or Square apertures, these fixtures meet the needs of commercial and hospitality markets. Optional Solite lensing provides whisper quiet aesthetics. Also available in knife-edge trimless, remodeler or millwork. Complementing Hornet Lens Wall Wash fixture available.

HDL-HP-SLD

HDL-HP-SLW

HDL-HP-SLD-TL *(trimless)*

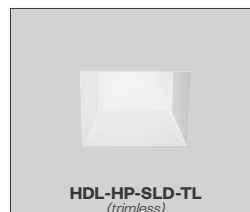**HDL-HP-SLD-MWK** *(millwork)*

Product Overview

Type: Recessed Square Lensed Downlight/Wall Wash

Wattage: 9W, 12W, 16W, 23W, 27W, 30W

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 available

Dimming: TRIAC & ELV, 5% Dim, 120/277VAC
Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black, 120/277VAC
0-10V, 1% Dim, 120/277VAC
DALI, 1% Dim, 120/277VAC

Certifications

CSA c/us · 5 year limited warranty AMERLUX LED · JA8 TITLE 24 COMPLIANT

Fixture Summary

Performance Data

Watts	HDL-HP-SLD				HDL-HP-SLW		
	Delivered Lumens	LPW	CBCP	Color Temp-CRI	Delivered Lumens	LPW	Color Temp-CRI
9	832	92.4	1179	3000K-83	798	88.6	3000K-83
12	1109	92.4	1572	3000K-83	1063	88.6	3000K-83
16	1471	91.9	2085	3000K-83	1411	88.2	3000K-83
23	2133	94.5	3023	3000K-83	2045	90.6	3000K-83
27	2496	92.4	3537	3000K-83	2454	90.9	3000K-83
30	2773	92.4	3930	3000K-83	2659	88.6	3000K-83

Data is based on 3000K-83 120V IES files available on website.
HDL-HP-SLD data is based on 50SOL optic.
All wattages and LPW's include 2W for thermal protector.

Electrical Data

Voltage	9W		12W		16W		23W		27W		30W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	9.8	0.08	11.9	0.10	15.2	0.13	22.8	0.19	27.3	0.23	32	0.27
277V	9.8	0.04	11.9	0.04	15.2	0.06	22.8	0.08	27.3	0.10	32	0.12

Electronic constant current LED driver.
Includes thermal protector, 2W power consumption.

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Hornet® HP
Square Lensed Downlight/Wall Wash

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PROJECT:	TYPE:

Ordering Information - Housing/Frame

_____ . _____ . _____ . _____ . _____ . _____

1   **2**   **3**   **4**   **5**   **6**

1 Model

For New Construction

HDL-HP-S-NC-A17 *(New Construction)*

HDL-HP-S-CP-A17 *(Chicago Plenum (CCEA) housing)*

HDL-HP-S-IC-A17^{T24} *(Insulated Ceiling/air tight, 16W max)*

For Existing Ceilings

HDL-HP-S-REM-A17 *(Remodeler)*

2 Style

T trimmed

TL trimless

MWK$^{R\,\mathchar'43}$ millwork *(for 1/2" - 11/16" ceiling thickness)*

^{R} *Not available for use with Remodeler model*

$^{\mathchar'43}$ *Consult factory for use in ceilings thicker than 11/16"*

3 Wattage

9

12

16^{T24}

23*

27*

30*

* Not available for use with IC housing

4 Voltage

120

277

120/277 *(for use with IC housing only)*

5 Driver *(for non-dimming, select LE/TE option)*

LE/TE^{T24} TRIAC/ELV dimming

HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black

0-10V^{T24} 0-10V dimming, 1% dim

DALI DALI dimming, 1% dim

6 Options/Accessories

EM - emergency battery pack with remote test switch *(not available for use with REM, CP or IC options)*

HB49 - hanger bars from min 29" to max 49" *(not available for use with REM options)*

*Note: 26" hanger bars are included as standard. Choose **HB49** option above for larger mounting spaces only.*

Ordering Information - Trim

_____ . _____ . _____ . _____ . _____ . _____

1   **2**   **3**   **4**   **5**   **6**

1 Model

HDL-HP-SLD-A17 *(lensed downlight)*

HDL-HP-SLW-A17 *(lensed wall wash)*

2 Style

T trimmed

TL trimless

MWK millwork

3 Finish

Trimmed

MBW matte black, white flange

MWW matte white, white flange

SLVW matte silver, white flange

MBB matte black, black flange

SLVS matte silver, silver flange

Trimless/Millwork

MB matte black

MW matte white

SLV matte silver

4 Beam Spread *(not required for RLW fixture)*

30SOL 30° beam with solite lens

50SOL 50° beam with solite lens

65SOL 65° beam with solite lens

75SAT 75° beam with satin ice lens

5 Color Temp

83 CRI	90+ CRI^{T24}	
27 2700K-83	**229** 2200K-90+	**CRISP**$^{\mathchar'43}$ CrispWhite
30 3000K-83	**279** 2700K-90+	**3CLA**$^{\mathchar'43}$ 3000K Class A
35 3500K-83	**309** 3000K-90+	
40 4000K-83	**359** 3500K-90+	
	409 4000K-90+	

$^{\mathchar'43}$ *Not available for 27W & 30W*

6 Options/Accessories

WET wet location *(only available for use with trimmed style)*

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^{T24} JA8/Title 24 Compliant

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PROJECT:	TYPE:

Specifications

Application
Retail and commercial ambient or wall wash lighting

Construction
20 ga. galvanized steel frame
18 ga. galvanized steel splice housing and hanger brackets *(not for Remodeler version)*
Cast aluminum plaster frame with perforated face *(for trimless version only)*
Die-cast optical housing and trim
Die-cast heat sink

Optical
Lens Options *(for RLD version)*:
Satin Ice lens for maximum source concealment and wide distribution with a visually "hotter" aperture.
Solite lens for maximum efficacy and a visually quieter aperture. 30º, 50º and 65º beam spread options. Visually best with SLV reflector finish.
Beam Spreads *(for RLD version)*:
30SOL - 30º beam with solite lens
50SOL - 50º beam with solite lens
65SOL - 65º beam with solite lens
75SAT - 75º beam with satin ice lens
Wall Wash *(for RLW version)*:
Engineered nano technology lens provides high transmission while concealing LED image

LED
Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. *(2700K, 3000K, 3500K, 4000K)*
90+ typ. *(2200K, 2700K, 3000K, 3500K, 4000K)*
CrispWhite* and Class A** 3000K LEDs available
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: 9W, 12W, 16W, 23W, 27W, 30W
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.
Note: *Drivers are universal but thermal protector is voltage specific.*

Drivers
LE/TE - Leading Edge *(Triac, Forward Phase)* or Trailing Edge *(ELV, Reverse Phase)*
0-10V, Lutron and DALI systems also available
See pages 10-12 for more dimming information

Finish
Powder coat paint/wet paint
Consult factory for custom finishes

Mounting
26" Hanger bars included *(except for Remodeler versions)*
Optional **HB49** - hanger bars from min 29" to max 49" available
Trimmed Fixture:
For use in grid or sheetrock ceilings, 5/8" - 2" max *(1" max for SLW trims)* standard
Trimless Fixture:
For use in sheetrock ceilings, max ceiling thickness 5/8"
Millwork Fixture:
Millwork extension collars are based on ceiling material specifications and thickness. Provides flush trim appearance level with ceiling material. Ceiling thickness 1/2"-11/16".
Consult factory for use in ceilings thicker than 11/16".
Not available for use with Remodeler model.

Certifications
CSA damp as tested to UL 1598 standards
CP - Chicago Plenum *(CCEA)* option
IC/AT rated *(optional, 16W only)*
JA8/Title 24 Compliant *(see ordering page for options that apply)*
Damp location
Wet location option

Warranty
5 year limited warranty

Emergency Battery Pack *(EM)*
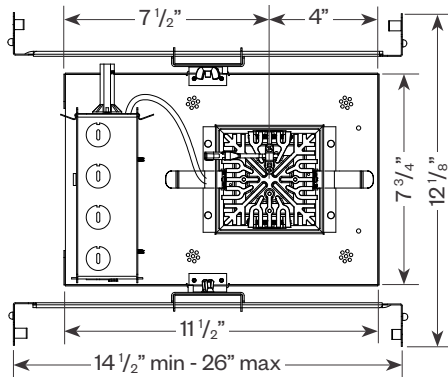Powers fixture at 5.1 watts *(approx. 400 Lm)* for 90 minutes *(not for use with REM, CP or IC versions)*

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Hornet® HP

Square Lensed Downlight/Wall Wash

PROJECT:	TYPE:

Product Details - Trimmed

7 1/2"   4"

7 3/4"   12 1/8"

11 1/2"

14 1/2" min - 26" max

Optional CP or IC/AT housing

13 5/16"   11 1/2"   13 3/8"   11 5/8"   7 3/4"

13 1/4"   11 5/8"   7 5/8"   7 13/16"

13 3/8"   13 1/4"   7 3/16"
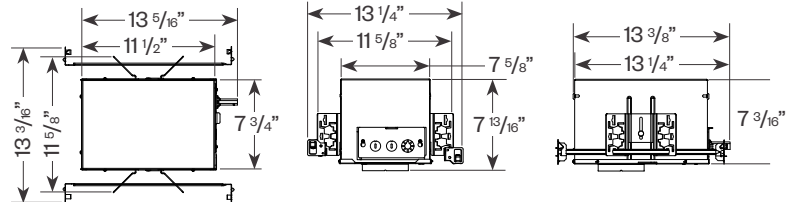
Emergency Battery Pack *(EM)* **option**

12 5/16"   6"

Hornet HP Round Lensed Downlight *(HDL-HP-SLD)*

3 1/8"   3 7/8"

5/8" - 2" (max)   Ø3 1/2"   1/8"

4 3/8"   2 1/2"
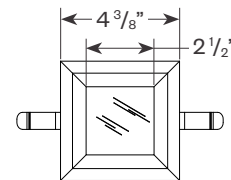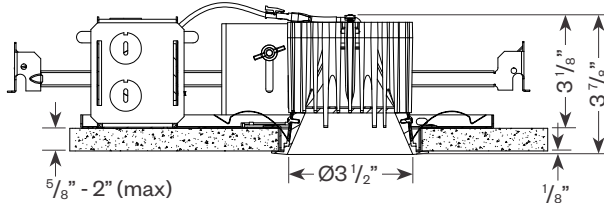
Ceiling Cut Out: 4" sq.

Hornet HP Round Lensed Wall Wash *(HDL-HP-SLW)*
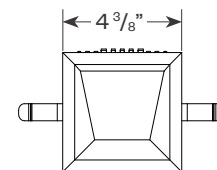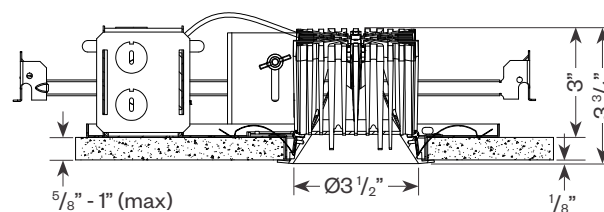
3"   3 3/4"

5/8" - 1" (max)   Ø3 1/2"   1/8"

4 3/8"

Ceiling Cut Out: 4" sq.

Hornet® HP

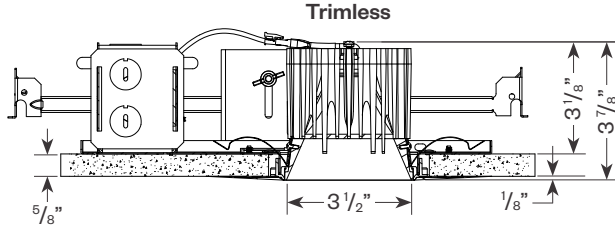## Square Lensed Downlight/Wall Wash

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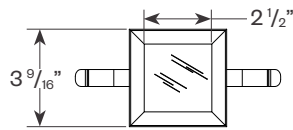
PROJECT:	TYPE:

Product Details - Trimless & Millwork

Hornet HP Square Lensed Downlight *(HDL-HP-SLD-TL or HDL-HP-SLD-MWK)*

Trimless

Trimless Ceiling Cut Out: 4 1/2" sq.

Millwork

1/2" - 11/16"
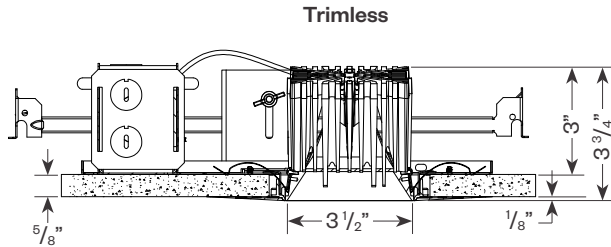Ceiling Thickness
(Consult factory for thicker ceilings)
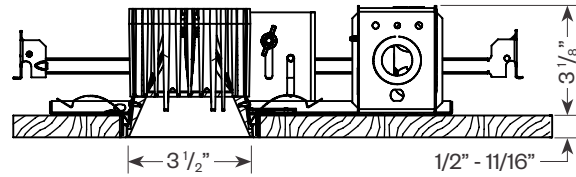
Millwork Ceiling Cut Out: 4" sq.
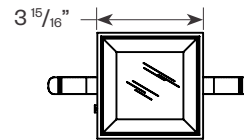
Hornet HP Square Lensed Wall Wash *(HDL-HP-SLW-TL or HDL-HP-SLW-MWK)*

Trimless

Trimless Ceiling Cut Out: 4 1/2" sq.

Millwork

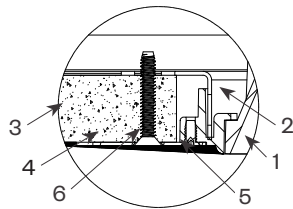1/2" - 11/16"
Ceiling Thickness
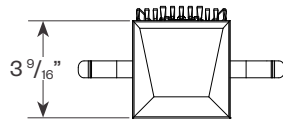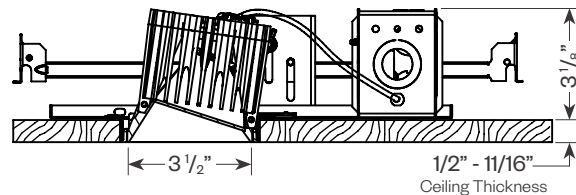
Millwork Ceiling Cut Out: 4" sq.
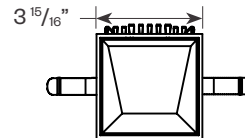
Plaster Frame Installation Detail *(for trimless fixture only)*

1. Reflector Trim
2. Aperture Plate
3. Ceiling ⅝"
4. Cast Aluminum Plaster Frame
5. Plaster Skim Coat *(by others)*
6. 6-32 Type F Thread Cutting Screw

Millwork Detail

1. Reflector Trim
2. Millwork Ring
3. Aperture Plate
4. Wood Ceiling 2" Max
5. Extension Collar *(see ordering information for ceiling thicknesses)*
6. 1/16" required for trim to be flush with ceiling
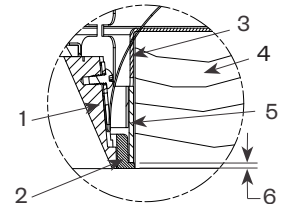
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Hornet® HP

Square Lensed Downlight/Wall Wash

PROJECT:	TYPE:

Product Details - Remodeler Trimmed
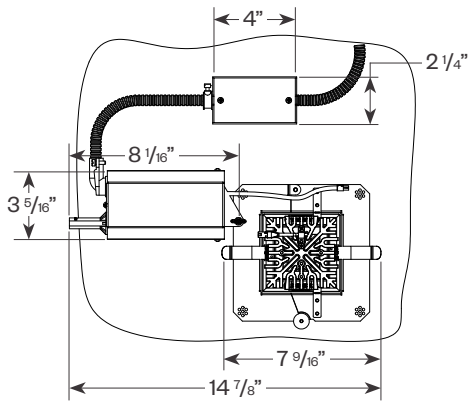
Hornet HP Square Lensed Downlight *(HDL-HP-SLD)*
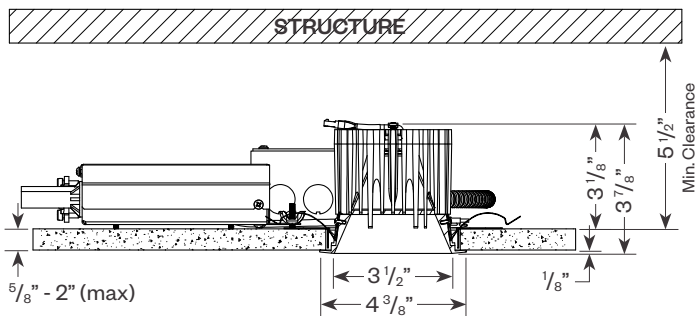
Ceiling Cut Out: 4" sq.
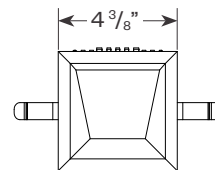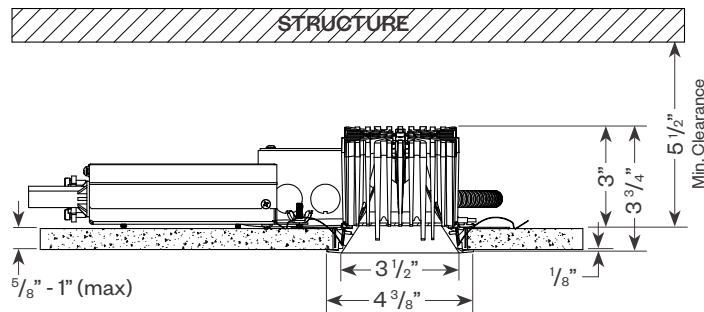
Hornet HP Square Lensed Wall Wash *(HDL-HP-SLW)*

Ceiling Cut Out: 4" sq.

Hornet® HP

Square Lensed Downlight/Wall Wash

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PROJECT:	TYPE:

Product Details - Remodeler Trimless

Hornet HP Square Lensed Downlight *(HDL-HP-SLD-TL)*
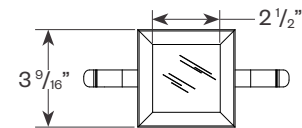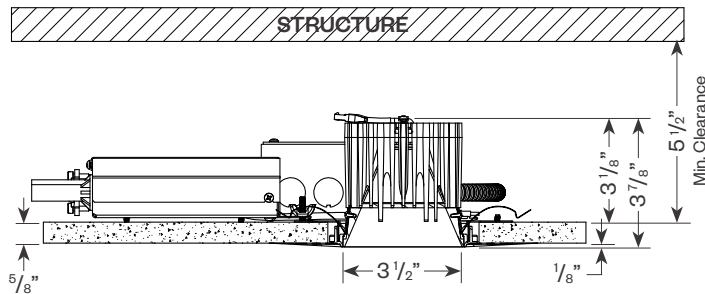
Trimless Ceiling Cut Out: 4 1/2" sq.

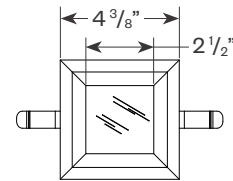**Hornet HP Square Lensed Wall Wash** *(HDL-HP-SLW-TL)*
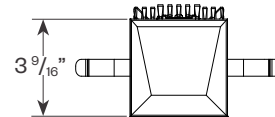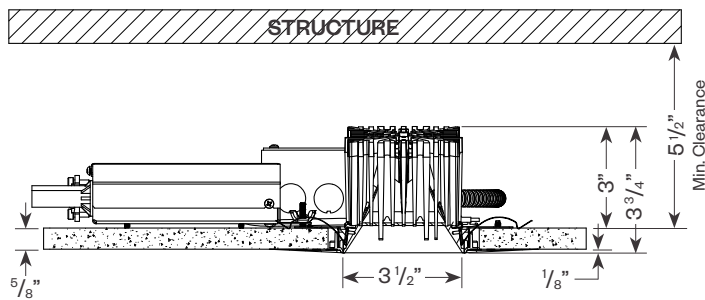
Trimless Ceiling Cut Out: 4 1/2" sq.

Plaster Frame Installation Detail *(for remodeler trimless fixture only)*

1. Reflector Trim
2. Aperture Plate
3. Ceiling ⅝"
4. Cast Aluminum Plaster Frame
5. Plaster Skim Coat *(by others)*
6. 6-32 Type F Thread Cutting Screw

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Hornet® HP

Square Lensed Downlight/Wall Wash

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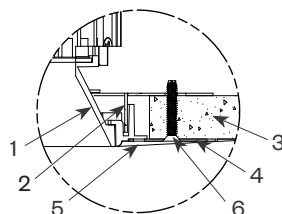
PROJECT:	TYPE:

Performance Data - Round Lensed Downlight *(HDL-HP-SLD)*

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

Wattage:	9W	12W	16W	23W	27W	30W
Factor:	0.39	0.52	0.69	1.0	1.2	1.3

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

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.66	0.83	0.86	0.90	0.93	0.65	0.70

23W LED, 3000K-83

30° Solite Lens
LTL # 13408034.06
Lumens: 2080 lm; 92.1 lm/W

50° Solite Lens
LTL # 13408034.07
Lumens: 2133 lm; 94.5 lm/W

65° Solite Lens
LTL # 13408034.08
Lumens: 2073 lm; 91.9 lm/W

75° Satin Ice Lens
LTL # 13408034.09
Lumens: 1925 lm; 85.9 lm/W

Candelas at Nadir

Deg	Candela
0	5191
5	4959
15	2524
25	955
35	141
45	58

Candelas at Nadir

Deg	Candela
0	3023
5	3010
15	2495
25	1604
35	180
45	66

**Candelas at Nadir**

Deg	Candela
0	1537
5	1535
15	1509
25	1305
35	479
45	267

Candelas at Nadir

Deg	Candela
0	1135
5	1125
15	1043
25	880
35	636
45	410
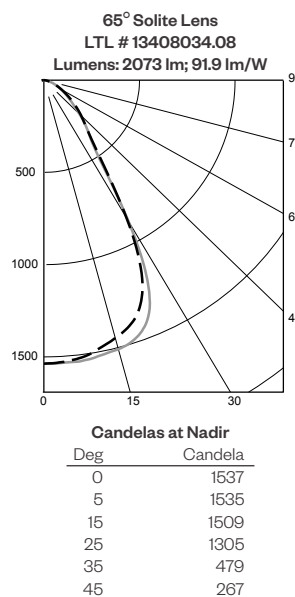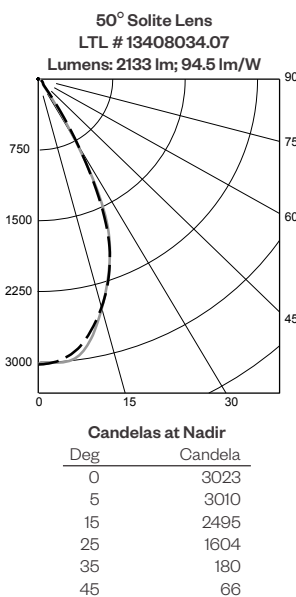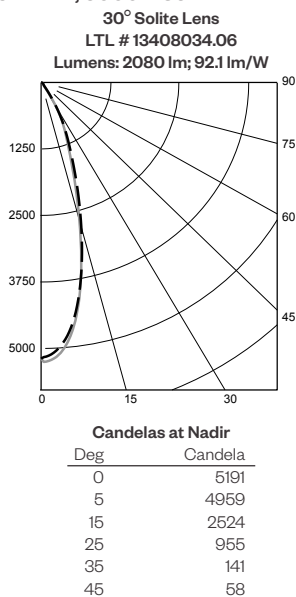
Application Data - Round Lensed Downlight *(HDL-HP-SLD)*
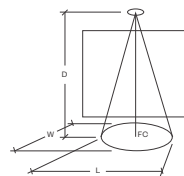
Notes and Definitions:
Beam spread is to 50% center beam candlepower (CBCP).
D=Distance to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet (50% of maximum footcandle level).
W=Effective Visual Beam width in feet (50% of maximum footcandle level).

30° Solite Lens
0° Aiming Angle
Horizontal Footcandles

D	FC	L	W
5.0'	208	2.6	2.6
7.5'	93	3.7	3.8
10.0'	52	5.0	5.2
12.5'	34	6.3	6.4

50° Solite Lens
0° Aiming Angle
Horizontal Footcandles

D	FC	L	W
5.0'	122	4.1	4.1
7.5'	54	6.1	6.1
10.0'	31	8.2	8.2
12.5'	20	10.3	10.2

65° Solite Lens
0° Aiming Angle
Horizontal Footcandles

D	FC	L	W
5.0'	62	5.2	5.1
7.5'	28	7.9	7.7
10.0'	16	10.6	10.4
12.5'	10	13.4	13.2

75° Satin Ice Lens
0° Aiming Angle
Horizontal Footcandles

D	FC	L	W
5.0'	44	5.5	5.5
7.5'	20	8.1	8.1
10.0'	12	10.9	10.9
12.5'	8	14.1	14.0

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Hornet® HP

Square Lensed Downlight/Wall Wash

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PROJECT:	TYPE:

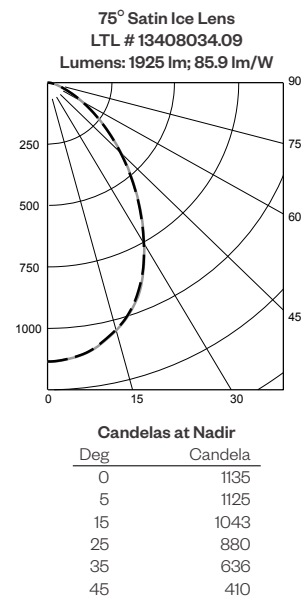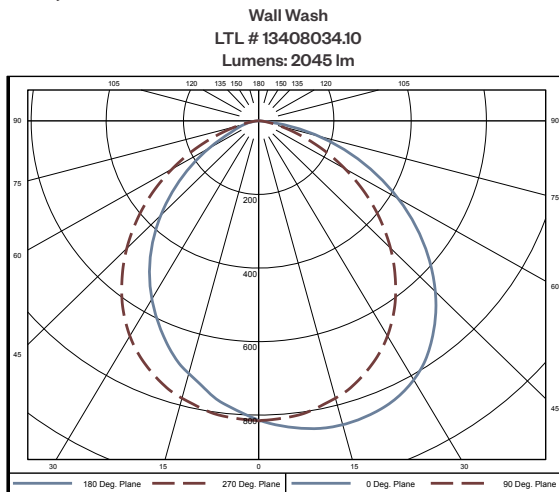## Performance Data - Round Lensed Wall Wash *(HDL-HP-SLW)*

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:	9W	12W	16W	23W	27W	30W
Factor:	0.39	0.52	0.69	1.0	1.2	1.3

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.66	0.83	0.86	0.90	0.93	0.65	0.70

23W LED, 3000K-83

Wall Wash
LTL # 13408034.10
Lumens: 2045 lm

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1029	50.3
0-60	1739	85.0
0-90	2045	100.0
90-180	0	0.0

Luminaire Efficacy: 90.6 Lm/W

Legend: 180 Deg. Plane — 270 Deg. Plane — 0 Deg. Plane — 90 Deg. Plane

Application Data - Round Lensed Wall Wash *(HDL-HP-SLW)*

Footcandles on Wall

Footcandles are average and rounded off.
Data for multiple units are based
on a minimum of five units.

1.5 Feet from Wall — |← 1.5' →|← 1.5' →|

Distance from ceiling					
0.5'	105	109	110	109	105
1.5'	170	180	183	180	170
2.5'	116	127	130	127	117
3.5'	69	76	78	76	70
4.5'	42	45	48	47	43
5.5'	29	31	32	31	29
6.5'	21	22	23	22	21
7.5'	16	17	17	17	16

1.5 Feet from Wall — |← 2' →|← 2' →|

Distance from ceiling						
0.5'	78	87	79	88	77	87	77
1.5'	131	141	137	143	136	142	130
2.5'	92	99	101	103	101	99	93
3.5'	55	61	63	64	63	61	57
4.5'	35	38	40	41	41	39	36
5.5'	24	27	28	28	28	27	25
6.5'	18	20	20	21	21	20	19
7.5'	14	15	16	16	16	16	15

2 Feet from Wall — |← 2' →|← 2' →|

Distance from ceiling						
0.5'	44	50	48	51	49	50	46
1.5'	96	104	104	107	105	105	97
2.5'	88	95	98	99	98	96	88
3.5'	61	66	69	70	69	67	61
4.5'	41	45	47	48	47	45	41
5.5'	29	32	33	34	33	32	29
6.5'	22	23	25	25	25	23	22
7.5'	17	18	19	19	19	18	17

Delta Intelligent Building Technologies

Hornet® HP
Square Lensed Downlight/Wall Wash

amerlux

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 *(Standard)*

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
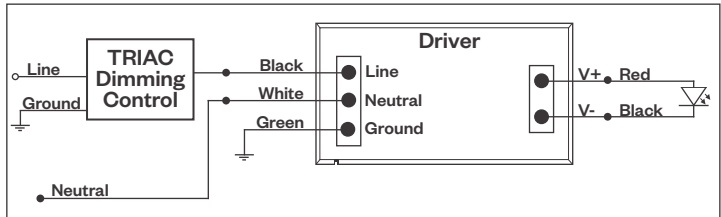
Compatible Dimmers†:

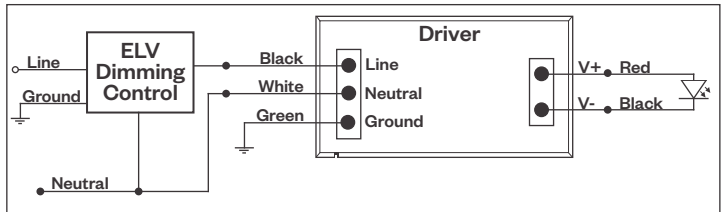| Wall Box *(TRIAC 120VAC)*	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

ELV - Electronic Low Voltage *(Reverse Phase)* DIMMING *(Standard)*

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.

Delta Intelligent Building Technologies

Hornet® HP

Square Lensed Downlight/Wall Wash

amerlux

PROJECT:	TYPE:

Dimming Compatibility *(continued)*

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 ---
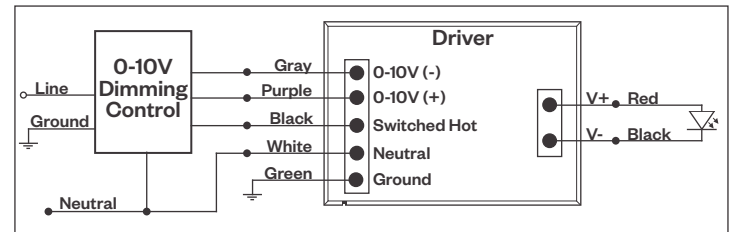
0-10V DIMMING

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

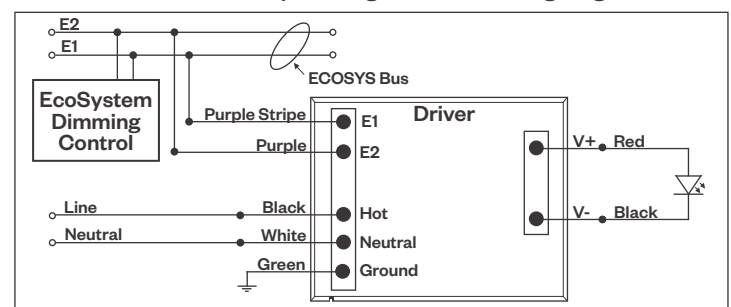| Compatible Dimmers†:		
Wall Box		**Central System**
Lutron "Diva" - DVSTV	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface

LUTRON LDE1 DIMMING

Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- Dims down to 1% light output
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

LDE1 *(HILUME-H-ECO)* **EcoSystem Digital Control Wiring Diagram**

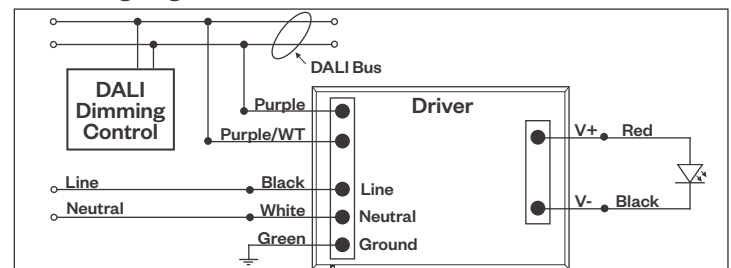| Compatible Dimmers†:	
Lutron ECO System	**Central System**
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

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

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.

Hornet® HP

Square Lensed Downlight/Wall Wash

PROJECT: **TYPE:**

Emergency Battery Pack

Wiring Diagram

Delta Intelligent Building Technologies

178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com
Amerlux reserves the right to change details that do not affect overall function and performance.
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