

PROJECT:

TYPE:

### Features

MESA is a configurable trough housing unit that refines system functionality and the aesthetics of your ceiling. You select the mechanical, electrical, security or audio components you need. We then configure modules to beautifully integrate each component. Beautiful, sensible, clean and streamlined, MESA is easily serviced from below the ceiling. MESA. Systems, unified. Access, optimized. Looks, modernized.

### Product Overview

Type: Recessed (*Gyp or Grid*)

Modules: Linear Ambient, Point source, HVAC, Sprinkler, Speaker, Camera, Sensor and Duplex Receptacle

Color Temp: 2700K, 3000K, 3500K, 4000K

CRI: 83 typ. or 90+ typ.

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 (for Light Modules)



### Fixture Summary

#### Performance Data

| PSLMxx-HHP |                  |      |        |                |
|------------|------------------|------|--------|----------------|
| Watts      | Delivered Lumens | LPW  | CBCP   | Color Temp-CRI |
| 11         | 1030             | 93.7 | 8243   | 3000K-83       |
| 16         | 1451             | 90.7 | 11,610 | 3000K-83       |
| 18         | 1640             | 91.1 | 13,119 | 3000K-83       |

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

Data is per head and based on Spot optic. See pg 7 for other beam spreads.

| LALM           |                  |       |                |
|----------------|------------------|-------|----------------|
| Watts per Foot | Delivered Lumens | LPW   | Color Temp-CRI |
| 5              | 2077             | 103.4 | 3500K-83       |
| 10             | 3671             | 96.7  | 3500K-83       |

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

Data is based on 4' fixture with Designer Lens.

#### Electrical Data

| PSLMxx-HHP |              |      |              |      |              |      |
|------------|--------------|------|--------------|------|--------------|------|
|            | 11W          |      | 16W          |      | 18W          |      |
| Voltage    | System Watts | Amps | System Watts | Amps | System Watts | Amps |
| 120V       | 11           | 0.09 | 16           | 0.13 | 18           | 0.15 |
| 277V       | 11           | 0.04 | 16           | 0.06 | 18           | 0.07 |

Electronic constant current LED driver. Data per head.

| LALM             |         |              |      |
|------------------|---------|--------------|------|
|                  | 4'      |              |      |
| Wattage per Foot | Voltage | System Watts | Amps |
| 5                | 120V    | 22.3         | 0.18 |
|                  | 277V    | 22.9         | 0.09 |
| 10               | 120V    | 42.1         | 0.30 |
|                  | 277V    | 41.5         | 0.15 |

Electronic multi-volt (120V-277V), constant current LED driver.

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### STEP 1: Ordering Information - Housing

| 1 | 2                                        | 3 | 4 | 5              | 6               | 7 | 8                                         | 9                                                                          |
|---|------------------------------------------|---|---|----------------|-----------------|---|-------------------------------------------|----------------------------------------------------------------------------|
| 1 | Model                                    |   |   | 2              | Run Length      |   | 3                                         | Configuration                                                              |
|   | MESA-HSG-GB MESA housing, gyp board      |   |   |                | _____ (specify) |   |                                           | IND individual fixture, 2' to 8' in 1' increments                          |
|   | MESA-HSG-GRID MESA housing, grid ceiling |   |   |                |                 |   |                                           | CON continuous run > than 8', specify to nearest foot                      |
|   |                                          |   |   |                |                 |   |                                           | CUS custom made to measure, +/- 1/8" of customer supplied field dimensions |
|   |                                          |   |   |                |                 |   |                                           | PAT pattern, consult factory                                               |
| 4 | Voltage                                  |   | 5 | Finish         |                 | 6 | Faceplate (finish matches fixture finish) |                                                                            |
|   | 120                                      |   |   | MB matte black |                 |   | PERF perforated steel panel               |                                                                            |
|   | 120/277                                  |   |   |                |                 |   | SOLID solid steel panel                   |                                                                            |

### STEP 2: Ordering Information - Point Source Light Module (PSLM<sub>xx</sub>-HHP)

| 1 | 2                                                                   | 3 | 4                                                                                                                                                          | 5 | 6       | 7 |
|---|---------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------|---|
| 1 | Quantity                                                            | 2 | Model                                                                                                                                                      | 3 | Wattage |   |
|   | _____ (specify quantity)                                            |   | PSLM1-HHP point source 1 head adjustable light module, 6"                                                                                                  |   | 11      |   |
|   |                                                                     |   | PSLM2-HHP point source 2 head adjustable light module, 12"                                                                                                 |   | 16      |   |
|   |                                                                     |   | PSLMIPD-HHP point source 1 head pull-down adjustable light module, 6"                                                                                      |   | 18      |   |
| 4 | Beam Spread                                                         | 5 | Color Temp                                                                                                                                                 |   |         |   |
|   | 1LT 2LT                                                             |   | 83 CRI 90+ CRI                                                                                                                                             |   |         |   |
|   | SP SP (spot 15°)                                                    |   | 27 2700K-83 229* 2200K-90+ 3CLA* 3K Class A                                                                                                                |   |         |   |
|   | NF NF (narrow flood 22°)                                            |   | 30 3000K-83 279 2700K-90+                                                                                                                                  |   |         |   |
|   | MFL MFL (medium flood 25°)                                          |   | 35 3500K-83 309 3000K-90+                                                                                                                                  |   |         |   |
|   | FL FL (flood 28°)                                                   |   | 40 4000K-83 359 3500K-90+                                                                                                                                  |   |         |   |
|   | WF WF (wide flood 45°)                                              |   | 409 4000K-90+                                                                                                                                              |   |         |   |
|   | VWF VWF (very wide flood 60°)                                       |   |                                                                                                                                                            |   |         |   |
|   | LS LS (linear spread 60°x10°)                                       |   |                                                                                                                                                            |   |         |   |
|   |                                                                     |   | * Not available for 18W                                                                                                                                    |   |         |   |
| 6 | Driver (for non-dimming select LE/TE option)                        | 7 | Options/Accessories                                                                                                                                        |   |         |   |
|   | 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 |   |         |   |
|   | HILUME-H-ECO - Lutron LDE1 Hi-lume®<br>1% dim Soft-On/Fade-to-Black |   | AH accessory holder, finish matches fixture finish, accepts 2 forms of media                                                                               |   |         |   |
|   | 0-10V 0-10V dimming, 1% dim                                         |   | HEX hexcell louver, 1/8"x1/8" (requires SNAH or AH)                                                                                                        |   |         |   |
|   | DALI DALI dimming, 1% dim                                           |   | CB cross blade, matte black finish (requires SNAH)                                                                                                         |   |         |   |
|   |                                                                     |   | SOL solite beam softening lens (requires SNAH or AH)                                                                                                       |   |         |   |

**NOTE: Final nomenclature for ordering purposes to be determined after reception and review of the ceiling plans.**

PROJECT:

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### STEP 3: Ordering Information - Linear Ambient Light Module (LALM)

| LALM |                                     |   |                                                                              |   |                                         |   |   |
|------|-------------------------------------|---|------------------------------------------------------------------------------|---|-----------------------------------------|---|---|
| 1    | 2                                   | 3 | 4                                                                            | 5 | 6                                       | 7 | 8 |
| 1    | Quantity                            | 2 | Model                                                                        | 3 | Optics                                  |   |   |
|      | _____ (specify quantity)            |   | LALM linear ambient light module                                             |   | DL designer lens<br>PL performance lens |   |   |
| 4    | Wattage (per foot)                  | 5 | Color Temp                                                                   | 6 | Length                                  |   |   |
|      | 3* 3W/ft                            |   | 83 CRI 90+ CRI                                                               |   | 2 2'                                    |   |   |
|      | 4* 4W/ft                            |   | 27 2700K-83 279 2700K-90+                                                    |   | 3 3'                                    |   |   |
|      | 5 5W/ft                             |   | 30 3000K-83 309 3000K-90+                                                    |   | 4 4'                                    |   |   |
|      | 6 6W/ft                             |   | 35 3500K-83 359 3500K-90+                                                    |   |                                         |   |   |
|      | 7 7W/ft                             |   | 40 4000K-83 409 4000K-90+                                                    |   |                                         |   |   |
|      | 8 8W/ft                             |   |                                                                              |   |                                         |   |   |
|      | 9 9W/ft                             |   |                                                                              |   |                                         |   |   |
|      | 10 10W/ft                           |   |                                                                              |   |                                         |   |   |
|      | *4' minimum length required         |   |                                                                              |   |                                         |   |   |
| 7    | Driver                              | 8 | Options/Accessories                                                          |   |                                         |   |   |
|      | 0-10V 0-10V dimming, 1% dim         |   | EMC-PF emergency circuit requires power feed located in last fixture section |   |                                         |   |   |
|      | HILUME-H-ECO - Lutron LDE1 Hi-lume® |   | (for other locations consult factory)                                        |   |                                         |   |   |
|      | 1% dim Soft-On/Fade-to-Black        |   | EMB emergency battery pack (not available for lengths under 4')              |   |                                         |   |   |
|      | DALI DALI dimming, 1% dim           |   |                                                                              |   |                                         |   |   |

### STEP 4: Ordering Information - Accessory Module (Note: duplicate Step 4 for additional accessories, as needed)

| 1 | 2                                                 |
|---|---------------------------------------------------|
| 1 | Quantity                                          |
|   | _____ (specify quantity)                          |
| 2 | Model                                             |
|   | SPR sprinkler module, 6"                          |
|   | HVAC____ HVAC module, 18"/24"/36"/48"             |
|   | SPK speaker module, 6"                            |
|   | CAM camera module, 6"                             |
|   | MS motion sensor module, 6"                       |
|   | DPX duplex receptacle module, 6"                  |
|   | AMBC general accessory mounting bracket/cover, 6" |
|   | BL____ blank module (specify length)              |

**NOTE: Final nomenclature for ordering purposes to be determined after reception and review of the ceiling plans.**

### PROJECT:

### TYPE:

### Specifications - MESA Housing

#### Application

Complete system of mechanical, electrical, security and audio components combined in one fixture for retail, commercial and hospitality environments.

#### Construction

Extruded aluminum & heavy gauge steel frame.

#### Electrical

120/277VAC input.

#### Finish

White Texture, Black Texture or Matte Black finishes.

#### Mounting

Housing mounted in gypsum board or grid ceilings (9/16" Tee or Slot Grid, or 15/16" Tee Grid).

Installation and ceiling trim spackled by installing contractor.

#### Certifications

Indoor use only.

#### Light and Other Modules

Accepts a variety of Amerlux lighting modules and other accessory modules (ie. duplex, camera, sensor, hvac, etc.). See pages 7-9.

#### HVAC module is compatible with the following Titus part numbers:

##### TITUS 18" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-18-2HP-08-2B-BLACK-0-XX-0
- DIFFUSER: ML38-18-2-XX-2B-BLACK-0-0-0

##### TITUS 24" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-24-2HP-08-2B-BLACK-0-XX-0
- DIFFUSER: ML38-24-2-XX-2B-BLACK-0-0-0

##### TITUS 36" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-36-2HP-08-2B-BLACK-0-XX-0
- PLENUM BOX: MPI38-36-2HP-10-2B-BLACK-0-XX-0
- DIFFUSER: ML38-36-2-XX-2B-BLACK-0-0-0

Consult factory for any other compatibility.

### Specifications - Point Source Light Module (PSLMxx-HHP)

#### Application

Lighting module for MESA system of mechanical, electrical, security and audio components combined in one fixture for retail, commercial and hospitality environments

#### Construction

Thermally protected (adds 2W to total fixture wattage)  
Steel driver housing  
Steel upper housing and laser cut trim ring  
Complete die-cast optical head construction  
No exposed wiring

#### Optical

Tilt: 0-180° (pull-down module); Rotation: 120° (pull-down module)  
Beam Spreads: Spot 15°; Narrow Flood 22°; Medium Flood 25°;  
Flood 28°; Wide Flood 45°; Very Wide Flood 60°; Linear Spread 60°x10°

#### LED

Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K  
CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)  
90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)  
Class A\* 3000K (high CRI, high gamut) 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  
\* 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  
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.**

#### Drivers

LE/TE - Leading Edge, TRIAC, forward phase/Trailing Edge, ELV, reverse phase  
0-10V, Lutron and DALI systems also available  
See pages 13-14 for more dimming information

#### Finish

Powder coat paint  
Consult Factory for custom finishes

#### Certifications

CSA listed to UL standards. Suitable for damp locations  
Indoor use only

#### Warranty

5 year limited warranty

**PROJECT:**

**TYPE:**

### Specifications - Linear Ambient Light Module (LALM)

#### Application

Lighting module for MESA system of mechanical, electrical, security and audio components combined in one fixture for retail, commercial and hospitality environments.

#### Construction

Heavy gauge steel upper housing is secured to aluminum extruded trim rails. Die-formed, cold-rolled steel internal components and external mounting brackets.

#### Optical

All lenses are lay-in, extruded acrylic. Amerlux's proprietary acrylic lens provide excellent transmission while effectively concealing source image.

**DL** - Designer Lens provides flat even glow on lens. Best when lens is in direct or constant view.

**PL** - Performance Lens provides high efficiency with some control and brightness.

#### LED

Amerlux's boards and patented connector design with brand name LEDs enables Amerlux fixtures to have excellent thermal management and offer a 5 year warranty. Our LED binning is within 3 MacAdam ellipse. Boards are configured for maximum flexibility resulting in even illumination no matter the fixture layout. LED boards are easily replaced in the field with just a Phillips screw driver.

**Color Temperature Options:** 2700K, 3000K, 3500K, 4000K

**CRI:** 83 typical, 92 optional - consult factory

**R9:** 16 @ CRI 83

**R9:** >50 @ CRI 92

**Life:** 50,000+ hr., > 70% of initial lumens (L70)

#### Electrical

**Wiring:** Supply wires are easily accessible through access plate on top of fixture.

**Wattage:** 3W/ft, 4W/ft, 5W/ft, 10W/ft, 6W/ft, 7W/ft, 8W/ft, 9W/ft, 10W/ft (3W & 4W have a minimum length of 4'). For other wattages consult factory.

**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.**

#### Drivers

**0-10V** - 1% electronic dimming, multi-volt (120-277VAC) constant current driver (standard). Cap leads for non-dim applications.

#### Optional Drivers:

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

**DALI** - DALI Dimming 120-277VAC, 1% dim

#### Finish

Baked on finish for maximum durability and color stability.

White Texture, Black Texture and Matte Black available.

#### Lengths

2, 3, and 4 foot lengths available.

#### Mounting

Gypsum board or Grid Ceiling mounting.

9/16" and 15/16" Tee Grid or 9/16" Slot Grid.

#### Certifications

Approved to UL standards for damp locations as tested by CSA.

Intended for indoor use only.

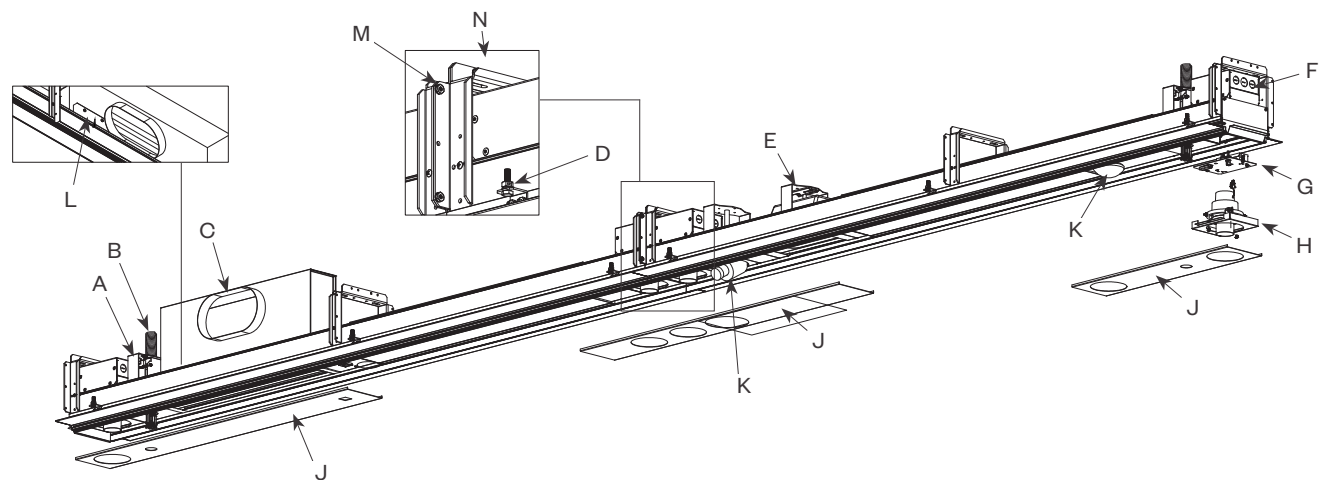
#### Warranty

Amerlux's 5 year limited warranty. Please consult Amerlux website for details.

PROJECT:

TYPE:

Product Details

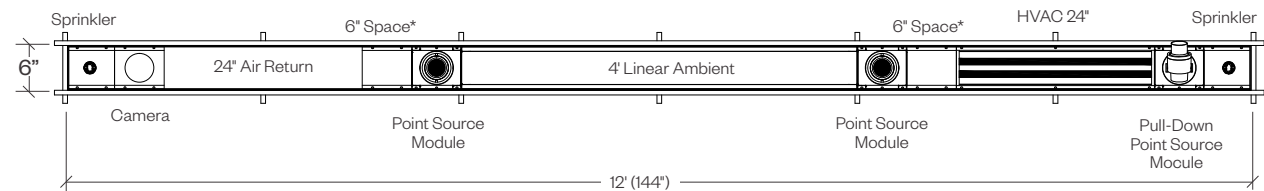


End Fixture Detail



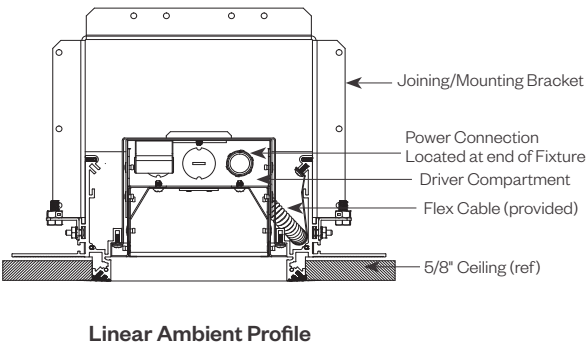
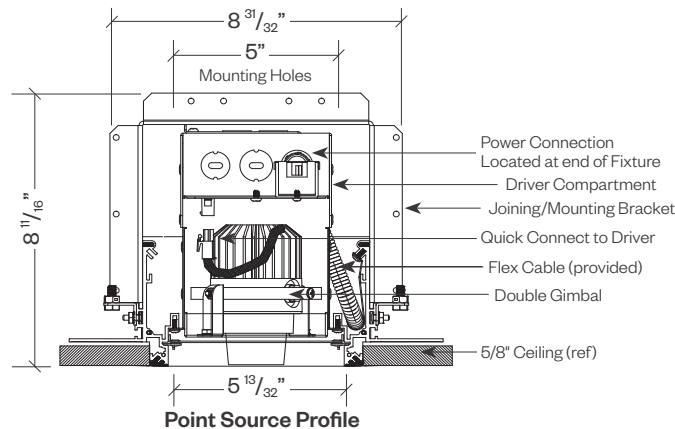
|   |                                                                      |   |                                                           |
|---|----------------------------------------------------------------------|---|-----------------------------------------------------------|
| A | Sprinkler Module Bracket                                             | H | Removable Lamp Assembly for access to driver              |
| B | Ø1-½"Sprinkler Pipe (ref), Installed by others                       | J | Decorative Fascia (see Detail A)                          |
| C | 2' HVAC Plenum Box (by others). Reversible left or right orientation | K | Optional Camera/Motion Sensor Installed/Wired (by others) |
| D | Optional Sliding Mounting Bracket                                    | L | HVAC Mounting Plate                                       |
| E | Speaker (Installed/Wired by others)                                  | M | Joining/Mounting Bracket                                  |
| F | Electrical Feed                                                      | N | ¼-20 Running Thread (by others)                           |
| G | Removable Driver Plate for ease of service                           |   |                                                           |

Example Pattern



\* 6" Space can be utilized by the following accessories: Camera, Speaker, Motion Sensor, or Duplex.

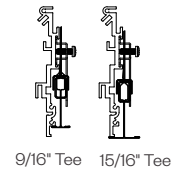
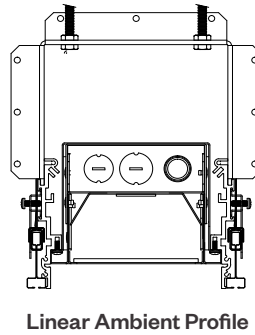
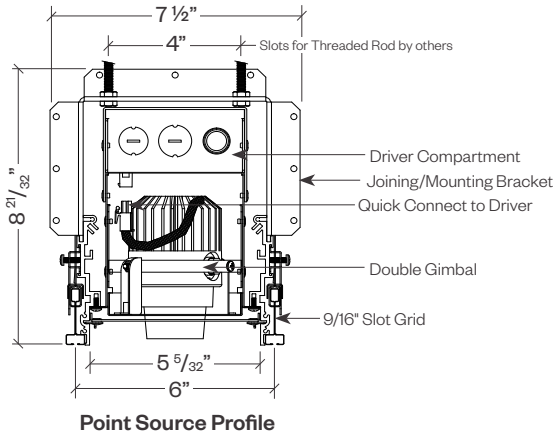
Product Details - MESA Gyp Board



PROJECT:

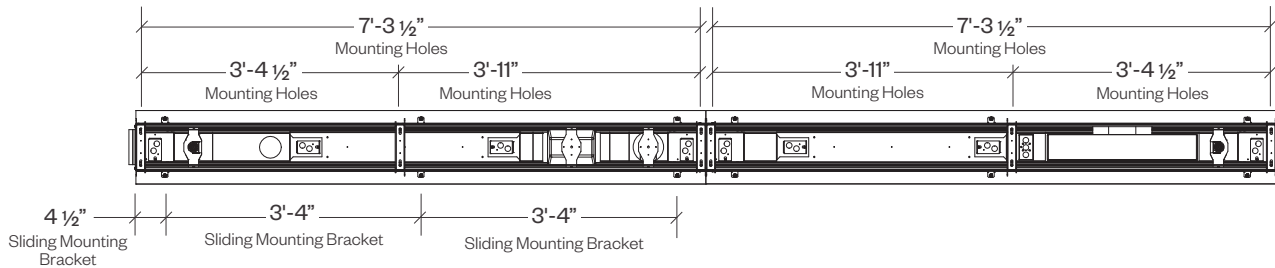
TYPE:

### Product Details - MESA Grid



Note: Fixture **MUST** be suspended from structure due to weight. Fixture is too heavy to rest on grid.

### Mounting Spacing

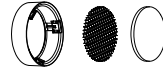


### Decorative Fascia

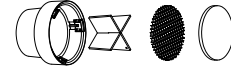


Note: HVAC & Speakers have option for PERF to be placed over top (39% of area is open with PERF design), or cut-out for those sections

### Accessories - Point Source (diagrams show installation order)



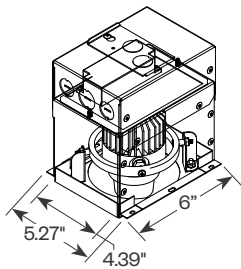
Accessory Holder,  
Hexcell Louver, Solite Lens



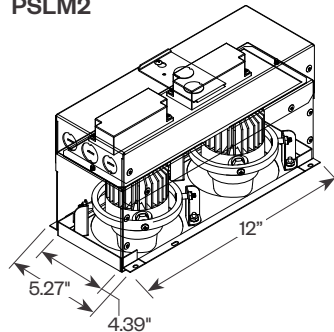
Snoot Accessory Holder, Cross Blade,  
Hexcell Louver, Solite Lens

### Point Source Light Modules

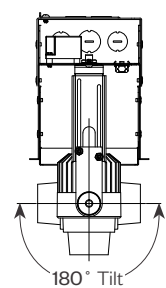
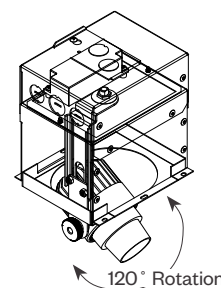
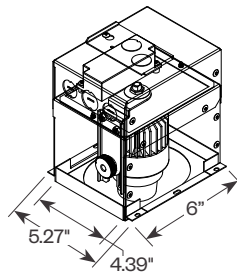
PSLM1



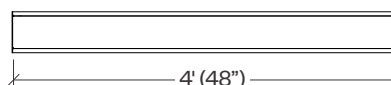
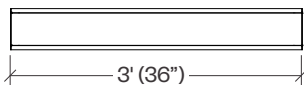
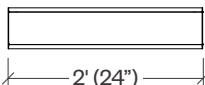
PSLM2



PSLM1PD



### Linear Ambient Light Module Lengths

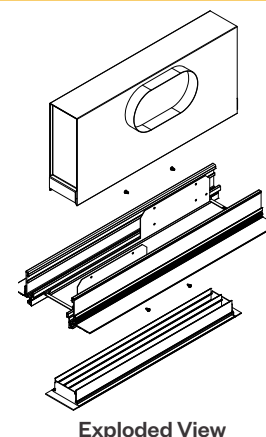
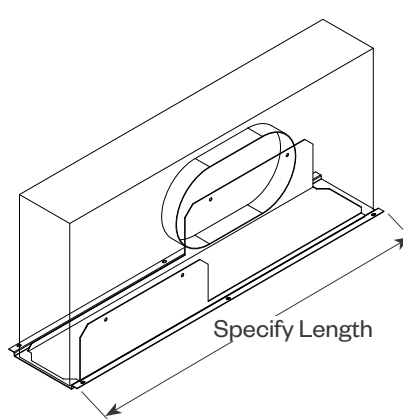
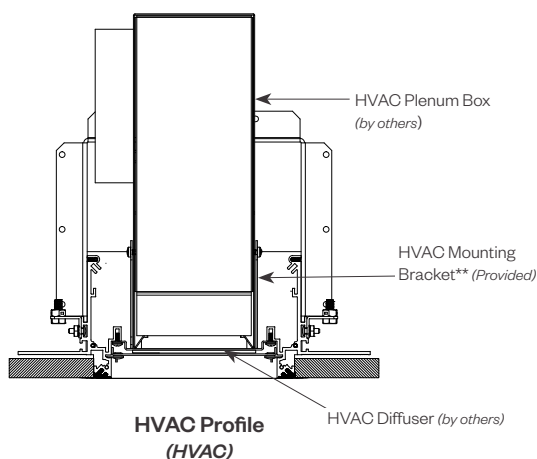
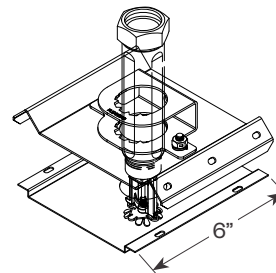
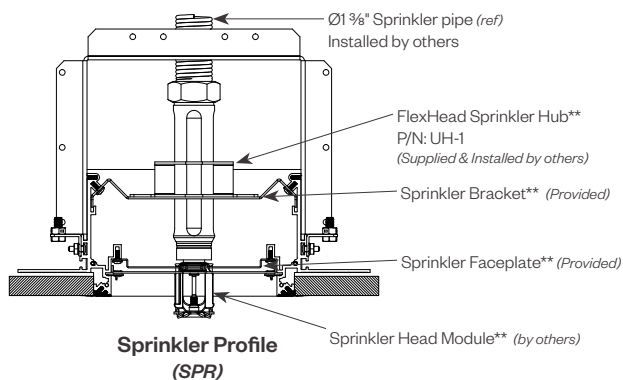




PROJECT:

TYPE:

### Accessory Modules



**Exploded View**

HVAC module is compatible with the following Titus part numbers:

#### TITUS 18" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-18-2HP-08-2B-BLACK-0-XX-0
- DIFFUSER: ML38-18-2-XX-2B-BLACK-0-0-0

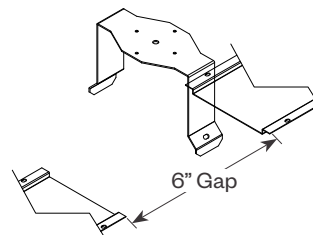
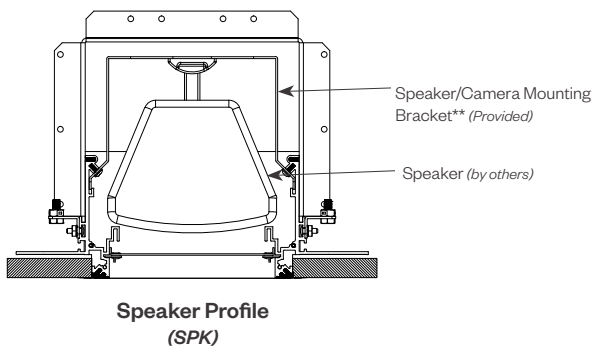
#### TITUS 24" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-24-2HP-08-2B-BLACK-0-XX-0
- DIFFUSER: ML38-24-2-XX-2B-BLACK-0-0-0

#### TITUS 36" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-36-2HP-08-2B-BLACK-0-XX-0
- PLENUM BOX: MPI38-36-2HP-10-2B-BLACK-0-XX-0
- DIFFUSER: ML38-36-2-XX-2B-BLACK-0-0-0

Consult factory for any other compatibility.



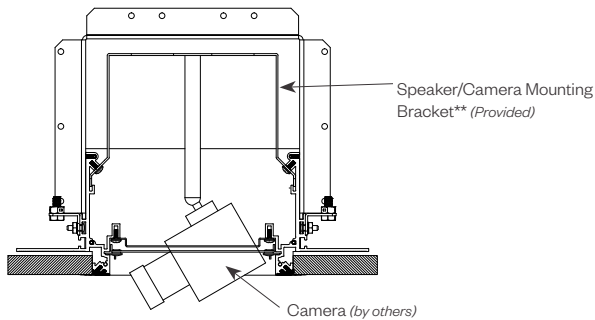
**\*\* All accessory mounting brackets are supplied for the installers convenience. It is the architects/contractors responsibility to make sure that all accessory brackets meet their respective codes and are installed in accordance with all local, fire and building codes.**



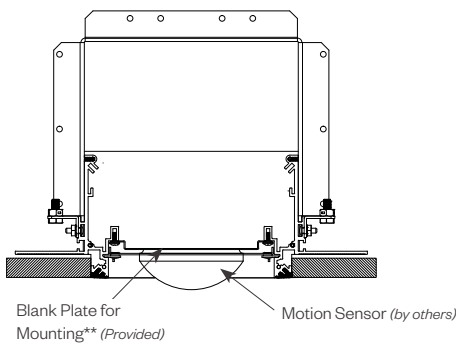
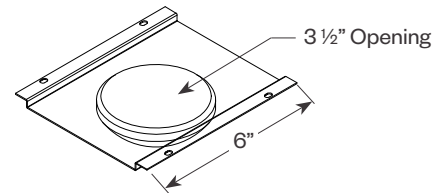
PROJECT:

TYPE:

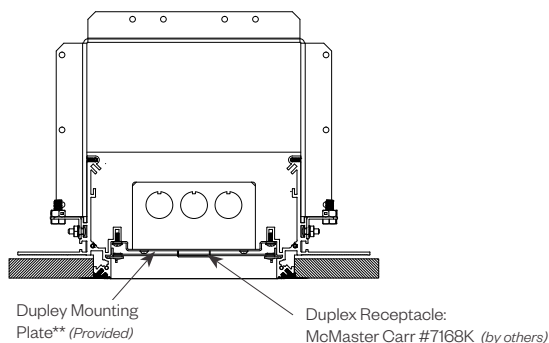
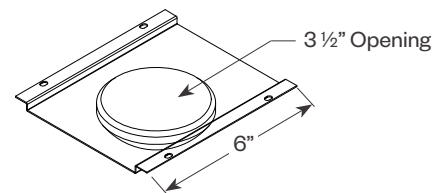
### Accessory Modules (continued)



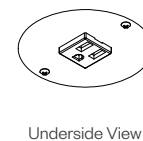
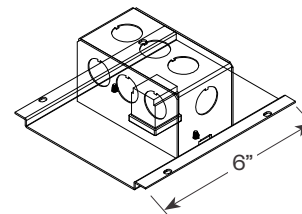
**Camera Profile (CAM)**



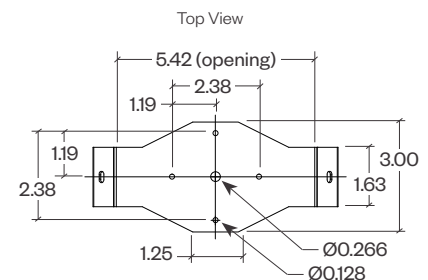
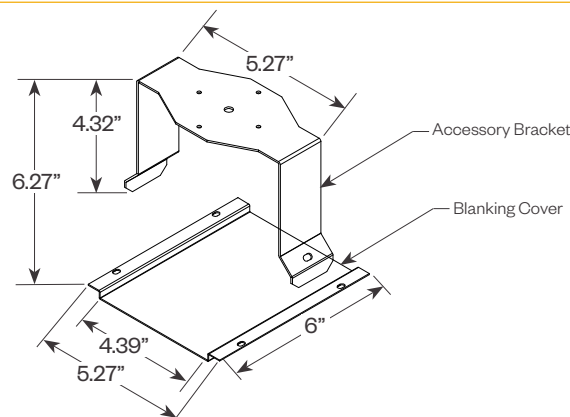
**Motion Sensor Profile (MS)**



**Duplex Profile (DPX)**



### Accessory Mounting Bracket/Cover Profile (AMBC)



\*\* All accessory mounting brackets are supplied for the installers convenience. It is the architects/contractors responsibility to make sure that all accessory brackets meet their respective codes and are installed in accordance with all local, fire and building codes.

PROJECT:

TYPE:

### Performance Data - Point Source Light Module (PSLMxx-HHP)

**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     |

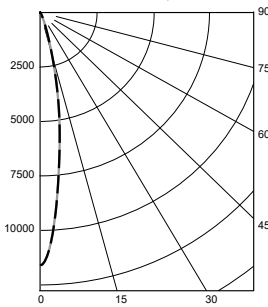
| Wattage: | 11W  | 16W | 18W  |
|----------|------|-----|------|
| Factor:  | 0.71 | 1.0 | 1.13 |

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

\* Not available for use with 18W

#### 16W LED, 3000K-83

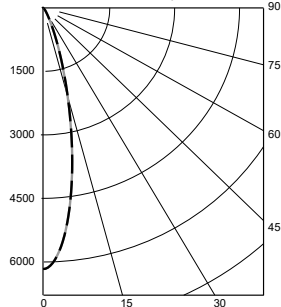
Spot (SP) Distribution, 15°  
LTL #14346087.01  
Lumens: 1,451



Candelas at Nadir

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

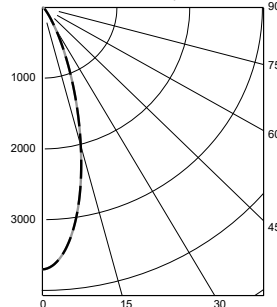
Narrow Flood (NF) Distribution, 22°  
LTL #14346087.02  
Lumens: 1,390



Candelas at Nadir

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

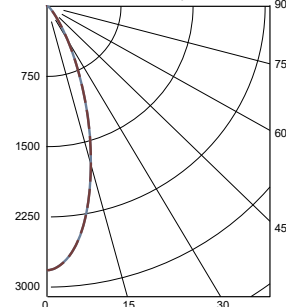
Flood (FL) Distribution, 28°  
LTL #14346087.04  
Lumens: 1,370



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 - Point Source Light Module (PSLMxx-HHP)

#### Notes and Definitions:

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

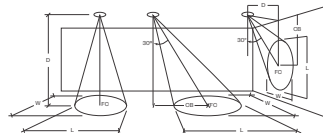
D=Distance to floor or wall.

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<br>Horizontal<br>Footcandles | 30° Aiming Angle<br>Horizontal<br>Footcandles | 30° Aiming Angle<br>Vertical<br>Footcandles | 60° Aiming Angle<br>Vertical<br>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:**

### Performance Data - Linear Ambient Light Module (LALM)

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

| Wattage: | 3W   | 4W   | 5W  | 6W   | 7W   | 8W   | 9W   |
|----------|------|------|-----|------|------|------|------|
| Factor:  | 0.63 | 0.82 | 1.0 | 1.17 | 1.34 | 1.50 | 1.64 |

| CCT:    | 2700K-83 | 3000K-83 | 3500K-83 | 4000K-83 |
|---------|----------|----------|----------|----------|
| Factor: | 0.87     | 0.93     | 1.0      | 1.08     |

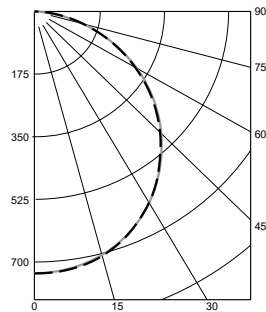
#### 6" DESIGNER LENS 5W 3500K 4FT

Total Watts: 20

Total Lumens: 2,077

Source: 120 White LED's

LTL# 11665872.33



#### ZONAL LUMEN SUMMARY

| Zone   | Lumens | %Fixt |
|--------|--------|-------|
| 0-40   | 931    | 44.8  |
| 0-60   | 1636   | 78.8  |
| 0-90   | 2077   | 100.0 |
| 90-180 | 0      | 0.0   |

Luminaire Efficacy = 103.4 lm/w

#### COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

| RC  | 70   | 50   | 30   | 10   |
|-----|------|------|------|------|
| RW  |      |      |      |      |
| ROR |      |      |      |      |
| 0   | 2415 | 2415 | 2415 | 2415 |
| 1   | 2201 | 2110 | 2028 | 1954 |
| 2   | 1997 | 1839 | 1708 | 1596 |
| 3   | 1817 | 1616 | 1457 | 1330 |
| 4   | 1663 | 1432 | 1261 | 1128 |
| 5   | 1529 | 1281 | 1104 | 972  |
| 6   | 1412 | 1154 | 977  | 849  |
| 7   | 1310 | 1047 | 874  | 750  |
| 8   | 1221 | 957  | 787  | 669  |
| 9   | 1141 | 879  | 715  | 603  |
| 10  | 1071 | 812  | 653  | 546  |

Note: Values expressed as Lumens delivered to the task surface.

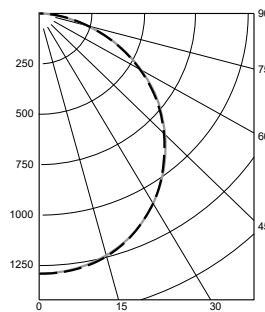
#### 6" DESIGNER LENS 10W 3500K 4FT

Total Watts: 38

Total Lumens: 3,671

Source: 120 White LED's

LTL# 11665872.34



#### ZONAL LUMEN SUMMARY

| Zone   | Lumens | %Fixt |
|--------|--------|-------|
| 0-40   | 1641   | 44.7  |
| 0-60   | 2888   | 78.7  |
| 0-90   | 3671   | 100.0 |
| 90-180 | 0      | 0.0   |

Luminaire Efficacy = 96.7 lm/w

#### COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

| RC  | 70   | 50   | 30   | 10   |
|-----|------|------|------|------|
| RW  |      |      |      |      |
| ROR |      |      |      |      |
| 0   | 4268 | 4268 | 4268 | 4268 |
| 1   | 3888 | 3728 | 3584 | 3453 |
| 2   | 3527 | 3249 | 3017 | 2819 |
| 3   | 3211 | 2854 | 2573 | 2348 |
| 4   | 2937 | 2529 | 2226 | 1991 |
| 5   | 2701 | 2262 | 1949 | 1716 |
| 6   | 2495 | 2038 | 1725 | 1498 |
| 7   | 2314 | 1849 | 1542 | 1324 |
| 8   | 2156 | 1689 | 1389 | 1181 |
| 9   | 2016 | 1551 | 1261 | 1063 |
| 10  | 1892 | 1433 | 1153 | 964  |

Note: Values expressed as Lumens delivered to the task surface.

PROJECT:

TYPE:

### Performance Data - Linear Ambient Light Module (LALM) (continued)

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

| Wattage: | 3W   | 4W   | 5W  | 6W   | 7W   | 8W   | 9W   |
|----------|------|------|-----|------|------|------|------|
| Factor:  | 0.63 | 0.82 | 1.0 | 1.17 | 1.34 | 1.50 | 1.64 |

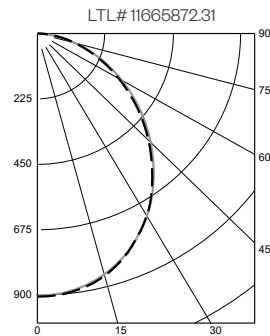
| CCT:    | 2700K-83 | 3000K-83 | 3500K-83 | 4000K-83 |
|---------|----------|----------|----------|----------|
| Factor: | 0.87     | 0.93     | 1.0      | 1.08     |

#### 6" PERFORMANCE LENS 5W 3500K 4FT

Total Watts: 20

Total Lumens: 2,304

Source: 120 White LED's



#### ZONAL LUMEN SUMMARY

| Zone   | Lumens | %Fixt |
|--------|--------|-------|
| 0-40   | 1105   | 48.0  |
| 0-60   | 1865   | 80.9  |
| 0-90   | 2304   | 100.0 |
| 90-180 | 0      | 0.0   |

Luminaire Efficacy = 114.7 lm/w

#### COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

| RC  | 70   | 50   | 30   | 10   |
|-----|------|------|------|------|
| RW  |      |      |      |      |
| ROR |      |      |      |      |
| 0   | 2679 | 2679 | 2679 | 2679 |
| 1   | 2450 | 2354 | 2266 | 2187 |
| 2   | 2232 | 2064 | 1923 | 1803 |
| 3   | 2039 | 1822 | 1652 | 1515 |
| 4   | 1871 | 1622 | 1437 | 1294 |
| 5   | 1724 | 1456 | 1265 | 1122 |
| 6   | 1596 | 1316 | 1125 | 986  |
| 7   | 1483 | 1197 | 1009 | 875  |
| 8   | 1383 | 1096 | 912  | 784  |
| 9   | 1295 | 1009 | 830  | 708  |
| 10  | 1216 | 933  | 760  | 644  |

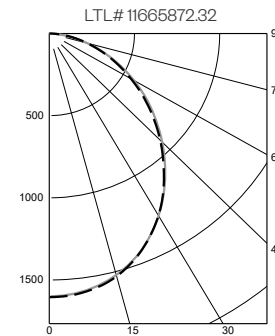
Note: Values expressed as Lumens delivered to the task surface.

#### 6" PERFORMANCE LENS 10W 3500K 4FT

Total Watts: 38

Total Lumens: 4,079

Source: 120 White LED's



#### ZONAL LUMEN SUMMARY

| Zone   | Lumens | %Fixt |
|--------|--------|-------|
| 0-40   | 1956   | 48.0  |
| 0-60   | 3299   | 80.9  |
| 0-90   | 4079   | 100.0 |
| 90-180 | 0      | 0.0   |

Luminaire Efficacy = 107.5 lm/w

#### COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

| RC  | 70   | 50   | 30    | 10   |
|-----|------|------|-------|------|
| RW  |      |      |       |      |
| ROR |      |      |       |      |
| 0   | 4743 | 4743 | 4743  | 4743 |
| 1   | 4338 | 4167 | 40412 | 3872 |
| 2   | 3952 | 3653 | 3404  | 3192 |
| 3   | 3609 | 3225 | 2924  | 2681 |
| 4   | 3312 | 2872 | 2544  | 2291 |
| 5   | 3052 | 2577 | 2239  | 1987 |
| 6   | 2825 | 2330 | 1991  | 1745 |
| 7   | 2625 | 2120 | 1786  | 1549 |
| 8   | 2449 | 1940 | 1614  | 1388 |
| 9   | 2292 | 1786 | 1470  | 1253 |
| 10  | 2153 | 1652 | 1346  | 1140 |

Note: Values expressed as Lumens delivered to the task surface.

PROJECT:

TYPE:

### Dimming Compatibility

Amerlux® MESA 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 ---

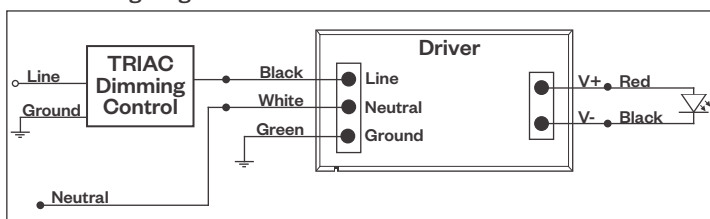
#### TRIAC (Forward Phase) Dimming

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"        |                      |

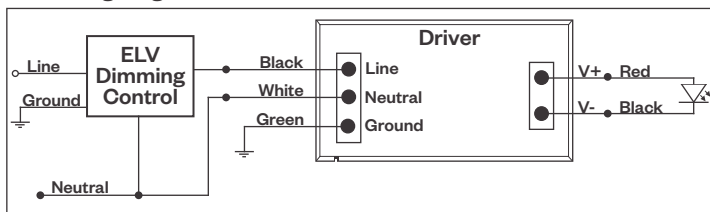
#### ELV - Electronic Low Voltage (Reverse Phase) Dimming

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.

### PROJECT:

### TYPE:

### Dimming Compatibility *(continued)*

Amerlux® MESA 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 ---**

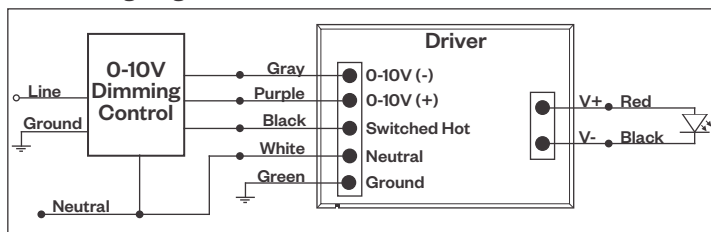
#### 0-10V Dimming

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

Lutron "Diva" - DVSTV    Leviton Renoir II 0-10V

##### Central System

Lutron Grafik Eye with GRX-TVI Interface

#### Lutron LDE1 Dimming

Integrates into Lutron EcoSystem building management

##### Notes:

- 120VAC or 277VAC\*
- Dims down to 1% Soft-On/Fade-to-Black
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

#### Compatible Dimmers\*:

##### Lutron ECO System

Pow Pak Dimming Modules

Energi Savr Node

Grafik Eye QS/Homeworks

QS Control Unit

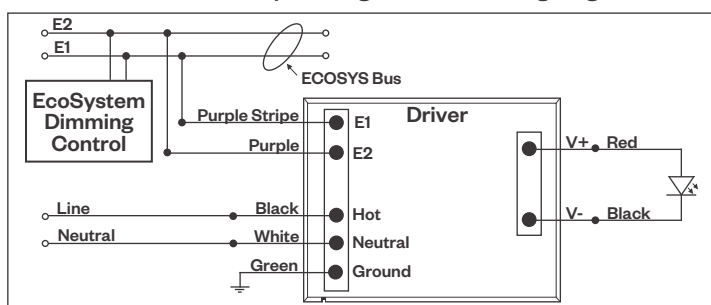
Quantum Hub

Homeworks QS/My Room

##### Central System

Lutron EcoSystem compatible controls

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



#### DALI Dimming

Digital control protocol allows individual fixture control

##### Notes:

- 120VAC - 277VAC\*
- Dims down to 1% light output in most cases

#### Compatible Dimmers\*:

##### Wall Box (3-Wire Fluorescent)

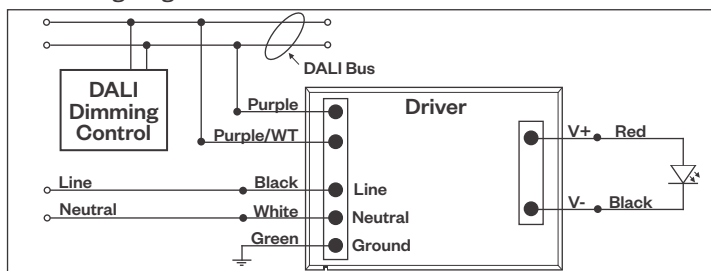
Leviton CD250 Controller

##### Central System

Dynalite

Fifth Light

#### DALI 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.