# Ametrix

## DESCRIPTION

The ASYX 2.0 second generation of asymmetric lighting is designed for general ambient illumination and accenting architectural features. The luminaire allows for both forward and wide distributions as well four different color temperatures to accommodate any space. The ASYX 2.0 utilizes the patented and highly efficient AccuLED Optics™ system for industry leading performance. IP66 rated and optional natatorium finish.

| Catalog # | | Type | |
|---|---|---|---|
| Project | | | |
| Comments | | Date | |
| Prepared by | | | |

## SPECIFICATION FEATURES

### Construction
Heavy-wall die cast aluminum end caps with extruded aluminum housing. Housing fins allow for air flow and thermal management. Fixture is rated to 40˚C. Weight: 35 lbs

### Electrical
Standard drivers feature electronic universal voltage (120-277V/ 50-60 Hz), greater than 0.9 power factor, less than 20% harmonic distortion, and ambient temperature range of 40˚C (104˚F) to minimum starting temp of -30˚C (-22˚F). 0-10V dimming standard with DALI option available. Max amp draw @120V is 1.5 Amps.

### LED Optics
ASYX 2.0 luminaire utilizes patented, high efficiency AccuLED Optics with specific optical distributions. Each lens is injection molded for precision, arranged and sealed onto a board substrate. LEDs are industry leading high output with standard product at 93% lumen maintenance at 60,000 hours. Offered in 80+ CRI for 2700K, 3000K, and 3500K CCT, and 70+ CRI for 4000K CCT. The ASYX 2.0 also offers +/- 90˚, or 180˚ rotated optics to adjust distribution for any location. The HSS option provides maximum backlight control.

### Mounting
Die cast adjustable knuckle, bolts to housing. Fixture mounts to recessed junction box (by others) using wall plate, or surface mount box with conduit entry option. See installation instructions for mounting conditions to ensure adequate support. Fixture has continuous adjustability, 20˚ up to 20˚ down with locking mechanism, as well as upward facing or downward facing.

### Finish
Fixture housing is coated using electrostatically charged polyester powder coat paint for superior protection against fade and wear. Mounting plate and all accessories to match specified color of luminaire housing. Standard colors include white, silver, black, bronze, and custom RAL color match available.

### Compliance
Components are UL recognized and luminaires are cULus listed for 40˚C ambient environments, wet location listed, and RoHS compliant. IP66 Rated.

### Environment
Suited for indoor, outdoor (wet location listed, IP66 rated). See details below. Natatorium fixtures are also suitable for applications in salt water environments.

### Natatorium
Construction consists of specialized protective coating on all metal components, stainless steel hardware, and sealed LEDs. 80% lumen maintenance at 60,000 hours. Salt Fog testing per ASTM B117-73.

### Control
Standard offering is 0-10V dimming down to 10%. A Fifthlight DALI adapter is available for DALI compatibility. An integrated sensor is available with the standard driver for standalone occupancy detection and daylight sensing.

### Life and Warranty
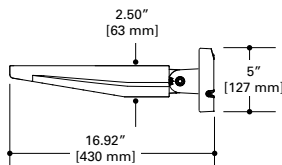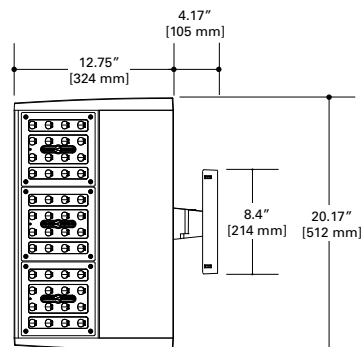Standard five-year limited warranty on all parts.
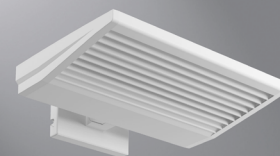
## ASYX-WM S3
### LED

**Wall Mount**
Asymmetric Direct
Asymmetric Indirect

**CERTIFICATION DATA**
UL/cUL Wet Location Listed
LM79 / LM80 Compliant
IP66 Rated
DLC qualified product

**ENERGY DATA**
>0.9 Power Factor
<20% Total Harmonic Distortion
120V - 277V 50/60 Hz
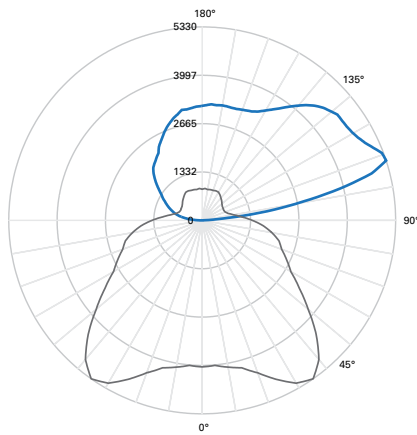-30˚C Min Temperature
40˚C Max Temperature

Dimensions:
- 4.17" [105 mm]
- 12.75" [324 mm]
- 8.4" [214 mm]
- 20.17" [512 mm]
- 2.50" [63 mm]
- 5" [127 mm]
- 16.92" [430 mm]

## ORDERING INFORMATION

**Sample Number: ASYX-WM-S3-ID-U-F-L35-1-UNV-W-R-STD-SVPD2-R90**

| Series | Mounting | Size | Light Level | Environment | Orientation(1) | Distribution | Color Temperature (Wattage for WM-S3 = 157.6 W) | | | | # of Circuits | Input Voltage |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | L27 Delivered Lumens | L30 Delivered Lumens | L35 Delivered Lumens | L40 Delivered Lumens | | |
| **ASYX** = Asymmetric LED Luminaire | **WM** = Wall Mount | **S** = Small | **3** = 3 Light Square, (see Color Temp for CCT, lumen output, and wattage) | **ID** = Indoor<br>**OD** = Outdoor<br>**NT** = Natatorium | **U** = Uplight<br>**D** = Downlight | **F** = Forward throw | 12,832 | 13,494 | 14,156 | 16,456 | **1** | **UNV**<br>**347** |
| | | | | | | **W** = Wide throw | 12,988 | 13,658 | 14,328 | 16,656 | | |
| | | | | | | **HSS** = Backlight Shielded | 8,597 | 9,041 | 9,484 | 11,025 | | |

| Finish | Mounting Surface | Extension Arm Length(2,4) | Driver Options | Integral Control(1)(3) (Optional) | Optical Orientation (Optional) | Options(4) (Optional) | Accessories(2) (Optional) |
|---|---|---|---|---|---|---|---|
| **W** = White<br>**S** = Silver<br>**B** = Black<br>**Z** = Bronze<br>**C** = Custom Color | **R** = Mounting Plate (recessed j-box)<br>**C** = Canopy Box (surface j-box) | **18** = (18" extension arm)<br>**30** = (30" extension arm)<br>**XX** = Custom length. (Specify length from 10" to 30") (XX) custom extension arm lengths require longer production lead times | **STD** = Standard 0-10V<br>**5LT-DAC** = Fifth Light DALI DAC | **SVPD2** = Standalone Occupancy/ Daylight Sensor | R**90** = Optics Rotated 90° right from standard<br>**L90** = Optics Rotated 90° left from standard<br>**180** = Optics Rotated 180° from standard | **RM** = Rigid Fixed Knuckle<br>**FM** = Flush Mount | **ISHH-01-A** = Programming Remote for field adjustment of integrated sensor<br>**ISHH-02-A** = Programming Remote for temporay control of integrated sensor |

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See page 3 for Technical Notes.

Specifications and dimensions subject to change without notice.
See additional information on the following pages.

## PHOTOMETRICS



Vertical Distribution through peak candela

Horizontal Distribution through peak candela

**FILE NAME:** ASYX-X-S3-X-U-F-L40-1-UNV-X-X-X-STD

**LAMP:** 4000K

**OPTICAL DISTRIBUTION:** Forward

**DELIVERED LUMENS:** 16456.4

**INPUT WATTS:** 157.6 W

**EFFICACY:** 104.4 LPW

**TEST REPORT:** P213142

### ZONAL LUMEN SUMMARY

| Zone | Delivered Lumens | % Fixture |
|---|---|---|
| 90°-100° | 526.6 | 0.032 |
| 100°-110° | 2211.7 | 0.1344 |
| 110°-120° | 3011.5 | 0.183 |
| 120°-130° | 2955.6 | 0.1796 |
| 130°-140° | 2674.2 | 0.1625 |
| 140°-150° | 2154.1 | 0.1309 |
| 150°-160° | 1589.7 | 0.0966 |
| 160°-170° | 1059.8 | 0.0644 |
| 170°-180° | 339.0 | 0.0206 |
| 0°-180° | 16456.4 | 1 |

## LUMEN MAINTENANCE

| Ambient Temperature | TM-21 Lumen Maintenance (60,000 Hours) | Theoretical L90 (Hours) |
|---|---|---|
| 25°C | > 96% | 130,000 |
| 35°C | > 93% | 91,000 |
| 40°C | > 95% | 117,000 |

## DISTRIBUTION

**F** - Forward Throw Distribution

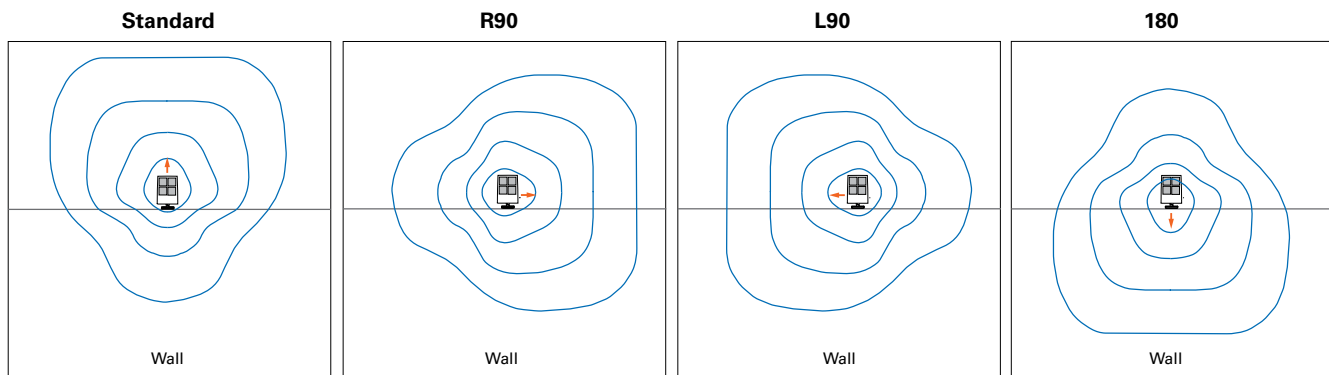**W** - Wide Throw Distribution

**HSS** - HSS Distribution
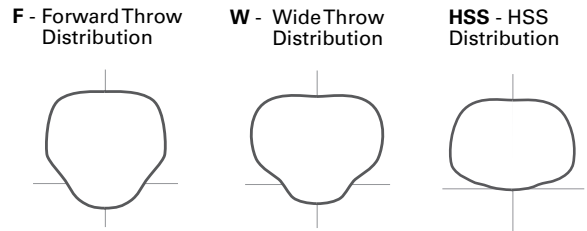


## PRODUCT LINE OVERVIEW

**ASYX 2.0 SUMMARY TABLE** (Based on 4000K, Wide Throw Distribution)

| PRODUCT NAME: | MOUNTING | SL | S1 | S2 | S3 | S4 | L3 | L4 | L5 | L6 |
|---|---|---|---|---|---|---|---|---|---|---|
| **NUMBER OF LIGHT SQUARES:** | | 1 | 1 | 2 | **3** | 4 | 3 | 4 | 5 | 6 |
| **DELIVERED LUMENS:** | WM/SP | 3,355 | 5,419 | 11,084 | **16,656** | 22,323 | 17,287 | 22,512 | 28,879 | 34,072 |
| | DP | 6,710 | 10,838 | 22,168 | **33,312** | 44,646 | 34,574 | 45,024 | 57,758 | 68,144 |
| | QP | 13,420 | 21,676 | 44,336 | **66,624** | 89,292 | 69,148 | 90,048 | 115,516 | 136,288 |
| **WATTAGE:** | WM/SP | 28 | 55 | 107 | **158** | 214 | 160 | 215 | 268 | 319 |
| | DP | 55 | 110 | 214 | **316** | 428 | 320 | 430 | 536 | 638 |
| | QP | 111 | 220 | 428 | **632** | 856 | 640 | 860 | 1,072 | 1,276 |
| **LPW:** | | 121 | 99 | 104 | **105** | 104 | 108 | 105 | 108 | 107 |
| **HID EQUIVALENT:** | WM/SP | 39 W | 70 W | 150 W | **250 W** | 320 W | 250 W | 320 W | 400 W | 2 x 250 W |

## OPTIC ORIENTATION

**Standard**



Wall

**R90**



Wall

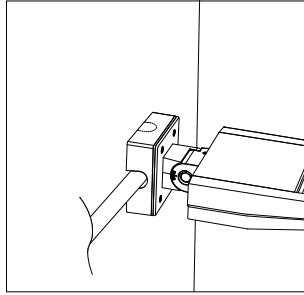**L90**



Wall

**180**



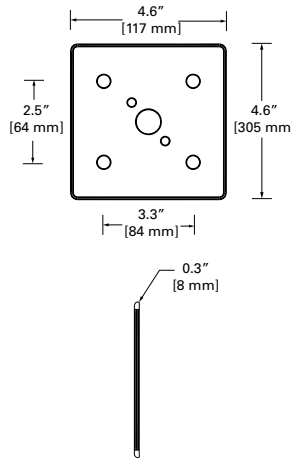Wall

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## MOUNTING AND AIMING

**R -** Recessed junction box option: 8.4" x 5" wall plate mounts to standard junction box.
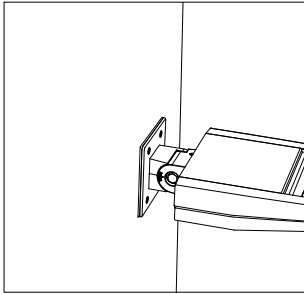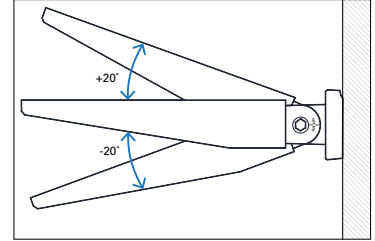
**C** - Conduit Entry option: Surface metal box fits over standard junction box with conduit entry option on all sides.
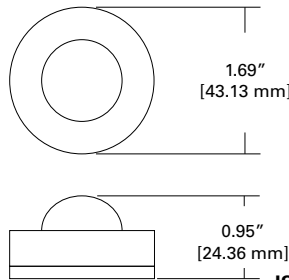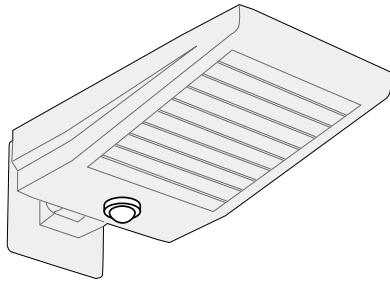
Mounting Plate

The ASYX 2.0 features +/-20˚ adjustable aiming as standard

4.6" [117 mm]

2.5" [64 mm]

4.6" [305 mm]

3.3" [84 mm]

0.3" [8 mm]

+20˚

-20˚

## CONTROL

1.69" [43.13 mm]

0.95" [24.36 mm]

**SVPD2 -** The integral sensor option requires no additional wiring or special installation. The sensor provides standalone occupancy detection using a passive infrared sensor and provides daylight sensing using a closed-loop harvesting system. Depending on the "Environment" specified for Asyx, the following settings will be default:
- Indoor - Turns on/off with occupancy, daylight harvests down to 10% output
- Outdoor - Turns on/off with occupancy, turns off with sufficient daylight
- Natatorium - Full output with occupancy, 50% after occupancy timeout period, daylight harvests down to 10% output
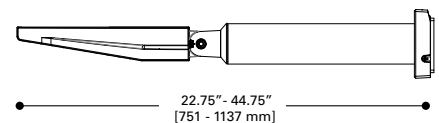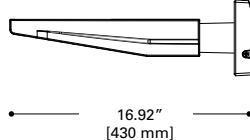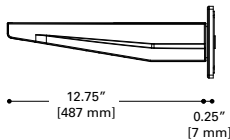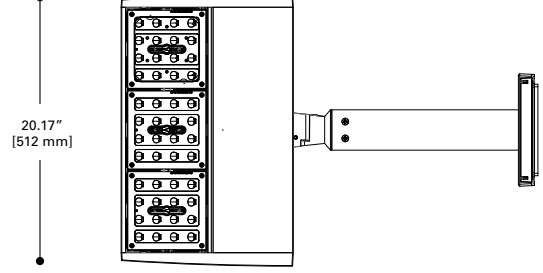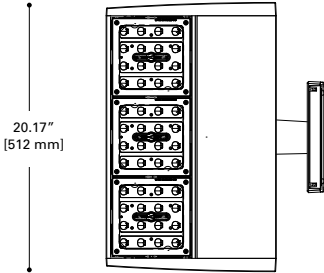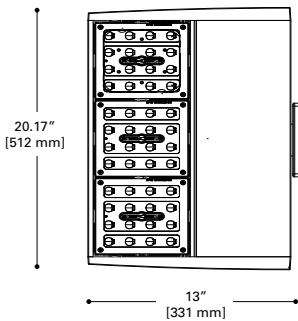
**ISHH-01-A -** Programming Remote for field adjustment of Integrated Sensor
**ISHH-02-A -** Programming Remote for temporary control of Integrated Sensor

## OPTIONS

**FM** - Optional flush mount option for minimized affect. FM option is not adjustable.

**RM** - Optional rigid knuckle mount for down ward facing, fixed applications. Available in standard optic orientation only.

Extension Arm Length: Specify to the inch between min and max length

20.17" [512 mm]

13" [331 mm]

12.75" [487 mm]

0.25" [7 mm]

20.17" [512 mm]

16.92" [430 mm]

20.17" [512 mm]

12.75" [324 mm]

10" - 32" [254 - 813 mm]

22.75" - 44.75" [751 - 1137 mm]

## TECHNICAL NOTES

1. Integral Sensor cannot be selected in "D", downlight orientation. Integral sensor available in single circuit option only and is not available with DALI option. Integral sensor optimum coverage height: 8ft for SL/S1/S2 and 40ft for S3/S4/L3/L4/L5/L6. Integral sensor color is white for "White" finish selection and brown for "silver, bronze, or black" finish selections.
2. Not available with "C" surface mount junction box option.
3. See "Control" section for explanation..
4. RM and FM options are not available with Extension Stem Lengths

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