

**APPENDIX B**  
**AMETRIX ASYX SP L6 FIXTURE**  
**SPECIFICATION SHEET**

## 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 natorium finish.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

## SPECIFICATION FEATURES

### Construction

Extruded aluminum housing and heat sink with die cast end caps. Housing fins allow for air flow and thermal management. Fixture is rated to 30°C Weight: 51 lbs (Includes housing and knuckle. Pendant stem weight varies)

### Electrical

Standard drivers feature electronic universal voltage (120-277V/ 50-60 Hz), great than 0.9 power factor, less than 20% harmonic distortion, and features ambient temperature range of 30°C (86°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, 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 30°C ambient environments, wet location listed, and RoHS compliant.

### Environment

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

### Natorium

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.

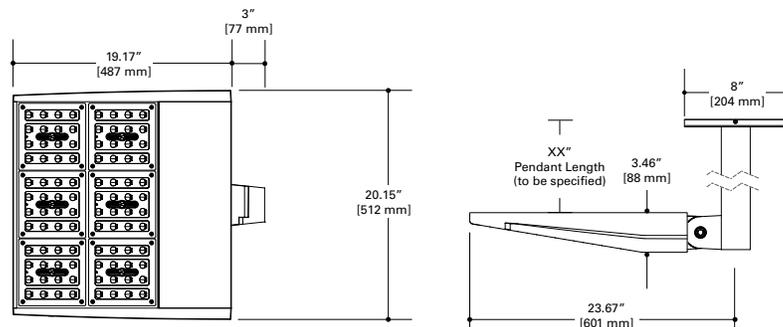


## ASYX-SP L6 LED

**Single Pendant**  
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  
30°C Max Temperature



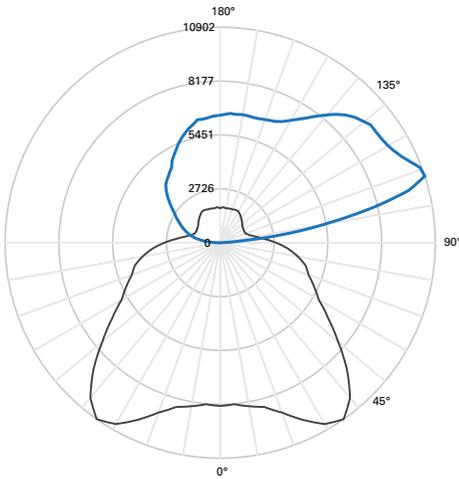
## ORDERING INFORMATION

Sample Number: ASYX-SP-L6-ID-U-F-L35-1-UNV-W-R-118-STD-SVPD2-R90

Series	Mounting	Size	Light Level	Environment <sup>(3)</sup>	Orientation <sup>(1)</sup>	Distribution	Color Temperature (Wattage for SP-L6 = 319 W)				# of <sup>(2)</sup> Circuits	Input Voltage	
							L27 Delivered Lumens	L30 Delivered Lumens	L35 Delivered Lumens	L40 Delivered Lumens			
ASYX = Asymmetric LED Luminaire	SP = Single Pendant	L = Large	6 = 6 Light Squares, (see Color Temp for CCT, lumen output, and wattage)	ID = Indoor NT = Natorium	U = Uplight D = Downlight		L27	L30	L35	L40	1 2	UNV 347	
							F = Forward throw	26,249	27,603	28,958			33,663
							W = Wide throw	26,568	27,939	29,310			34,072
						HSS = Backlight Shielded	17,586	18,494	19,401	22,553			

Finish	Mounting Surface	Pendant Length	Driver	Integral Control <sup>(1)(4)</sup> (Optional)	Optical Orientation (Optional)	Options (Optional)	Accessories <sup>(4)</sup> (Optional)
W = White S = Silver B = Black Z = Bronze C = Custom Color	R = Mounting Plate C = Surface Canopy AR = Adjustable sloped Adapter for recessed junction box AC = Adjustable sloped Adapter for surface mount (conduit)	32 = (32" pendant stem) 48 = (48" pendant stem) 96 = (96" pendant stem) XX = Custom length. (Specify length from 24" to 120") (XX) Custom pendant lengths require longer production lead times	STD = Standard 0-10V 5LT-DAC = Fifth Light DALI DAC	SVPD2 = Standalone Occupancy/Daylight Sensor	R90 = Optics Rotated 90° right from standard L90 = Optics Rotated 90° left from standard 180 = Optics Rotated 180° from standard	RM = Rigid Fixed Knuckle FM = Flush Mount	ISHH-01-A = Programming Remote for field adjustment of integrated sensor ISHH-02-A = Programming Remote for temporary control of integrated sensor

**PHOTOMETRICS**



**FILE NAME: ASYX-X-L6-X-U-F-L40-1-UNV-X-X-X-STD**

**LAMP: 4000K**

**OPTIC DISTRIBUTION: Forward**

**DELIVERED LUMENS: 33663.0**

**INPUT WATTS: 319.2 W**

**EFFICACY: 105.5 LPW**

**TEST REPORT: P213148**

**ZONAL LUMEN SUMMARY**

Zone	Delivered Lumens	% Fixture
90°-100°	1077.2	0.032
100°-110°	4524.3	0.1344
110°-120°	6160.3	0.183
120°-130°	6045.9	0.1796
130°-140°	5470.2	0.1625
140°-150°	4406.5	0.1309
150°-160°	3251.8	0.0966
160°-170°	2167.9	0.0644
170°-180°	693.5	0.0206
0°-180°	33663.0	1

Vertical Distribution through peak candela

Horizontal Distribution through peak candela

**LUMEN MAINTENANCE**

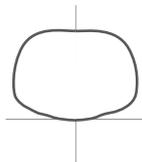
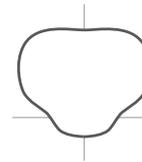
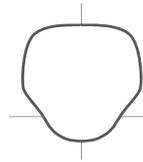
Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L90 (Hours)
25°C	> 96%	130,000
35°C	> 93%	91,000
40°C	> 95%	117,000

**DISTRIBUTION**

**F - Forward Throw Distribution**

**W - Wide Throw Distribution**

**HSS - HSS Distribution**

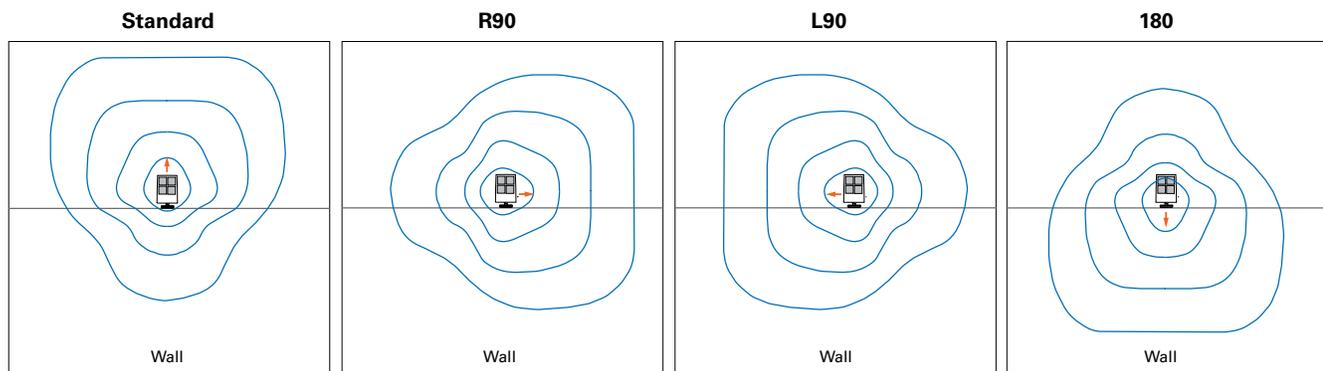


**PRODUCT LINE OVERVIEW**

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

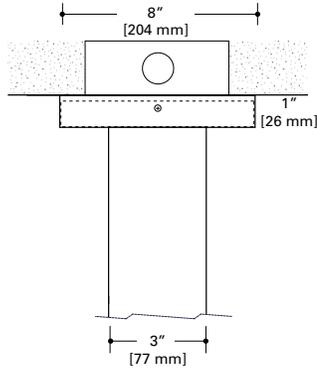
PRODUCT NAME:	MOUNTING	SL	S1	S2	S3	S4	L3	L4	L5	L6
<b>NUMBER OF LIGHT SQUARES:</b>		1	1	2	3	4	3	4	5	6
<b>DELIVERED LUMENS:</b>	<b>WM/SP</b>	3,355	5,419	11,084	16,656	22,323	17,287	22,512	28,879	<b>34,072</b>
	<b>DP</b>	6,710	10,838	22,168	33,312	44,646	34,574	45,024	57,758	<b>68,144</b>
	<b>QP</b>	13,420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

**OPTIC ORIENTATION**

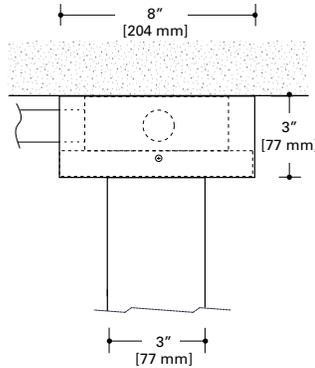


**MOUNTING**

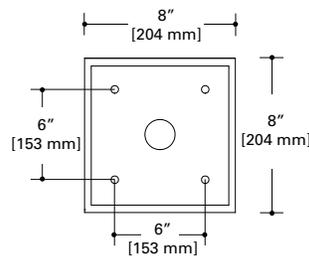
**R - Recessed junction box option:**  
8.4" x 5" wall plate mounts to standard junction box.



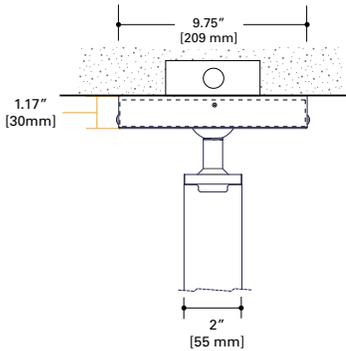
**C - Conduit Entry option:**  
Surface metal box fits over standard junction box with conduit entry option on all sides.



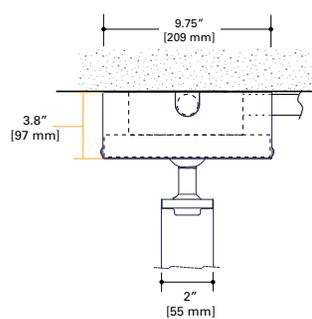
Mounting Plate



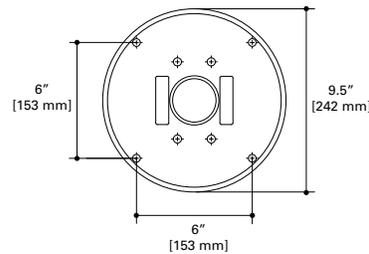
**AR - Adjustable Sloped Adapter for recessed junction box**



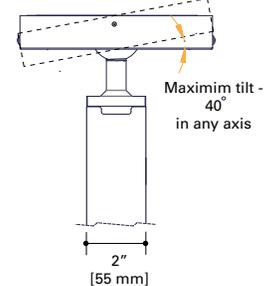
**AC - Adjustable Sloped Adapter for surface junction box**



Mounting Plate



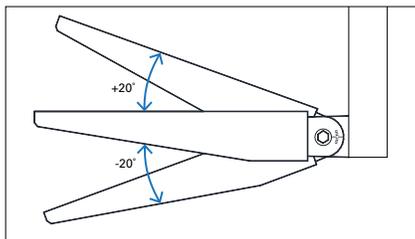
Sloped Adapter has up to 40° tilt in any sloped ceiling condition



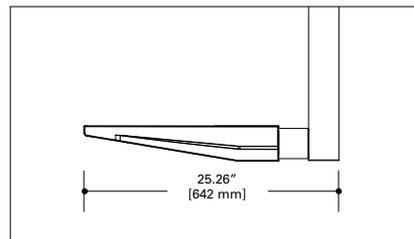
Adjustable Sloped Adapter that can mount in any axis due to ball and socket joint. Available for recessed junction box or surface junction box.

**AIMING**

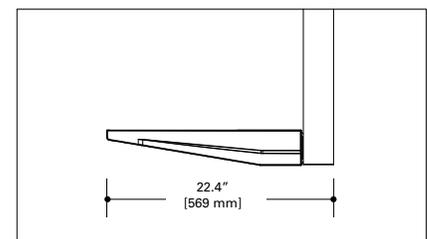
The ASYX 2.0 features +/-20° adjustable aiming as standard



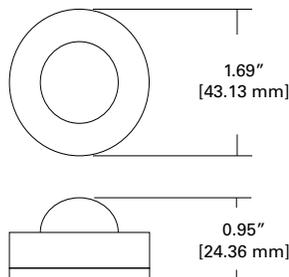
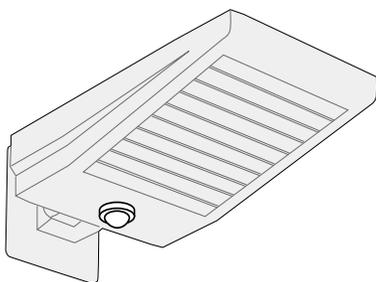
**RM - Optional rigid knuckle mount for downward facing, fixed applications.** Available in standard optic orientation only.



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



**CONTROL**



**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

**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. Second circuit option allows for 2nd driver to be wired separately.
3. Type L6 is suited for dry, damp and wet locations for indoor ambient temperatures up to 30 C as it is IP66 certified. Type L6 is also suited for natatorium locations. Type L6 is not suited for outdoor locations.
4. See "Control" section for explanation.