# ASL
# LED SERIES
AREA/SITE/ROAD LIGHTER

Cat.#

Job

Type

HUBBELL® Outdoor Lighting

Approvals

## SPECIFICATIONS

**Construction:**
- Stylish vertically finned die-cast and extruded aluminum for maximum heat dissipation
- Separate optical and electrical compartment for improved thermal management and optimum component operation
- EPA: 8L – .50ft$^2$
  16L – .62 ft$^2$
  24L – .74 ft$^2$

**Optics:**
- Premium engineered individual acrylic lenses deliver IES Type II, III, IV and V distributions
- Lens distributions are field rotatable (in 90˚ increments) or exchangeable for job site fine-tuning
- 3000K, 4000K, or 5000K (70 CRI) CCT
- Zero uplight

**Electrical:**
- Configured with 8, 16, or 24 high current and high output LEDs to replace 150, 250 and 400w HID respectively
- Universal 120-277 VAC input voltage, 50/60 Hz
- Single driver, 2100mA drive current
- Ambient operating temperature -40˚ C to 40˚ C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 10KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is consumed

**Controls:**
- 0-10V dimming standard photocell, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- Dimming leads can be pulled for use with remote control devices, order as special

**Installation:**
- Tool-less entry to wiring/driver compartment
- Universal mounting block works with #2 drill pattern (See page 4 illustration)
- Fixture ships with slotted mounting block to accomodates wide range of drill patterns for easy retrofit opportunities (See page 4 illustration for dimensions)
- Mast arm fitter accessory or option available for 2-3/8" OD brackets

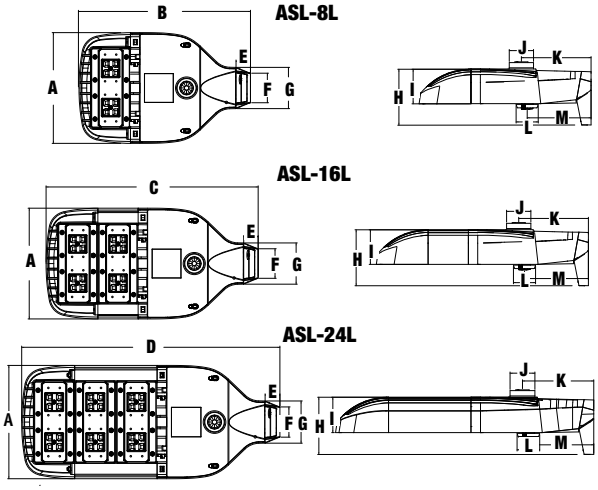
**Finish:**
- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

**Warranty:**
Five year limited warranty (for more information visit: http://www.hubbelloutdoor.com/resources/warranty/

**Listings:**
- DesignLights Consortium (DLC) qualified, consult DLC website for more details: http://www.designlights.org/QPL
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- IP65 optical assembly
- IDA approved

## PRODUCT IMAGE(S)

## DIMENSIONS




| A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|
| 11.7" 297 mm | 17.25" 438 mm | 22.4" 569 mm | 26.6" 675 mm | 1.5" 38 mm | 3.1" 78 mm | 4.3" 109 mm |

| H | I | J | K | L | M |
|---|---|---|---|---|---|
| 5.9" 150 mm | 3.6" 91 mm | 2.5" 63 mm | 7.4" 188 mm | 2.3" 58 mm | 6.7" 170 mm |

## SHIPPING INFORMATION

| Catalog Number | G.W(kg)/ CTN | Carton Dimensions | | |
|---|---|---|---|---|
| | | Length Inch (cm) | Width Inch (cm) | Height Inch (cm) |
| ASL-8L | 15 (6.8) | 20.75 (52.7) | 15.125 (38.4) | 6.9375 (17.6) |
| ASL-16L | 19 (8.6) | 25 (63.5) | 15.125 (38.4) | 6.9375 (17.6) |
| ASL-24L | 24 (10.8) | 25 (63.5) | 15.125 (38.4) | 6.9375 (17.6) |

## CERTIFICATIONS/LISTINGS

## ORDERING INFORMATION - STOCK CONFIGURATIONS

| Catalog Number | Description | Distribution | Wattage | # Drivers Drive Current | Voltage | Color Temperature | Lumens | LPW | Weight lbs. (kg) |
|---|---|---|---|---|---|---|---|---|---|
| ASL-16L-3 | Medium size 16 LED configuration, Dark Bronze | Type III | 123 | 1@2100mA | 120V-277V | 4000K | 11153 | 91 | 18 (8.16) |
| ASL-16L-4 | Medium size 16 LED configuration, Dark Bronze | Type IV | 123 | 1@2100mA | 120V-277V | 4000K | 11417 | 93 | 18 (8.16) |
| ASL-24L-3 | Large size 24 LED configuration, Dark Bronze | Type III | 181 | 1@2100mA | 120V-277V | 4000K | 16364 | 91 | 20 (9.07) |
| ASL-24L-4 | Large size 24 LED configuration, Dark Bronze | Type IV | 181 | 1@2100mA | 120V-277V | 4000K | 16752 | 93 | 20 (9.07) |

## CONFIGURABLE ORDERING INFORMATION NEXT PAGE

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## *ORDERING INFORMATION*

ORDERING EXAMPLE: ASL-A-24L4K-210-4-U-DB

| ASL | - | | - | | | - | 210 | - | | - | | - | | - | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| FAMILY | MOUNTING | # LEDS | CCT | DRIVE CURRENT | DISTRIBUTION | VOLTAGE | COLOR | OPTIONS |
|---|---|---|---|---|---|---|---|---|
| **ASL** ASL Series | **A** Arm | **8L** 8 High brightness LEDs | **3K** 3000K, 70 CRI | **210** 2100mA | **2** IES TYPE II | **U** Universal | **BL** Black | **F** Fusing (voltage specified and determined by voltage field) |
| | **MAF** Mast Arm Fitter | **16L** 16 High brightness LEDs | **4K** 4000K, 70 CRI | | **3** IES TYPE III | **1** 120 | **DB** Dark Bronze | **7PR**[2] 7-pin ANSI twist-lock photocell receptacle |
| | | **24L** 24 High brightness LEDs | **5K** 5000K, 70 CRI | | **4** IES TYPE IV | **2** 208 | **GR** Gray | **RPA(X)** Round pole adapter (Replace X with 3, 4, 5 or 6 indicating pole diameter) |
| | | | | | **5** IES TYPE V | **3** 240 | **PS** Platinum Silver | **SCPW** Programmable motion sensor with dimming control (line voltage device not for use with 7PR receptacle option and external wireless control devices); A minimum of one SCP-REMOTE accessory remote control required for configuration; Wide lens with motion detection radius equal to 1.3 X luminaire mounting height (approx. distance) |
| | | | | | | **4** 277 | **WH** White | **TB** Terminal block |
| | | | | | | | **CC**[1] Custom Color | |

1 – Contact factory for minimum order quantities
2 – 7-pin ANSI C136.41—2013 receptacle for use with standard Twist-Lock® photo controls, shorting caps, and ANSI C136.41 external wireless control devices with and without motion/occupancy override

## *ACCESSORIES* - Order Separately

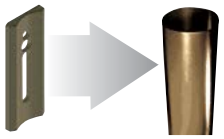
| Catalog Number | Description |
|---|---|
| **ASL-MAF** | Mast arm kit with wildlife shield for mounting on 2 3/8" OD arms |
| **RATA-XX**[1] | Single round arm tenon fits 2 3/8" OD, requires ASL-MAF accessory kit for stocked configurations |
| **SCP-REMOTE** | Remote control for SCPW option. Order at least one per project to program and control |
| **CR-RPA(X)-XX**[1] | Round pole adapters are available for 3, 4, 5, and 6 inch diameter round poles. Requires universal mounting block option. |
| **WB-CR-XX**[1] | Wall bracket. Requires universal mounting block option. |
| **PTL-1** | Photocontrol - twist-lock cell (120V) - Requires 7PR option |
| **PTL-8** | Photocontrol - twist-lock cell (120-277V) - Requires 7PR option |
| **PSC** | Shorting cap - twist-lock - Requires 7PR option |

1 - Replace XX with color choice, eg.: DB for Dark Bronze

**ASL-MAF**

**RATA**

**ASL-MAF INSTALLED**


**CR-RPA(X)**

**WB-CR-XX**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## PERFORMANCE DATA

| | | | | 5K (5000K nominal, 70 CRI) | | | | | 4K (4000K nominal, 70 CRI) | | | | | 3K (3000K nominal, 80 CRI) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| # OF LEDS | DRIVE CURRENT | SYSTEM WATTS | DIST. TYPE | LUMENS | LPW[1] | B | U | G | LUMENS | LPW[1] | B | U | G | LUMENS | LPW[1] | B | U | G |
| 8 | 2100 | 62 | 2 | 6304 | 102 | 1 | 0 | 1 | 5775 | 93 | 1 | 0 | 1 | 5068 | 82 | 1 | 0 | 1 |
| | | | 3 | 6139 | 99 | 1 | 0 | 1 | 5624 | 91 | 1 | 0 | 1 | 4935 | 80 | 1 | 0 | 1 |
| | | | 4 | 6285 | 101 | 1 | 0 | 1 | 5757 | 93 | 1 | 0 | 1 | 5149 | 83 | 1 | 0 | 1 |
| | | | 5 | 6194 | 100 | 3 | 0 | 1 | 5674 | 92 | 3 | 0 | 1 | 4979 | 80 | 3 | 0 | 1 |
| 16 | | 123 | 2 | 12502 | 102 | 2 | 0 | 2 | 11453 | 93 | 2 | 0 | 2 | 10441 | 85 | 2 | 0 | 2 |
| | | | 3 | 12175 | 99 | 2 | 0 | 2 | 11153 | 91 | 2 | 0 | 2 | 10168 | 83 | 2 | 0 | 2 |
| | | | 4 | 12463 | 101 | 2 | 0 | 2 | 11417 | 93 | 2 | 0 | 2 | 10409 | 85 | 2 | 0 | 2 |
| | | | 5 | 12283 | 100 | 4 | 0 | 2 | 11253 | 91 | 4 | 0 | 2 | 10259 | 83 | 4 | 0 | 2 |
| 24 | | 181 | 2 | 18343 | 101 | 3 | 0 | 3 | 16804 | 93 | 3 | 0 | 3 | 15437 | 85 | 3 | 0 | 3 |
| | | | 3 | 17863 | 99 | 3 | 0 | 3 | 16364 | 90 | 3 | 0 | 3 | 15033 | 83 | 3 | 0 | 3 |
| | | | 4 | 18287 | 101 | 2 | 0 | 2 | 16752 | 93 | 2 | 0 | 2 | 15389 | 85 | 2 | 0 | 2 |
| | | | 5 | 18022 | 100 | 4 | 0 | 2 | 16510 | 91 | 4 | 0 | 2 | 15167 | 84 | 4 | 0 | 2 |

1 - Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

### ELECTRICAL DATA

| # OF LEDS | DRIVE CURRENT (mA) | INPUT VOLTAGE (V) | SYSTEM POWER (w) | CURRENT (Amps) |
|---|---|---|---|---|
| 8 | 1@(2100mA) | 120 | 62 | 0.52 |
| | | 208 | 62 | 0.30 |
| | | 240 | 62 | 0.26 |
| | | 277 | 62 | 0.22 |
| 16 | | 120 | 123 | 1.03 |
| | | 208 | 123 | 0.60 |
| | | 240 | 123 | 0.52 |
| | | 277 | 123 | 0.45 |
| 24 | | 120 | 181 | 1.49 |
| | | 208 | 181 | 0.86 |
| | | 240 | 181 | 0.74 |
| | | 277 | 181 | 0.64 |

### PROJECTED LUMEN MAINTENANCE

| | OPERATING HOURS | | | | | |
|---|---|---|---|---|---|---|
| Ambient Temp. | 0 | 25,000 | TM-21-11[1] L90 36,000 | 50,000 | 100,000 | L70 (hours) |
| 25°C / 77°F | 1.00 | 0.93 | 0.90 | 0.86 | 0.75 | >125,000 |
| 40°C / 104°F | 0.99 | 0.90 | 0.86 | 0.81 | 0.67 | >88,000 |

1. Projected per IESNA TM-21-11 (* Cree XP-L, 2100mA, 105°C Ts, 6,000hrs)

### LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

| AMBIENT TEMPERATURE | | LUMEN MULTIPLIER |
|---|---|---|
| 0˚ C | 32˚ F | 1.06 |
| 10˚ C | 50˚ F | 1.03 |
| 20˚ C | 68˚ F | 1.01 |
| 25˚ C | 77˚ F | 1.00 |
| 30˚ C | 86˚ F | 0.99 |
| 40˚ C | 104˚ F | 0.97 |
| 50˚ C | 122˚ F | 0.94 |

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).


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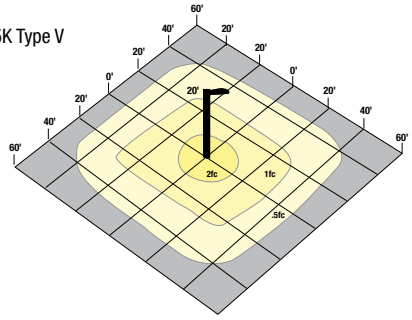
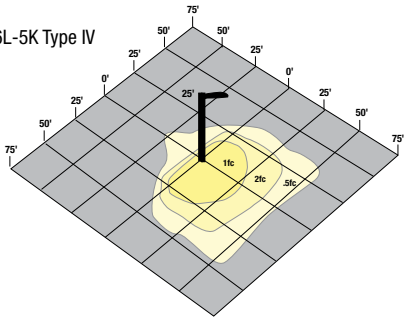
## ***PHOTOMETRICS*** For additional photometric information and IES downloads, visit our web site at www.hubbelloutdoor.com

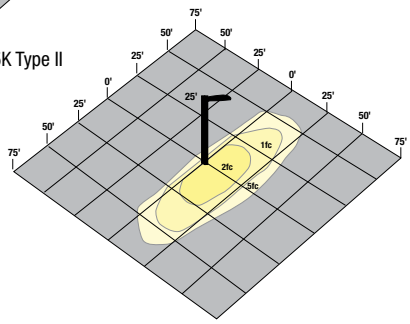
ASL-8L-5K Type V



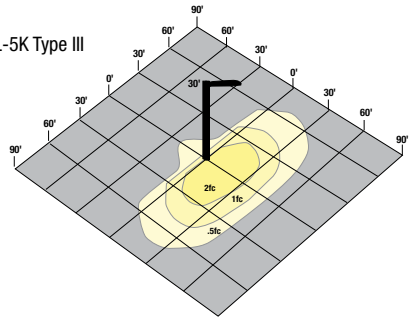

ASL-16L-5K Type IV




ASL-16L-5K Type II

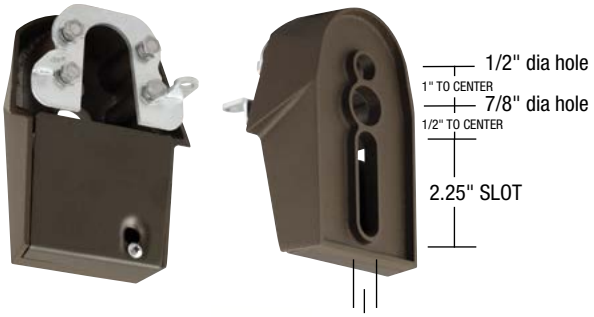


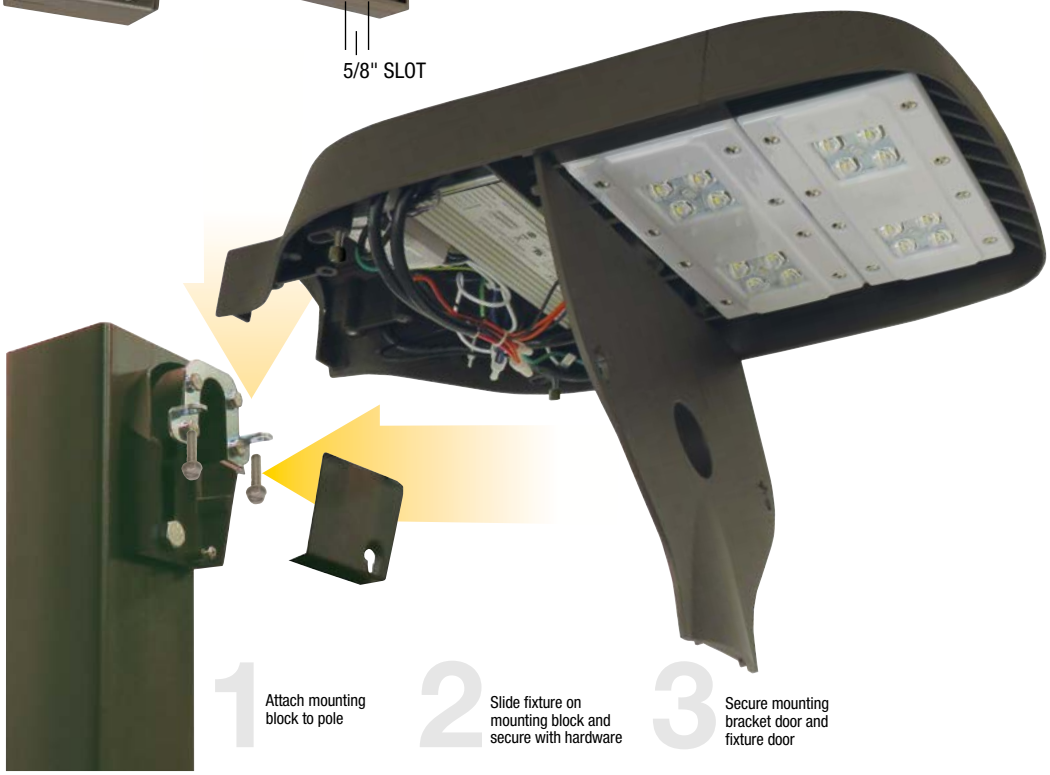

ASL-24L-5K Type III




### *MOUNTING BLOCK*

Fixture ships with universal mounting block for ease of installation. Compatible with #2 drill pattern.



1 Attach mounting block to pole

2 Slide fixture on mounting block and secure with hardware

3 Secure mounting bracket door and fixture door



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