## EALS Series <br> LED Outdoor Area Light

The EALS Area Light luminaire offers a wide range of optical patterns, color temperatures, lumen packages and mounting configurations to optimize area light applications, as well as provide versatility in lighting design within the same formfactor. They are ideal for commercial property site-lighting applications such as retail and commercial exteriors.

## Construction

```
Housing: Aluminum die cast enclosure.
    Integral heat sink for maximum heat transfer
    Lens: Impact resistant tempered glass
    Paint: Corrosion resistant polyester powder paint,
    minimum 2.0 mil thickness
    Standard = Black, Dark Bronze Gray, White
    (RAL & custom colors available)
    Optional = Coastal Finish
Weight: 27 lbs
```

Optical System

| Lumens: | $7,000-30,300$ |
| ---: | :--- |
| Photometry: | Type II, III, IV \& V |
| Efficacy: | $126-160$ LPW |
| CCT: | $3000 \mathrm{~K}, 4000 \mathrm{~K}, 5000 \mathrm{~K}$ |
| CRI: | $\geq 70$ |
| Upward Light Output |  |
| Ration (ULOR): |  |

## Electrical

| Input Voltage: | $120-277 \mathrm{~V}, 277-480 \mathrm{~V}$ \& $347-480 \mathrm{~V}$ |
| ---: | :--- | :--- |
| Input Frequency: | $50 / 60 \mathrm{~Hz}$ |
| Power Factor (PH): | $>90 \%$ at rated watts |
| Total Harmonic | $<20 \%$ at rated watts |
| Distortion (THD): |  |

## Surge Protection

| TYPICAL (120 STRIKES) |  |  |
| :---: | :---: | :---: |
| $6 \mathrm{kV} / 3 \mathrm{kA}{ }^{*}$ | $10 \mathrm{kV} / 5 \mathrm{kA}$ * | 20kV/10kA* |

*Per ANSI C136.2-2015

Lumen Maintenance

| Projected Lxx per IES TM-21-11 at $25^{\circ} \mathrm{C}$ |  |  |  |
| :---: | :---: | :---: | :---: |
| OPTICS | LXX(10K) @ HOURS |  |  |
|  | 25,000 HR | 50,000 HR | 60,000 HR |
| C2, C3, C4, C5, D2, D3, D4, D5 | L96 | L92 | L91 |
| F5, H2, H3, H4, H5 | L95 | L93 | L92 |
| F2, F3, F4, J3, J3, J4, J5 | L95 | L93 | L92 |
| K2, K3, K4, K5 | L95 | L93 | L92 |

Note: Projected Lxx based on LM80 (=10,000 hour testing). Accepted Industry tolerances apply to initial luminous flux and lumen maintenance measurements

Luminaire Ambient Temperature Factor

| AMBIENT TEMP ( ${ }^{\circ}$ C) | INITIAL FLUX FACTOR | AMBIENT TEMP ( ${ }^{\circ} \mathrm{C}$ ) | INITIAL FLUX FACTOR |
| :---: | :---: | :---: | :---: |
| 10 | 1.02 | 30 | 0.99 |
| 20 | 1.01 | 40 | 0.98 |
| 25 | 1.00 |  |  |

## Ratings

| Operating | $-40^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$ |
| ---: | :--- |
| Temperature: |  |
| Vibration: | 3G per ANSI C136.31-2010 |
| LM-79: | Testing in accordance with IESNA Standards |

## Controls

| Dimming: | Standard - 0-10V |
| :--- | :--- |
|  | Optional - DALI (Option U) |

Sensors: Photo Electric Sensors (PE) available LightGrid $+^{T M}$ and Daintree Compatible

## Warranty



## EALS Series

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Ordering Information

${ }^{6}$ Restricted Aiming Angle of 0-45 ${ }^{\circ}$
${ }^{7}$ Compatible with LightGrid+ ${ }^{T M}$ Wireless Control Nodes, Not Compatible with Motion Sensor Control
${ }^{8}$ Not available in $347 \mathrm{~V}, 480 \mathrm{~V}$ or $347-480 \mathrm{~V}$
${ }^{9}$ Only available with $\mathrm{F}, \mathrm{H}, \mathrm{J}, \mathrm{K}$ optics
${ }^{10}$ Recommended for installations within 750 feet from coast. Lead time varies, check with factory.
"Select 3000K CCT for IDA approved fixtures.
${ }^{12}$ For aimed left of right light distribution orientation, as assembled in manufacturing. Not applicable for Symmetric Distributions
${ }^{13}$ Required for Cx optical codes only, not available for other optic codes
${ }^{14}$ Not available with DALI
${ }^{15}$ DALI option not available with 347V, 480V, or 347-480V
${ }^{16}$ Not available with 20kV/10kA SPD

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| TYPE | OPTIC CODE | DISTRIBUTION | TYPICA L INITIAL LUMENS |  | TYPICAL SYSTEM WATTAGE | bug ratings |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 3000K | 4000 \& 5000K |
|  |  |  | 3000K | 4000K \& 5000K |  | 120-277 \& 347-480V | B-U-G | B-U-G |
| TYPE V | C5 | Symmetric Medium (SM) | 7300 | 7500 | 46 | B3-U0-G1 | B3-U0-G1 |
|  | D5 | Symmetric Medium (SM) | 9800 | 10000 | 64 | B3-U0-G1 | B3-U0-G1 |
|  | F5 | Symmetric Medium (SM) | 14700 | 15000 | 101 | B4-U0-G2 | B4-U0-G2 |
|  | H5 | Symmetric Medium (SM) | 19600 | 20000 | 140 | B4-U0-G2 | B4-U0-G2 |
|  | J5 | Symmetric Medium (SM) | 24500 | 25000 | 186 | B4-U0-G2 | B4-U0-G2 |
|  | K5 | Symmetric Medium (SM) | 29400 | 30000 | 239 | B5-U0-G3 | B5-U0-G3 |
|  | C5 | Symmetric Wide (SW) | 7300 | 7500 | 46 | B2-U0-G1 | B2-U0-G1 |
|  | D5 | Symmetric Wide (SW) | 9800 | 10100 | 64 | B3-U0-G1 | B3-U0-G1 |
|  | F5 | Symmetric Wide (SW) | 14700 | 15100 | 101 | B3-U0-G2 | B3-U0-G2 |
|  | H5 | Symmetric Wide (SW) | 19700 | 20200 | 140 | B4-U0-G2 | B4-U0-G2 |
|  | J5 | Symmetric Wide (SW) | 24600 | 25200 | 186 | B4-U0-G2 | B4-U0-G2 |
|  | K5 | Symmetric Wide (SW) | 29600 | 30300 | 239 | B5-U0-G2 | B5-U0-G2 |
|  | C5 | Symmetric High Angle (SH) | 7000 | 7200 | 46 | B3-U0-G1 | B3-U0-G1 |
|  | D5 | Symmetric High Angle (SH) | 9400 | 9600 | 64 | B3-U0-G2 | B3-U0-G2 |
|  | F5 | Symmetric High Angle (SH) | 14200 | 14500 | 101 | B4-U0-G2 | B4-U0-G2 |
|  | H5 | Symmetric High Angle (SH) | 18900 | 19300 | 140 | B4-U0-G2 | B4-U0-G2 |
|  | J5 | Symmetric High Angle (SH) | 23600 | 24100 | 186 | B5-U0-G3 | B5-U0-G3 |
|  | K5 | Symmetric High Angle (SH) | 28400 | 29000 | 239 | B5-U0-G3 | B5-U0-G3 |
| TYPE IV | C4 | Asymmetric Forward (AF) | 7300 | 7500 | 50 | B1-U0-G2 | B1-U0-G2 |
|  | D4 | Asymmetric Forward (AF) | 9800 | 10000 | 70 | B2-U0-G2 | B2-U0-G2 |
|  | F4 | Asymmetric Forward (AF) | 14700 | 15000 | 116 | B2-U0-G2 | B2-U0-G2 |
|  | H4 | Asymmetric Forward (AF) | 19600 | 20000 | 140 | B3-U0-G3 | B3-U0-G3 |
|  | J4 | Asymmetric Forward (AF) | 24500 | 25000 | 186 | B3-U0-G3 | B3-U0-G3 |
|  | K4 | Asymmetric Forward (AF) | 29400 | 30000 | 239 | B3-U0-G4 | B3-U0-G4 |
|  | C4 | Asymmetric High Angle (AH) | 7000 | 7200 | 50 | B2-U0-G2 | B2-U0-G2 |
|  | D4 | Asymmetric High Angle (AH) | 9400 | 9600 | 70 | B2-U0-G2 | B2-U0-G2 |
|  | F4 | Asymmetric High Angle (AH) | 14200 | 14500 | 116 | B3-U0-G3 | B3-U0-G3 |
|  | H4 | Asymmetric High Angle (AH) | 18900 | 19300 | 140 | B3-U0-G3 | B3-U0-G4 |
|  | J4 | Asymmetric High Angle (AH) | 23600 | 24100 | 186 | B3-U0-G4 | B3-U0-G4 |
|  | K4 | Asymmetric High Angle (AH) | 28400 | 29000 | 239 | B3-U0-G4 | B3-U0-G4 |
| TYPE III | C3 | Asymmetric Wide (AW) | 7300 | 7500 | 50 | B2-U0-G1 | B2-U0-G1 |
|  | D3 | Asymmetric Wide (AW) | 8900 | 10100 | 70 | B2-U0-G2 | B2-U0-G2 |
|  | F3 | Asymmetric Wide (AW) | 14700 | 15100 | 116 | B2-U0-G2 | B2-U0-G2 |
|  | H3 | Asymmetric Wide (AW) | 19800 | 20200 | 140 | B3-U0-G2 | B3-U0-G3 |
|  | J3 | Asymmetric Wide (AW) | 24600 | 25200 | 186 | B3-U0-G3 | B3-U0-G3 |
|  | K3 | Asymmetric Wide (AW) | 29600 | 30300 | 239 | B3-U0-G3 | B3-U0-G3 |
| TYPE II | C2 | Asymmetric Narrow/Auto (AN) | 7300 | 7500 | 50 | B3-U0-G2 | B2-U0-G2 |
|  | D2 | Asymmetric Narrow/Auto (AN) | 9800 | 10100 | 70 | B2-U0-G2 | B2-U0-G2 |
|  | F2 | Asymmetric Narrow/Auto (AN) | 14700 | 15100 | 116 | B2-U0-G2 | B3-U0-G3 |
|  | H2 | Asymmetric Narrow/Auto (AN) | 19700 | 20200 | 140 | B3-U0-G3 | B3-U0-G3 |
|  | J2 | Asymmetric Narrow/Auto (AN) | 24600 | 25200 | 186 | B3-U0-G3 | B3-U0-G3 |
|  | K2 | Asymmetric Narrow/Auto (AN) | 29600 | 30300 | 239 | B3-U0-G3 | B3-U0-G3 |

For additional information on Non-Shielded and Shielded EALS files, please refer to LED.com
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Grid Distance in Units of Mounting Height at $40^{\prime}$ Initial Footcandle Values at Grade

EALSO3


Grid Distance in Units of Mounting Height at $40^{\prime}$ Initial Footcandle Values at Grade EALS03
ASYMMETRIC FORWARD
(K4AF750)
30000 Lumens
5000 k
EALS03_K4AF750__-_-_.IES

Grid Distance in Units of Mounting Height at $40^{\prime}$ Initial Footcandle Values at Grade EALSO3
ASYMMETRIC HIGH ANGLE (K4AH750)
29000 Lumens 5000k
EALS03_K4AH750 $\qquad$ .IES


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

-_: Vertical plane through horizontal angle of maximum candlepower at $55^{\circ}$ _-: Vertical plane through horizontal angle $34^{\circ}$

-: Vertical plane through horizontal angle of maximum candlepower at $45^{\circ}$ .Vertical plane through horizontal angle $58^{\circ}$
_—: Vertical plane through horizontal angle of maximum candlepower at $20^{\circ}$ - Vertical plane through horizontal angle $58^{\circ}$

——: Vertical plane through horizontal angle of maximum candlepower at $45^{\circ}$ _-: Vertical plane through horizontal angle $70^{\circ}$
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--: Vertical plane through horizontal angle of maximum candlepower at $50^{\circ}$ -: Vertical plane through horizontal angle $69^{\circ}$

—: Vertical plane through horizontal angle of maximum candlepower at $45^{\circ}$ —: Vertical plane through horizontal angle $65^{\circ}$ at 40' Initial Footcandle Values at Grade


Grid Distance in Units of Mounting Height at $40^{\prime}$ Initial Footcandle Values at Grade


- : Vertical plane through horizontal angle of maximum candlepower at $50^{\circ}$ ——: Vertical plane through horizontal angle $55^{\circ}$


## H-Motion Sensing Option

- Recommended Mounting Height: 15-30’ (4.6-9.1m)
- For mounting heights exceeding 30 ft., pole mounted sensors are recommended
- Coverage Radius: 15-20' (4.6-6.1 m).
- Provides 270 degree of coverage (approx 90 is blocked by the pole)
- Default Settings:
- Output: Occupied - 100\%/Unoccupied - 50\%
- Integral PE Sensor.
- 5 minute post-occupancy time delay, 5 minute dimming ramp-down.
- Fixture power increase of $1 W$ expected with sensor use.



## H1/4 - Motion Sensing Option (WattStopper)

- Recommended Mounting Height: 15-30' (4.6-9.1m)
- For mounting heights exceeding 30 ft ., pole mounted sensors are recommended
- Coverage Radius: 15-20' (4.6-6.1 m).
- Provides 270 degree of coverage (approx 90 is blocked by the pole)
- Default Settings:
- Output Occupied - 100\% / Unoccupied - 10\%
- PE Sensor: Disabled
- Ramp/Fade: Disabled
- Adds < IW to fixture power rating
- Field programmable using FSIR-100 hand held programmer


## H2 - Motion Sensing Option (Daintree)

- Recommended Mounting Height: 15-30' (4.6-9.1m)
- For mounting heights exceeding 30 ft., pole mounted sensors are recommended
- Provides a coverage area radius for walking motion of 15-20 ft. (4.57-6.10m)
- Provides 270 degree of coverage (approx 90 is blocked by the pole)
- Default Settings:
- Output: Occupied - 100\%/Unoccupied - 50\%
- PE Sensor: None
- Ramp/Fade: 5 Minutes/5 Minutes
- Adds < 1W to fixture power rating
- Requires Daintree Enterprise and wide area control (WAC)


Sensing Pattern Area Fixture Up to 30 ft . Mounting Height


## EALS Series

## INTEGRAL SLIPFITTER: C1



## KNUCKLE SLIPFITTER: S1



TOP VIEW


## EALS Series

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## LED Outdoor Area Light

## UNIVERSAL ARM MOUNT: D1



## KNUCKLE WALL MOUNT: V1



- Approximate Net Weight: 26-28 lbs (11.79 kgs-12.97 kgs)
- Effective Projected Area (EPA):
- Knuckle Slipfitter S1, $45^{\circ}$ aim, EPA $=2.45$
- Knuckle w/Slipfitter S1, downward aim, EPA $=0.73$
- Universal Arm Mount D1, EPA $=0.54$
- Knuckle Wall Mount V1, $45^{\circ}$ aim, EPA $=0.77$ sq ft min and 1.43 sq ft max
- Integral Slipfitter C1, EPA $=0.63$

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## Mounting Arms for Slipfitter

## Order separately with Mounting Option C1 (Slipfitter)

SQUARE POLE MOUNTING ARM
3.5 TO 4.5 -inch ( 89 to 114 mm ) SQUARE (WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)


ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER SPA-EAMT10BLCK "Black"
SPA-EAMT10DKBZ "Dark Bronze"

ROUND POLE MOUNTING ARMDRILLING TEMPLATE
3.5 TO 4.5 -inch ( 89 to 114 mm ) OD (WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)


ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER RPA-EAMT10BLCK "Black"
RPA-EAMT10DKBZ "Dark Bronze"

SQUARE POLE MOUNTING DRILLING TEMPLATE


ROUND POLE MOUNTING DRILLING

## TEMPLATE



## Wall Mounting Bracket Adapter Plate

ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
WMB-EAMT06
*NOTE: For Wall Mounting, order luminaire with mounting arm: C1 = Slipfitter 2" Pipe (2.378 in. OD) supplied with leads.

Other mounting patterns are available for retrofit installations. Contact manufacturing for other available mounting patterns.

| SAP NUMBER | PART NUMBER | DESCRIPTION |
| :---: | :---: | :---: |
| 93123552 | WANSI - 277 | ANSI 136.41 Dimming PE Daintree Enable, 105-305V |
| 93123553 | WANSI-480 | ANSI 136.41 Dimming PE Daintree Enable, 312-530V |
| 93029237 | PED-MV-LED-7 | ANSI C136.41 Dimming PE, 120-277V |
| 93029238 | PED-347-LED-7 | ANSI C136.41 Dimming PE, 347V |
| 93029239 | PED-480-LED-7 | ANSI C136.41 Dimming PE, 480V |


| SAP NUMBER | PART NUMBER | DESCRIPTION |
| :---: | :---: | :---: |
| 28299 | PECOTL | Standard 120-277V |
| 28294 | PEC5TL | Standard 480V |
| 80436 | PECDTL | Standard 347V |
| 93147530 | PECHTL | Long Life Standard PE, 347-480V |
| 73251 | SCCL-PECTL | Shorting Cap |

