

# ARRLUX



**LED AREA LIGHT  
AURORA-L Series**



# AURORA-L Series

Certifications: UL/ CUL/DLC/ LM79/ SAA/ CB/ CE/ IK08/ RoHS

## Housing

- Die cast aluminum housing.
- Modular design allows for easy installation, replacement and maintenance.
- Slim & low profile design that minimizes wind load.
- IK08 rated.

## Finish

- Corrosion resistant polyester powder painted 100µm thickness.
- Meets a 1000-hour salt spray certification per ASTM B117/ ISO 9227:2012.
- Standard colors: Grey, Black, Bronze and White.
- Customized colors are available.



## Electrical/ Key Components/ Controls

- 450/600/750/900W
- 120-277VAC and 347-480VAC available.
- Surge protection to 20kV/10kA per ANSI/IEEE C62.41.2-2002 available.
- High quality LEDs, driver and components, e.g. MOLEX, WAGO connectors.



## LED & Optical Assembly

- Each PCB are mounted with a TVS (Transient Voltage Suppressors) to protect the LEDs from voltage transients induced by lightning and other transient voltage events.
- High-uniformity LED optics are constructed of durable optical polycarbonate that is impact and UV resistant.
- The metal plate provides double protection for the LED light engine and prolongs LED optics life.
- Over 20 optical lenses are available for virtually any application.
- Each LED module are 100% tested prior to assembly which is IP67 rated.

## Mounting

- Adjustable arm that mounts to a horizontal or vertical 2 3/8" (60mm) O.D. tenon. Tenon length must be a minimum of 4.72" (120mm).
- -60~+30 degree or -90~+0 degree of adjustment for leveling when horizontally mounted.



# TECHNICAL PARAMETERS

|                       |   |
|-----------------------|---|
| Power                 | 450-900W                                  |
| Input                 | 120-277 VAC or 220-240 VAC or 347-480 VAC |
| PF                    | >0.95                                     |
| THD                   | <20%                                      |
| L85                   | >60,000H                                  |
| Operating Temperature | -40°C ~ +50°C                             |
| Efficacy              | 120-140lm/W                               |
| ANSI CCT              | 3000K/4000K/5000K/5700K                   |
| Min CRI               | 70* or 80 or 85                           |

|                           |   |
|---------------------------|---|
| IP Rating                 | IP67  |
| SPD                       | Optional                                    |
| Certificate/Qualification | UL/ CUL/ DLC/ LM79/ SAA/ CB/ CE/ IK08/ RoHS |
| DALI                      | Optional                                    |
| 1-10V                     | Optional                                    |
| Photocell                 | /   |
| Smart Control             | /   |
| Optic (IESNA)             | Type I, Type II, Type III, Type IV, Type V  |
| Color Options             | Grey/Black/Bronze/White                     |

## ORDERING INFORMATION

| MODEL<br>(Nominal Power) |                 | MOUNTING | OPTIC LENS                     | CCT<br>(ANSI) | OPTIONAL COLOR              | LIGHTING CONTROL                      | ACCESSORY INFO                       |
|--------------------------|-----------------|----------|--------------------------------|---------------|-----------------------------|---------------------------------------|--------------------------------------|
| FLE450<br>450W           | FLF450*<br>450W | L        | T1S<br>Type I Short            | 30K<br>3045   | ★ BK<br>Black<br>(RAL:9011) | 00<br>Not required                    | Bird Spike                           |
| FLE600<br>600W           | FLF600*<br>600W |          | T2M<br>Type II Medium          | ±175K         |                             | 01<br>Photocell                       | 10KA/20KA Surge<br>Protection Device |
| FLE750<br>750W           | FLF750*<br>750W |          | T3M<br>Type III Medium         | ★ 40K<br>3985 | GR<br>Grey<br>(RAL:7004)    | 02<br>Motion Sensor                   | Back Light Shield                    |
| FLE900<br>900W           | FLF900*<br>900W |          | T3L<br>Type III Long           | ±275K         | BZ<br>Bronze<br>(RAL:8014)  | 03<br>Photocell<br>+<br>Motion Sensor | Safety Cable                         |
|                          |                 |          | T4S<br>Type IV Short           | ★ 50K<br>5028 | WH<br>White<br>(RAL:9010)   | 04<br>DALI                            |                                      |
|                          |                 |          | T4M<br>Type IV Medium          | ±283K         |                             | 05<br>1-10V dimming                   |                                      |
|                          |                 |          | T5U<br>Average beam angle 10°  | 5665          |                             |                                       |                                      |
|                          |                 |          | T5V<br>Average beam angle 25°  | ±355K         |                             |                                       |                                      |
|                          |                 |          | T5W<br>Average beam angle 40°  |               |                             |                                       |                                      |
|                          |                 |          | T5S<br>Average beam angle 60°  |               |                             |                                       |                                      |
|                          |                 |          | T5M<br>Average beam angle 90°  |               |                             |                                       |                                      |
|                          |                 |          | T5L<br>Average beam angle 120° |               |                             |                                       |                                      |
|                          |                 |          | T5X<br>Average beam angle 150° |               |                             |                                       |                                      |
|                          |                 |          | T5D<br>Diffuser                |               |                             |                                       |                                      |

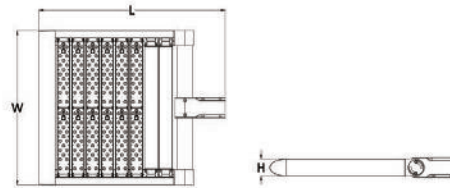
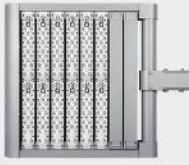
\* DALI & Motion sensor unavailable

★ Regularly stocked item

● Example 1: FLE900-L-T5S-50K-GR-00

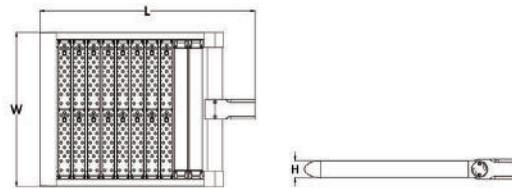
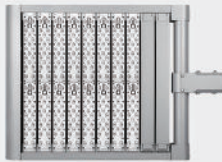
● Example 2: FLF750-L-T5U-50K-BK-05

# PRODUCTS



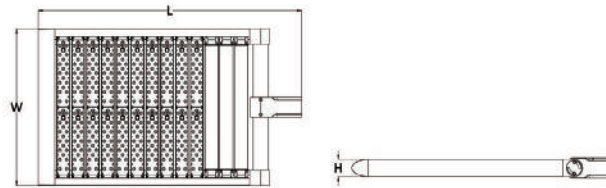
|              |                   |                    |   |
|--------------|-------------------|--------------------|---|
| Model        | FLE450-L/FLF450-L | Net Weight         | 18.39kg (40.54lbs)                            |
| LED Modules  | 6                 | Gross Weight       | 21.28kg (46.91lbs)                            |
| LEDs         | 216               | Product Dimensions | 766 x 634.5 x 70mm<br>30.16" x 24.98" x 2.76" |
| EPA (sq.ft.) | 0.67              | Carton Dimensions  | 833 x 730 x 170mm<br>32.8" x 28.74" x 6.69"   |

| Model No. | System Power | Voltage    | Drive Current | Luminous Flux |            | Efficacy(lm/W) |
|-----------|--------------|------------|---------------|---------------|------------|----------------|
|           |              |            |               | 3000K         | 4000/5000K |                |
| FLE450-L  | 485W         | 120-277VAC | 700mA         | 52380lm       | 58200lm    | 120            |
| FLF450-L  | 485W         | 347-480VAC | 700mA         | 52380lm       | 58200lm    | 120            |



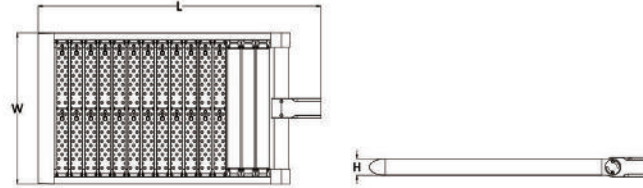
|              |                   |                    |   |
|--------------|-------------------|--------------------|---|
| Model        | FLE600-L/FLF600-L | Net Weight         | 22.0kg (48.50lbs)                             |
| LED Modules  | 8                 | Gross Weight       | 26.43kg (58.27lbs)                            |
| LEDs         | 288               | Product Dimensions | 885 x 634.5 x 70mm<br>34.84" x 24.98" x 2.76" |
| EPA (sq.ft.) | 0.735             | Carton Dimensions  | 953 x 730 x 170mm<br>37.52" x 28.74" x 6.69"  |

| Model No. | System Power | Voltage    | Drive Current | Luminous Flux |            | Efficacy(lm/W) |
|-----------|--------------|------------|---------------|---------------|------------|----------------|
|           |              |            |               | 3000K         | 4000/5000K |                |
| FLE600-L  | 645W         | 120-277VAC | 700mA         | 69660lm       | 77400lm    | 120            |
| FLF600-L  | 645W         | 347-480VAC | 700mA         | 69660lm       | 77400lm    | 120            |



|              |                   |                    |  |
|--------------|-------------------|--------------------|--|
| Model        | FLE750-L/FLF750-L | Net Weight         | 27.36kg (60.32lbs)                             |
| LED Modules  | 10                | Gross Weight       | 30.0kg (66.14lbs)                              |
| LEDs         | 360               | Product Dimensions | 1065 x 634.5 x 70mm<br>41.93" x 24.98" x 2.76" |
| EPA (sq.ft.) | 0.843             | Carton Dimensions  | 1133 x 730 x 170mm<br>44.61" x 28.74" x 6.69"  |

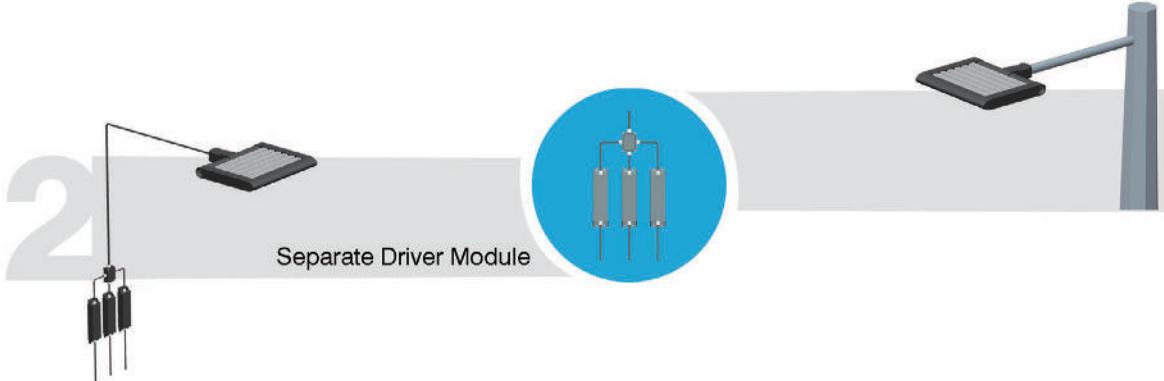
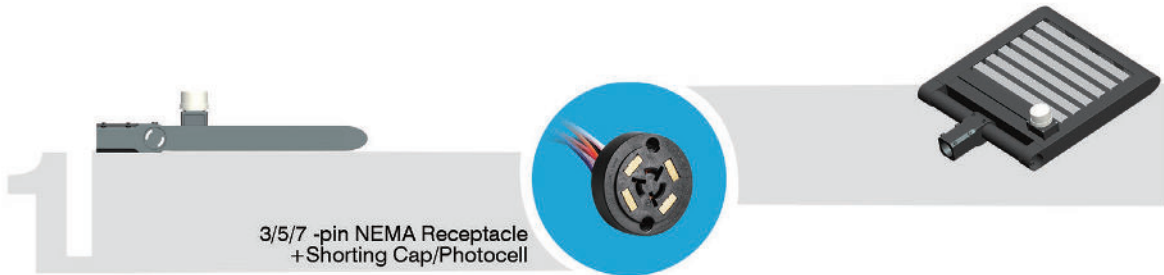
| Model No. | System Power | Voltage    | Drive Current | Luminous Flux |            | Efficacy(lm/W) |
|-----------|--------------|------------|---------------|---------------|------------|----------------|
|           |              |            |               | 3000K         | 4000/5000K |                |
| FLE750-L  | 802W         | 120-277VAC | 700mA         | 86616lm       | 96240lm    | 120            |
| FLF750-L  | 802W         | 347-480VAC | 700mA         | 86616lm       | 96240lm    | 120            |



|              |                   |                    |  |
|--------------|-------------------|--------------------|--|
| Model        | FLE900-L/FLF900-L | Net Weight         | 29.90kg (65.92lbs)                             |
| LED Modules  | 12                | Gross Weight       | 33.63kg (74.14lbs)                             |
| LEDs         | 432               | Product Dimensions | 1185 x 634.5 x 70mm<br>46.65" x 24.98" x 2.76" |
| EPA (sq.ft.) | 0.919             | Carton Dimensions  | 1253 x 730 x 170mm<br>49.33" x 28.74" x 6.69"  |

| Model No. | System Power | Voltage    | Drive Current | Luminous Flux |            | Efficacy(lm/W) |
|-----------|--------------|------------|---------------|---------------|------------|----------------|
|           |              |            |               | 3000K         | 4000/5000K |                |
| FLE900-L  | 964W         | 120-277VAC | 700mA         | 104112lm      | 115680lm   | 120            |
| FLF900-L  | 964W         | 347-480VAC | 700mA         | 104112lm      | 115680lm   | 120            |

# CUSTOMIZED SOLUTIONS

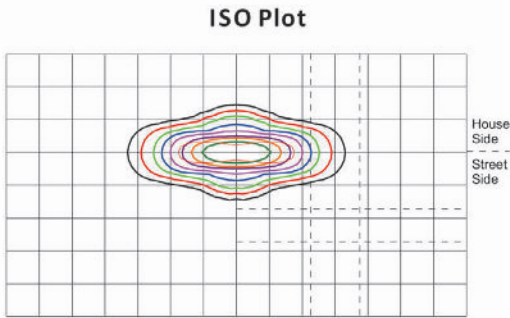


# PHOTOMETRICS

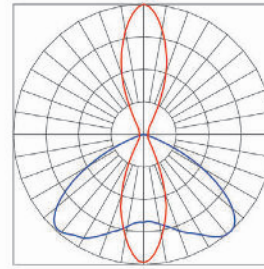
## T1S

Type I  
Short

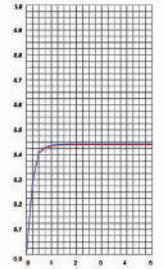
Typical use:  
Industrial  
Street/Roadside



## Polar Curve



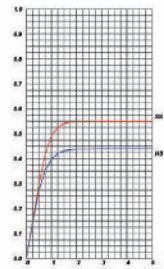
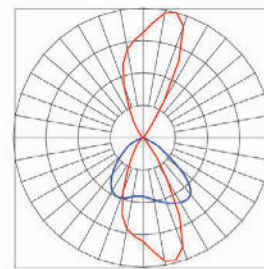
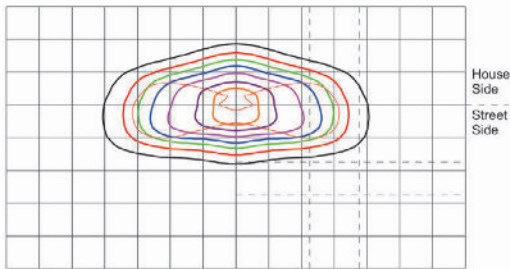
## CU Graph



## T2M

Type II  
Medium

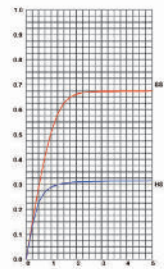
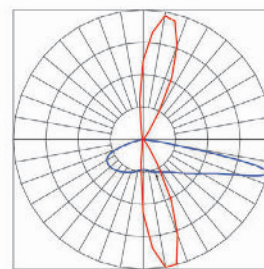
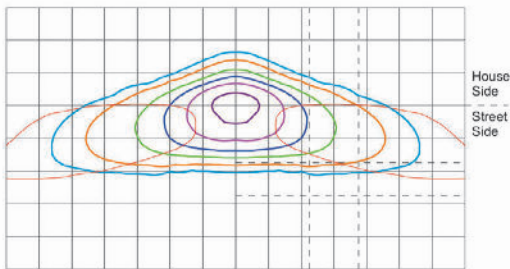
Typical use:  
Street/Roadside



## T3L

Type III  
Long

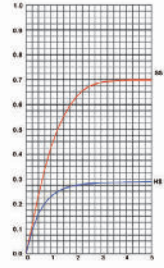
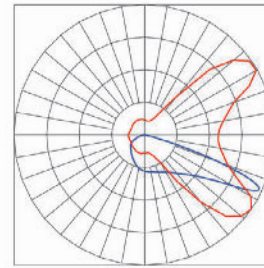
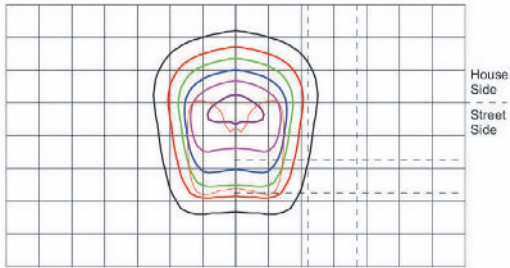
Typical use:  
Street/Roadside



## T4S

Type IV  
Short

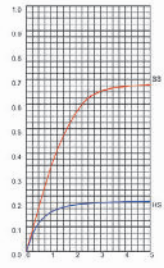
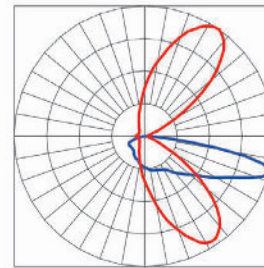
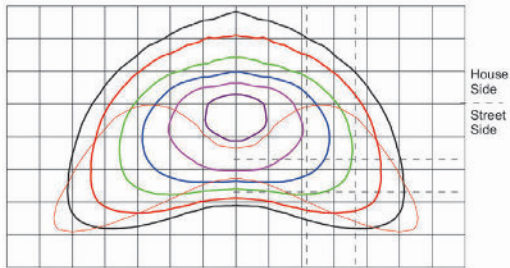
Typical use:  
Area/High mast



## T4M

Type IV  
Medium

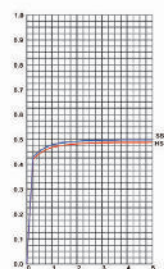
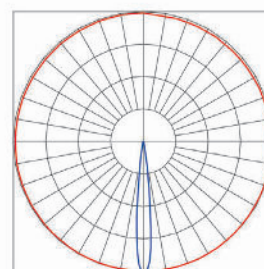
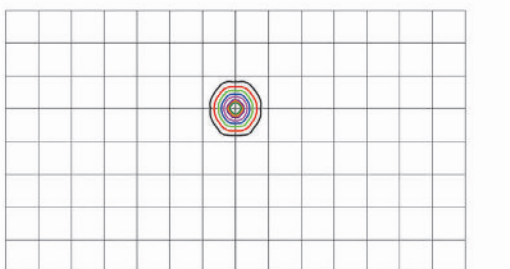
Typical use:  
Highway/Multi-Lane



## T5U

Average beam  
angle 10°

Typical use:  
Stadium

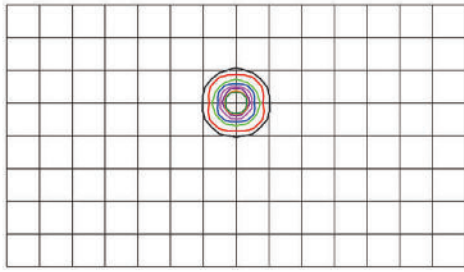


### ISO Plot

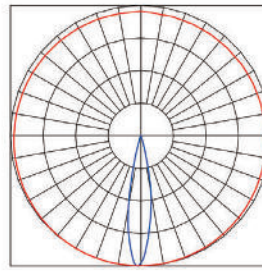
#### T5V

Average beam angle 25°

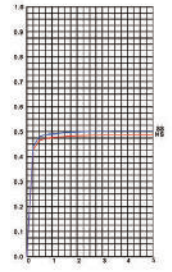
Typical use: Stadium



### Polar Curve



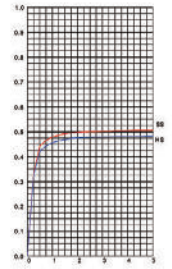
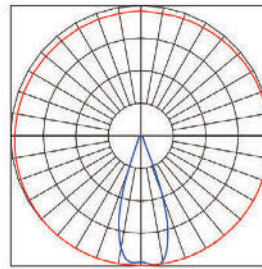
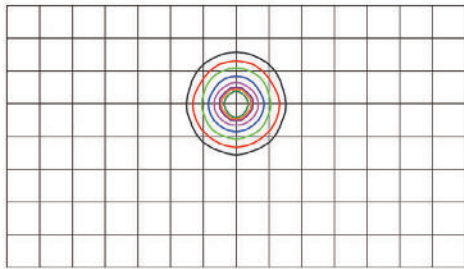
### CU Graph



#### T5W

Average beam angle 40°

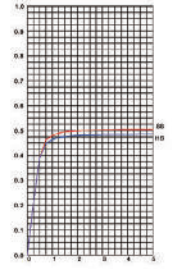
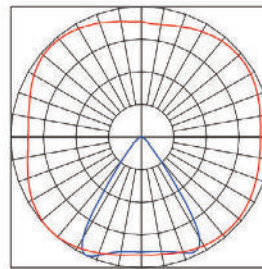
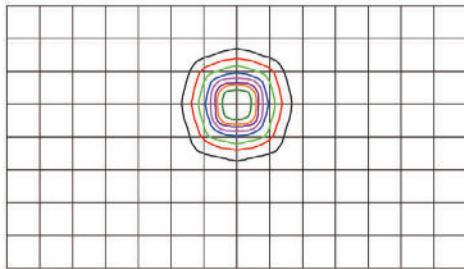
Typical use: Architectural



#### T5S

Average beam angle 60°

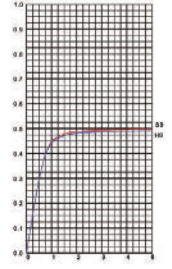
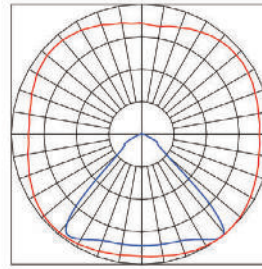
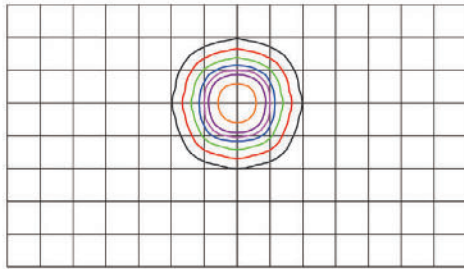
Typical use: Industrial



#### T5M

Average beam angle 90°

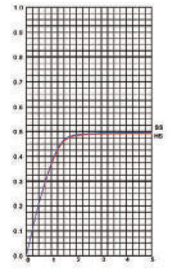
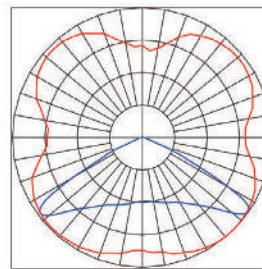
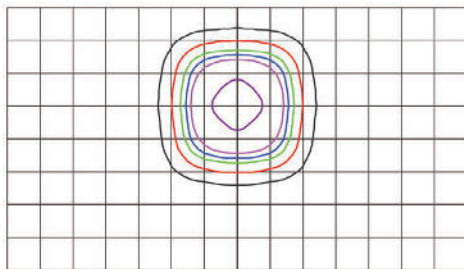
Typical use: Industrial



#### T5L

Average beam angle 120°

Typical use: Gas station



#### T5X

Average beam angle 150°

Typical use: Industrial Undercover carpark

