



# GENESYS

## OUTDOOR PRODUCTS

Outdoor area light



The GENESYS Series from Aeralux combines the desire for high efficacy and a distinguished look in an outdoor luminaire. The GENESYS Series features mounting methods and variety of light distribution patterns, allowing you to tailor your luminaire to your lighting needs.

Project: \_\_\_\_\_

Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

### OPERATING & ELECTRICAL

**Input voltage** 100-277V, 277-480V

**Power factor** 0.9

**Total harmonic distortion (THD)** <20%

**Dimming** 0-10V external dimming down to 10%

### PERFORMANCE

**Lumens per Watt** 135 LPW at 70CRI

**Power** 100, 150, 200, 240, 300W

**Distribution** T2, Type 3 (rotated left or right available), T4, T5

### MECHANICAL & HOUSING

**Housing** Aluminum die cast housing for superior heat dissipation, strength, and rigidity critical to long LED system life.

**Lens** Highly durable polycarbonate lens ensures high efficiency light output for a clean, evenly illuminated surface with minimal glare. High transmittance lens allowing for a smooth, diffused light pattern. Glass lens available

### Finish

Powder coat fade and abrasion resistant finish for the toughest outdoor conditions. Available in black, bronze, aluminum (RAL9006) finishes.

**Power Supply** Factory wired electronic LED driver

**LED Board** Discrete LED Chips

### APPLICATION CONDITION

**Ambient temperature range** -30 to 45°C

**Protection** Fixture and driver IP65 rated,

IK08 impact resistance

### COMPATIBLE MOUNTING

**Mounting** Direct, Slip fitter, yoke mounting

### WARRANTY

**System warranty** 5 years

**Lumen maintenance** Rated for 70% initial lumen output at 50,000 hours of operation, operated at 25°C ambient temperature; per guidelines published by the Illuminating Engineering Society (IES). (L70 at 50,000 hours)

### ORDERING GUIDE

EXAMPLE: AE-OD-GY-100UV-D-40-T2-A-BK

AE-OD-GY	-100	UV	-D	-40	-T2	-A	-BK
FIXTURE FAMILY	POWER	VOLTAGE	CONTROLS	CCT	DISTRIBUTION	MOUNTING TYPE	FINISH
AE-OD-GY Aeralux GENESYS Series Outdoor Area Light fixture	<b>-80</b> 80 Watts: 10,500 lumens	<b>UV</b> 100-277Vac input voltage range	<b>-D</b> 0-10V external dimming down to 10%	<b>-40</b> 4000K CCT	<b>-T2</b> Type 2	<b>-A</b> Slip Fitter	<b>-BK</b> Black finish
	<b>-100</b> 100 Watts: 13,500 lumens				<b>-T3N</b> Type 3 forward	<b>-B</b> Direct Bracket	<b>-BZ</b> Bronze finish
	<b>-150</b> 150 Watts: 20,250 lumens				<b>-T3L</b> Type 3 left		
	<b>-200</b> 200 Watts: 27,000 lumens	<b>HV</b> 277-480Vac input voltage range	<b>-P</b> Photocontrol daylight sensor		<b>-T3R</b> Type 3 right	<b>-C</b> Yoke Mount	<b>-AL</b> Aluminum (RAL9006) powder coat finish*
	<b>-300</b> 300 Watts: 40,500 lumens		<b>-M</b> Microwave controller *Only for 120-277V		<b>-T4</b> Type 4		
					<b>-T5</b> Type 5	<b>-D</b> No Mounting	

\*Contact for details on leadtime and availability

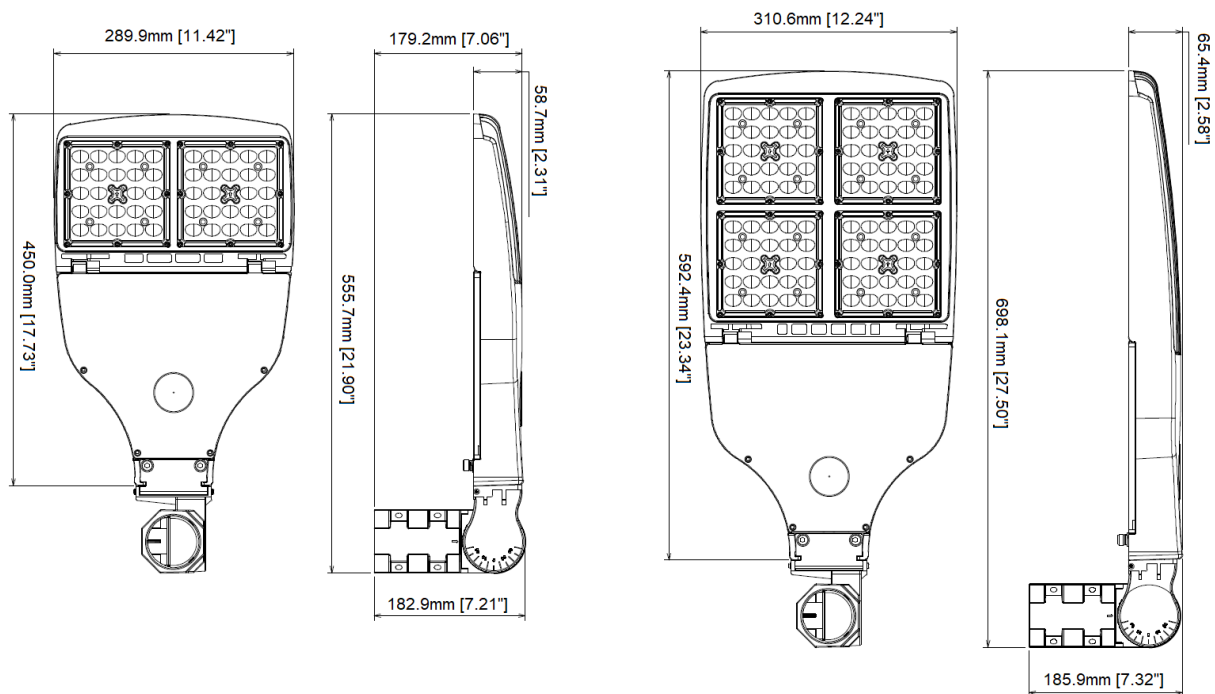
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IP 65

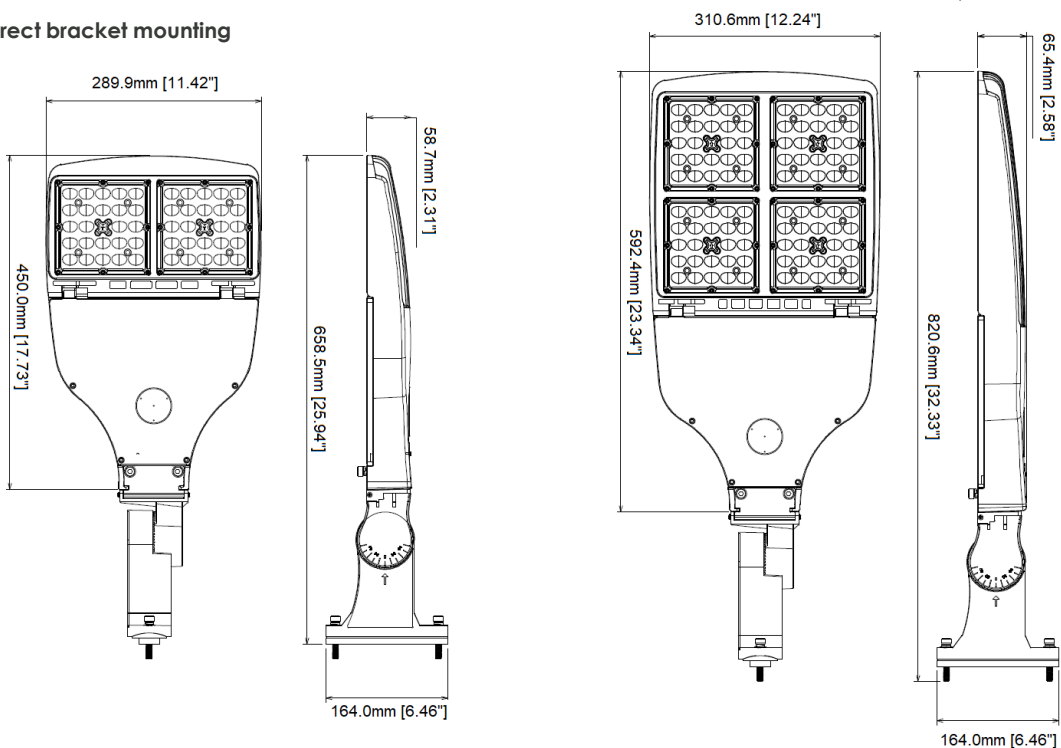


## PRODUCT DIMENSIONS

### Slip Fitter mounting

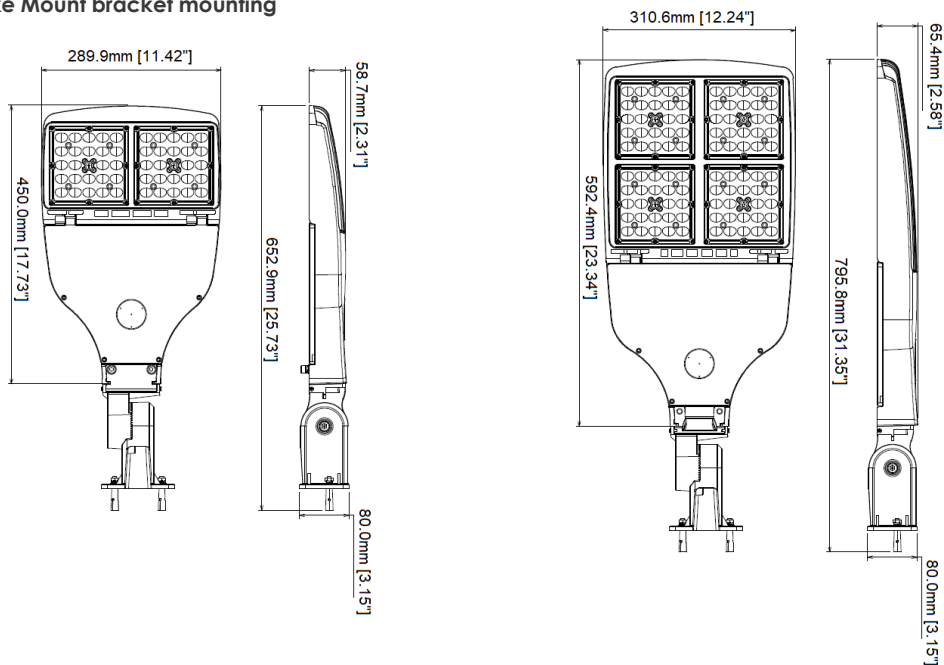


### Direct bracket mounting



## PRODUCT DIMENSIONS

### Yoke Mount bracket mounting



## WEIGHT INFORMATION WITH ACCESSORIES

POWER	ACCESSORIES	WEIGHT
-100W	SF	5.28Kg
	DI	5.61Kg
	YM	5.01Kg

POWER	ACCESSORIES	WEIGHT
-200W	SF	7.73Kg
	DI	8.05Kg
	YM	7.45Kg

POWER	ACCESSORIES	WEIGHT
-150W	SF	5.55Kg
	DI	5.87Kg
	YM	5.27Kg

POWER	ACCESSORIES	WEIGHT
-300W	SF	7.87Kg
	DI	8.19Kg
	YM	7.59Kg

## EPA (Effective Projected Area) WITH ACCESSORIES

POWER	ACCESSORIES	EPA
100W & 150W	SF	0.5034FT <sup>2</sup>
	DI	0.543FT <sup>2</sup>
	YM	0.459FT <sup>2</sup>

POWER	ACCESSORIES	EPA
200W & 300W	SF	0.626FT <sup>2</sup>
	DI	0.667FT <sup>2</sup>
	YM	0.585FT <sup>2</sup>

## ACCESSORIES

Ordered separately

### MOUNTING METHODS

AE-OD-RZ-SF-BK  
AE-OD-RZ-SF-BZ  
AE-OD-RZ-SF-AL

AE-OD-RZ-DI-BK  
AE-OD-RZ-DI-BZ  
AE-OD-RZ-DI-AL

AE-OD-RZ-YM-BK  
AE-OD-RZ-YM-BZ  
AE-OD-RZ-YM-AL

### CONTROLS

AE-OD-RZ-MIC-MS  
AE-OD-RZ-SB  
AE-OD-RZ-PC  
AE-OD-RZ-SC

Slip fitter black finish  
Slip fitter bronze finish  
Slip fitter AL finish

Direct mounting black finish  
Direct mounting bronze finish  
Direct mounting AL finish

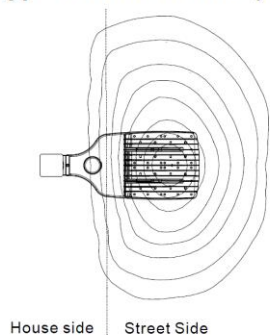
York Mount black finish  
York Mount bronze finish  
York Mount AL finish

Microwave motion sensor  
Socket base of photocell  
Photocell  
Shorting cap

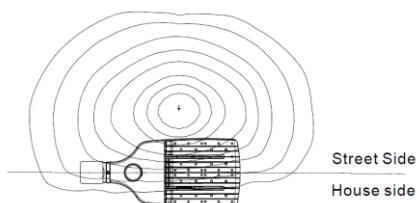
## DISTRIBUTION

Select from forward throw, left, or right rotated Type 3 distributions enabling you to adhere to strict light spillage regulations.

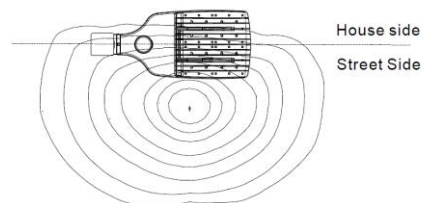
### Type 3 forward throw (T3N)



### Type 3 left rotated (T3L)



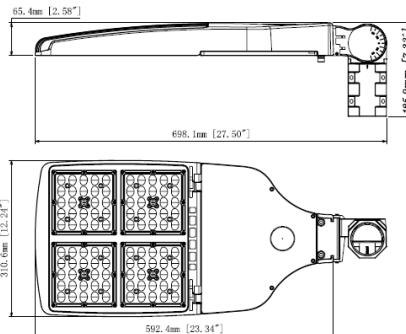
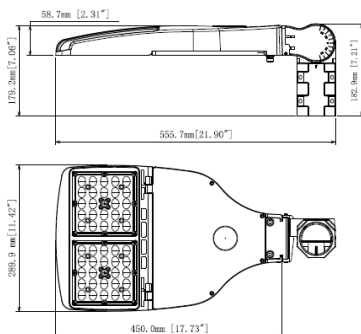
### Type 3 right rotated (T3R)



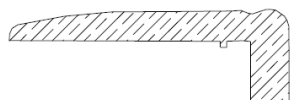
## EPA Information

80W-100W-150W

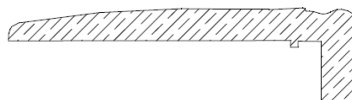
200W-240W-300W



Slip Fitter



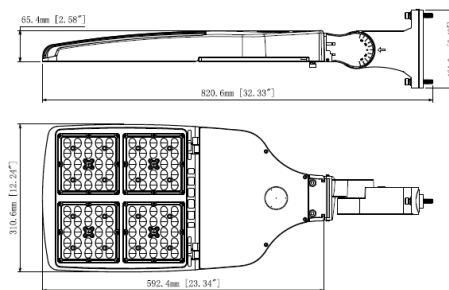
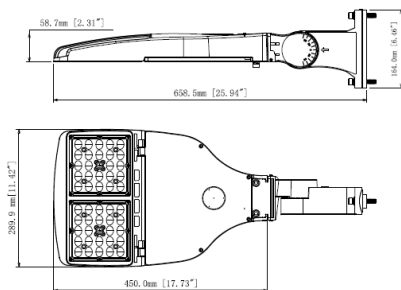
EPA=0.419537X1.2=0.5034



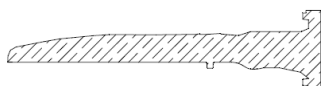
EPA=0.5219117X1.2=0.626

80W-100W-150W

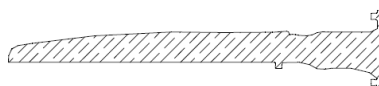
200W-240W-300W



Direct Bracket



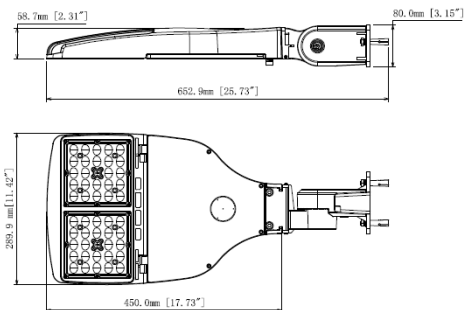
EPA=0.4521856X1.2=0.543



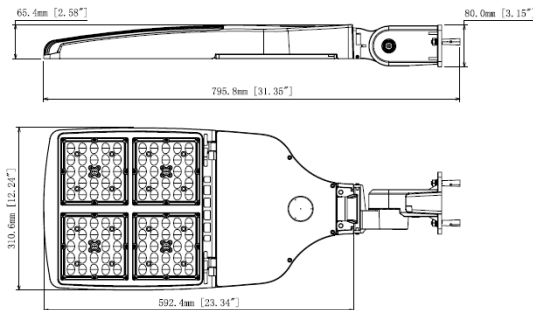
EPA=0.5553797X1.2=0.667

## EPA Information

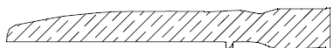
80W-100W-150W



200W-240W-300W



York Mount



$$\text{EPA}=0.3821229 \times 1.2=0.459$$



$$\text{EPA}=0.4871427 \times 1.2=0.585$$

## DLC MODELS

DLC Model	Product ID
AE-OD-GY-200[UV;HV]-[D;P;M]-50-T3	PLJ1J0IYWRBT
AE-OD-GY-100[UV;HV]-[D;P;M]-40-T3	PL9P6R4NGTBX
AE-OD-GY-300[UV;HV]-[D;P;M]-50-T3	PLHE2D8Q1GF2
AE-OD-GY-80[UV;HV]-[D;P;M]-50-T3	PLDTQSAS4R95
AE-OD-GY-240[UV;HV]-[D;P;M]-50-T3	PLA9WH43HQTV
AE-OD-GY-80[UV;HV]-[D;P;M]-40-T3	PL1J95WG6FIA
AE-OD-GY-240[UV;HV]-[D;P;M]-40-T3	PLWO16QCSTWB
AE-OD-GY-200[UV;HV]-[D;P;M]-40-T3	PLJ0WA2UUHKO
AE-OD-GY-300[UV;HV]-[D;P;M]-40-T3	PLSVFIIVR3EN
AE-OD-GY-150[UV;HV]-[D;P;M]-40-T3	PLTFGL13VO0J

## B-U-G RATING

POWER	DISTRIBUTION	B-U-G
100W	T3	B3-U3-G3
150W		B3-U3-G3
200W		B4-U3-G4
300W		B4-U3-G4

## LUMEN ESTIMATE

Lumen output varies based on CCT and CRI. An estimate of lumen output of the various CCT/CRI combinations, use correction factors as per table below:

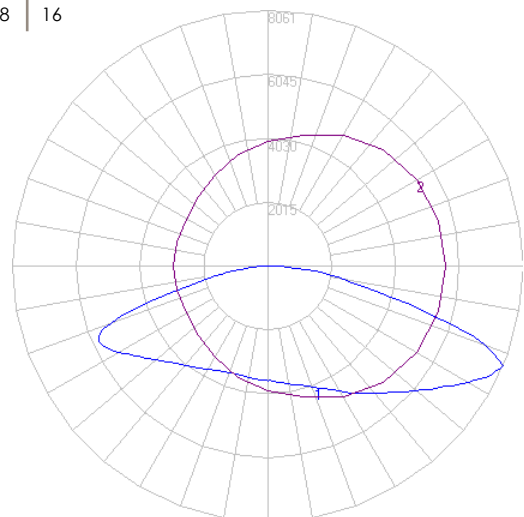
Lumen estimate adjustment factors				
CCT	2700K	3000K	3500K	4000K
NORMAL (70CRI)	0.91	0.94	0.97	1

## PHOTOMETRIC DATA

AE-OD-GYSM-150L-D-40-T3-X-XX

Coefficients of utilization											
Ceiling	80%				70%		50%		30%		0%
Wall	70%	50%	30%	10%	50%	10%	50%	10%	50%	10%	0
RCR	Zonal Cavity Method – Effective floor reflectance = 20%										
Room Cavity Ratio	119	119	119	119	116	116	111	111	102	102	100
	107	101	96	91	99	90	94	87	86	81	79
	95	85	77	70	83	70	80	68	73	65	62
	85	73	63	56	71	55	68	54	62	52	50
	77	63	53	45	62	45	59	44	54	43	40
	70	55	45	37	54	37	52	37	48	36	33
	64	49	39	32	48	31	46	31	42	30	28
	59	44	34	27	43	27	41	27	38	26	24
	54	39	30	24	39	23	37	23	35	23	21
	50	36	27	21	35	21	34	21	32	20	18
10	47	33	24	18	32	18	31	18	29	18	16

Zonal lumen			
Zone	Lumens	Zone	Lumens
0-10	350.9	90-100	9.9
10-20	1090.78	100-110	8.13
20-30	1911.24	110-120	8.42
30-40	2754.56	120-130	7.78
40-50	3532.09	130-140	6.79
50-60	4109.74	140-150	5.21
60-70	4054.71	150-160	3.45
70-80	2379.34	160-170	2.27
80-90	507.54	170-180	0.91





### ENERGY-EFFICIENT

High efficacy output of up to 135 lumen per watt at 70 CRI will enhance your outdoor project space while reducing energy expenditure.

### ACCESSORIES

Select microwave motion sensor, or even photocell cap enhancing your fixture's abilities.



### PREMIUM MATERIALS AND DESIGN

Constructed from aluminum die-cast for superior structural strength, coupled with a heat sink designed directly into the fixture's housing allows for enhanced thermal heat dissipation using no additional mechanical components.

### MULTIPLE MOUNTING METHODS

Choose from direct bracket, slip fitter, or yoke mounting each with an adjustable angle.



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