

TETRA LINEAR SURFACE

E9W165-

base number

Color

Finish

Lens

Temperature

Options

Options

- 1.To build a product code in our configurator select the specify button on the base model # product page
2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Tetra

Subseries: Tetra Linear

Brand: Platek

Division: Exterior

Mounting Type: Surface

Mounting Location: Wall

Subcategory: Wallwash

PHYSICAL

Shape: Rectangle

Length (mm): 904

Length (in): 35 9/16

Width (mm): 65

Width (in): 2 9/16

Height (mm): 65

Depth (mm): 136

Height (in): 2 9/16

Depth (in): 5 3/8

Light Distribution: Adjustable / Direct

Weight (kg): 4

Weight (lbs): 8.8

Screws: A4 stainless steel

Diffuser: Clear tempered glass

Gasket: Gore-Tex valve to prevent condensation inside the fitting.

Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ

Fixture Material: Extruded Aluminum

ELECTRICAL

Lamp Type: LED

Input Wattage (W): 21

Total Output Wattage (W): 18

Dimming: Non-Dimmable

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Voltage - 120Vac

Driver Class: Class 2

Input Voltage (V): 120 - 277

Output Voltage (V): 24

Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) Remote: Non-dimming 120/277Vac

LED

Number of LEDs: 18

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 1500 / 1560

Nominal Lumen (lm): 2520 / 2610

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: 12 / 40 / Elliptical

Adjustability: Tilt ±45°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP65

IK Rating: IK07

Bug Rating: B2 U1 G0

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Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com.  
In a constant effort to supply the best product, we reserve the right to change specifications or materials without notice. The most recent specification sheets are found at zaneen.com

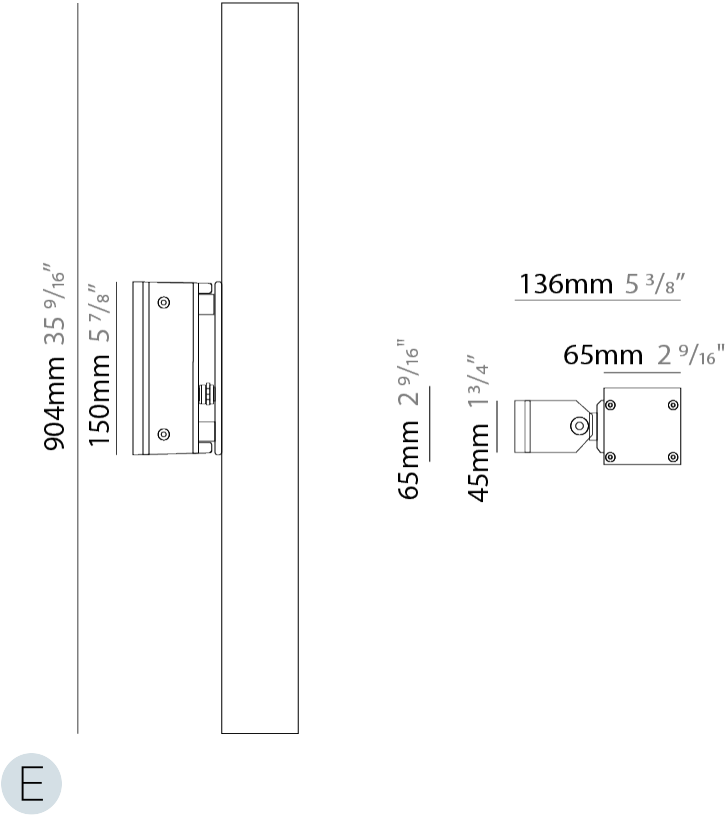
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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| PROJECT   |
| TYPE      |
| SPECIFIER |
| QUANTITY  |
| DATE      |



TETRA LINEAR SURFACE

E9W177-

base number      Color      Finish      Lens  
Temperature      Options      Options

- 1.To build a product code in our configurator select the specify button on the base model # product page
- 2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Tetra  
Subseries: Tetra Linear  
Brand: Platek  
Division: Exterior  
Mounting Type: Surface  
Mounting Location: Wall  
Subcategory: Wallwash

PHYSICAL

Shape: Rectangle  
Length (mm): 904  
Length (in): 35 9/16  
Width (mm): 65  
Width (in): 2 9/16  
Height (mm): 65  
Depth (mm): 136  
Height (in): 2 9/16  
Depth (in): 5 3/8  
Light Distribution: Adjustable / Direct  
Weight (kg): 5.8  
Weight (lbs): 12.8  
Screws: A4 stainless steel  
Diffuser: Clear tempered glass  
Gasket: Gore-Tex valve to prevent condensation inside the fitting.  
Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ  
Fixture Material: Extruded Aluminum

ELECTRICAL

Lamp Type: LED  
Input Wattage (W): 47  
Total Output Wattage (W): 36  
Dimming: Non-Dimmable  
Driver Included: Yes  
Driver Location: Integrated  
Driver Type: Constant Current - Universal  
Driver Class: Class 2  
Input Voltage (V): 120 - 277  
Constant Current (MA): 350

LED

Number of LEDs: 18  
Color Temperature (°K): 3000 / 4000  
Max. Delivered Lumen (lm): 3000 / 3120  
Nominal Lumen (lm): 5040 / 5220  
CRI: >80 CRI  
Lamp Life (hrs): 60000

OPTICAL

Optic°: 12 / 40 / Elliptical  
Adjustability: Tilt ±45°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards  
IP rating: IP65  
IK Rating: IK07  
Bug Rating: B3 U1 G1

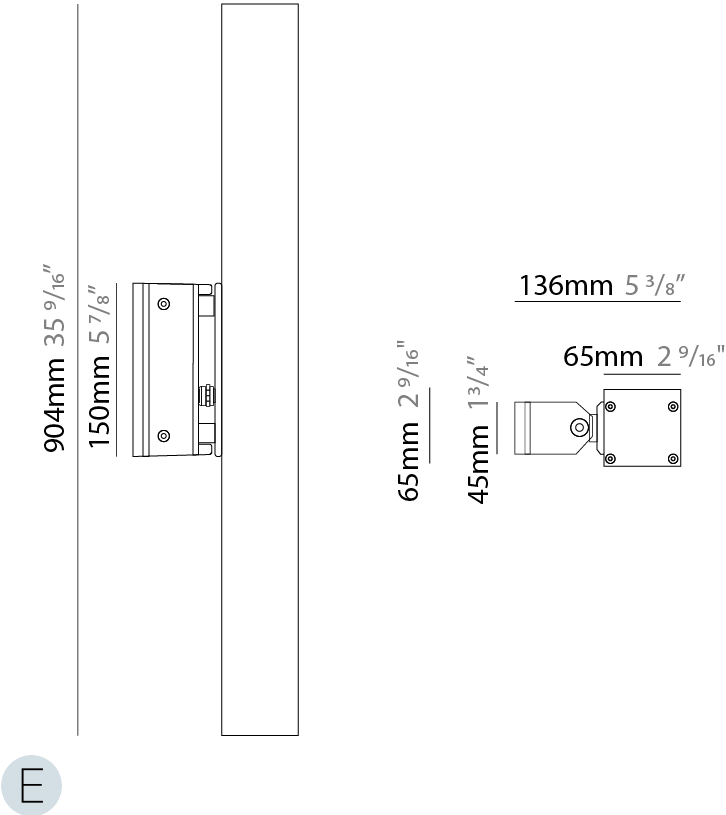
PROJECT

TYPE

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QUANTITY

DATE



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| PROJECT   |
| TYPE      |
| SPECIFIER |
| QUANTITY  |
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TETRA LINEAR SURFACE

E9W189-

base number

Color

Finish

Lens

Temperature

Options

Options

1. To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Tetra

Subseries: Tetra Linear

Brand: Platek

Division: Exterior

Mounting Type: Surface

Mounting Location: Wall

Subcategory: Wallwash

PHYSICAL

Shape: Rectangle

Length (mm): 358

Length (in): 14 1⁄8

Width (mm): 65

Width (in): 2 9⁄16

Height (mm): 65

Depth (mm): 136

Height (in): 2 9⁄16

Depth (in): 5 3⁄8

Light Distribution: Adjustable / Direct

Weight (kg): 2.6

Weight (lbs): 5.73

Screws: A4 stainless steel

Diffuser: Clear tempered glass

Gasket: Gore-Tex valve to prevent condensation inside the fitting.

Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ

Fixture Material: Extruded Aluminum

ELECTRICAL

Lamp Type: LED

Input Wattage (W): 7.3

Total Output Wattage (W): 6

Dimming: Non-Dimmable

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Voltage - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Output Voltage (V): 24

LED

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 490 / 520

Nominal Lumen (lm): 840 / 870

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: 12 / 40 / Elliptical

Adjustability: Tilt ±45°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP65

IK Rating: IK07

Bug Rating: B1 U1 G0

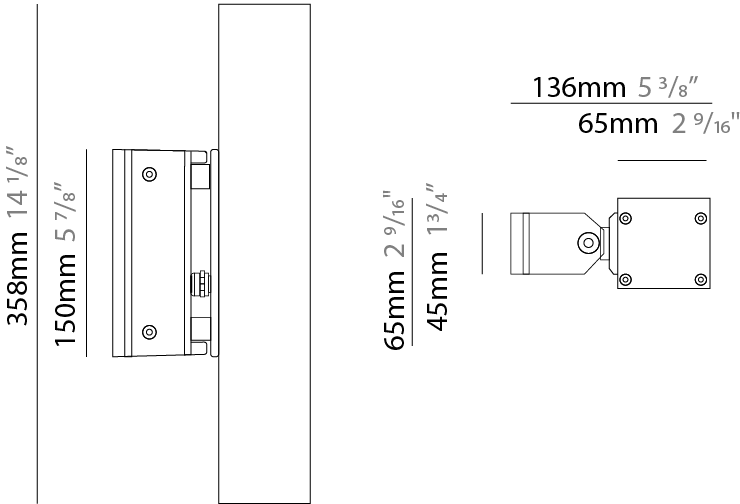
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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| PROJECT   |
| TYPE      |
| SPECIFIER |
| QUANTITY  |
| DATE      |



TETRA LINEAR SURFACE

E9W201-

base number

Color

Finish

Lens

Temperature

Options

Options

- 1.To build a product code in our configurator select the specify button on the base model # product page
2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Tetra

Subseries: Tetra Linear

Brand: Platek

Division: Exterior

Mounting Type: Surface

Mounting Location: Wall

Subcategory: Wallwash

PHYSICAL

Shape: Rectangle

Length (mm): 358

Length (in): 14 1⁄8

Width (mm): 65

Width (in): 2 9⁄16

Height (mm): 65

Depth (mm): 136

Height (in): 2 9⁄16

Depth (in): 5 3⁄8

Light Distribution: Adjustable / Direct

Weight (kg): 2.6

Weight (lbs): 5.73

Screws: A4 stainless steel

Diffuser: Clear tempered glass

Gasket: Gore-Tex valve to prevent condensation inside the fitting.

Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ

Fixture Material: Extruded Aluminum

ELECTRICAL

Lamp Type: LED

Input Wattage (W): 13.5

Total Output Wattage (W): 12

Dimming: Non-Dimmable

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 350

LED

Number of LEDs: 12

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 860 / 1020

Nominal Lumen (lm): 1680 / 1740

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: 12 / 40 / Elliptical

Adjustability: Tilt ±45°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP65

IK Rating: IK07

Bug Rating: B1 U1 G0

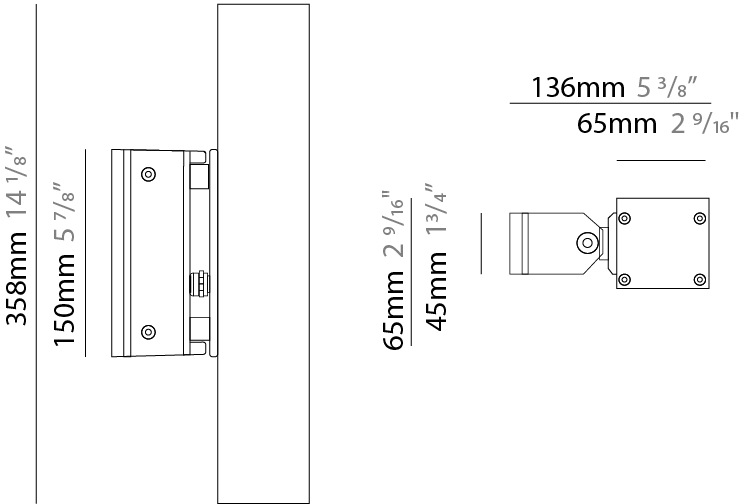
PROJECT

TYPE

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QUANTITY

DATE



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| PROJECT   |
| TYPE      |
| SPECIFIER |
| QUANTITY  |
| DATE      |





TETRA CORNICHE SURFACE

E9W215-

base number

Color

Finish

Lens

Temperature

Options

Options

1. To build a product code in our configurator select the specify button on the base model # product page
2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Tetra

Subseries: Tetra Corniche

Brand: Platek

Division: Exterior

Mounting Type: Surface

Mounting Location: Wall

Subcategory: Wallwash

PHYSICAL

Shape: Rectangle

Length (mm): 904

Length (in): 35 7/16

Width (mm): 65

Width (in): 2 9/16

Height (mm): 73

Height (in): 2 7/8

Light Distribution: Adjustable / Direct

Weight (kg): 4

Weight (lbs): 8.8

Screws: A4 stainless steel

Diffuser: Clear tempered glass

Gasket: Gore-Tex valve to prevent condensation inside the fitting.

Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ

Fixture Material: Extruded Aluminum

ELECTRICAL

Lamp Type: LED

Input Wattage (W): 21

Total Output Wattage (W): 18

Dimming: Non-Dimmable

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Voltage - 120Vac

Driver Class: Class 2

Input Voltage (V): 120 - 277

Output Voltage (V): 24

Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) Remote: Non-dimming 120/277Vac

LED

Number of LEDs: 18

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 1300 / 1600

Nominal Lumen (lm): 2520 / 2610

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: 13 / 26 / 40 / Elliptical

Pitch: 0-15° rotation angle

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP66

IK Rating: IK07

Bug Rating: B2 U1 G0

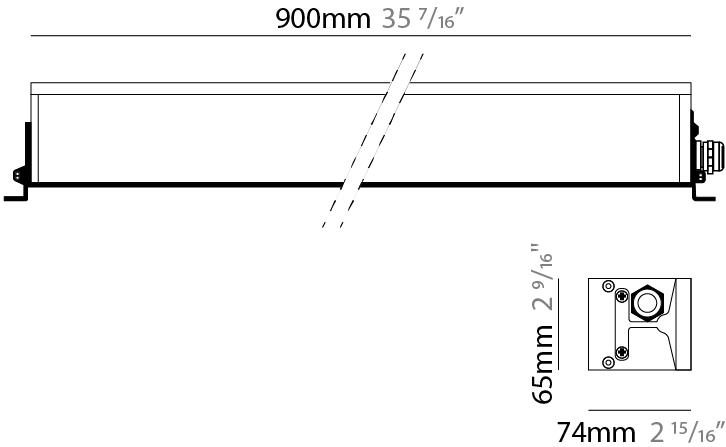
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



TETRA CORNICHE SURFACE

E9W215-

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| PROJECT   |
| TYPE      |
| SPECIFIER |
| QUANTITY  |
| DATE      |



TETRA CORNICHE SURFACE

E9W231-

base number

Color

Finish

Lens

Temperature

Options

Options

- 1.To build a product code in our configurator select the specify button on the base model # product page
2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Tetra

Subseries: Tetra Corniche

Brand: Platek

Division: Exterior

Mounting Type: Surface

Mounting Location: Wall

Subcategory: Wallwash

PHYSICAL

Shape: Rectangle

Length (mm): 904

Length (in): 35 7/16

Height (mm): 73

Depth (mm): 65

Height (in): 2 7/8

Depth (in): 2 3/16

Light Distribution: Adjustable / Direct

Weight (kg): 5.2

Weight (lbs): 11.4

Screws: A4 stainless steel

Diffuser: Clear tempered glass

Gasket: Gore-Tex valve to prevent condensation inside the fitting.

Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ

Fixture Material: Extruded Aluminum

ELECTRICAL

Lamp Type: LED

Input Wattage (W): 47

Total Output Wattage (W): 36

Dimming: Non-Dimmable

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 350

LED

Number of LEDs: 36

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 2590 / 3220

Nominal Lumen (lm): 5040 / 5220

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: 13 / 26 / 40 / Elliptical

Pitch: 0-15° rotation angle

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP66

IK Rating: IK07

Bug Rating: B3 U1 G1

PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



TETRA CORNICHE SURFACE

E9W231-

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| PROJECT   |
| TYPE      |
| SPECIFIER |
| QUANTITY  |
| DATE      |



TETRA CORNICHE SURFACE

E9W263-

base number

Color

Finish

Lens

Temperature

Options

Options

- 1.To build a product code in our configurator select the specify button on the base model # product page
2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Tetra

Subseries: Tetra Corniche

Brand: Platek

Division: Exterior

Mounting Type: Surface

Mounting Location: Wall

Subcategory: Wallwash

PHYSICAL

Shape: Rectangle

Length (mm): 358

Length (in): 14 7⁄8

Height (mm): 73

Depth (mm): 65

Height (in): 2 7⁄8

Depth (in): 2 3⁄16

Light Distribution: Adjustable / Direct

Weight (kg): 2.3

Weight (lbs): 5.1

Screws: A4 stainless steel

Diffuser: Clear tempered glass

Gasket: Gore-Tex valve to prevent condensation inside the fitting.

Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ

Fixture Material: Extruded Aluminum

ELECTRICAL

Lamp Type: LED

Input Wattage (W): 13.5

Total Output Wattage (W): 12

Dimming: Non-Dimmable

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 350

LED

Number of LEDs: 12

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 860 - 1070

Nominal Lumen (lm): 1680 / 1740

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: 13 / 26 / 40 / Elliptical

Pitch: 0-15° rotation angle

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP66

IK Rating: IK07

Bug Rating: B1 U1 G0

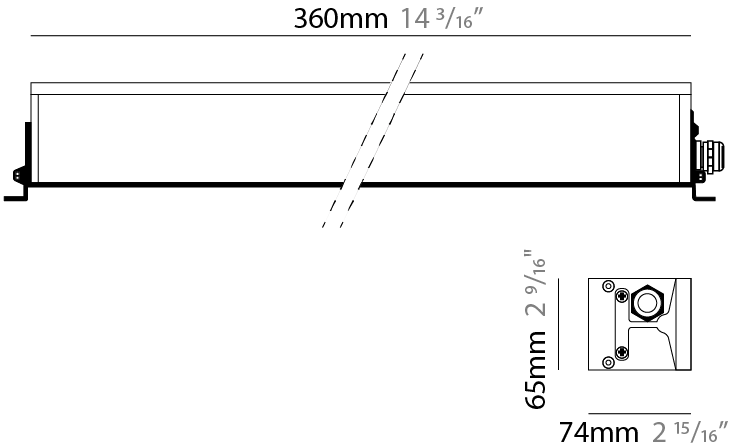
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



TETRA CORNICHE SURFACE

E9W263-

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| PROJECT   |
| TYPE      |
| SPECIFIER |
| QUANTITY  |
| DATE      |



TETRA APPLIQUE SURFACE

E9W301-

base number

Color

Finish

Lens

Temperature

Options

Options

1. To build a product code in our configurator select the specify button on the base model # product page
2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Tetra

Subseries: Tetra Applique

Brand: Platek

Division: Exterior

Mounting Type: Surface

Mounting Location: Wall

Subcategory: Wall Effect

PHYSICAL

Shape: Rectangle

Length (mm): 36

Length (in): 1 7⁄16

Height (mm): 210

Depth (mm): 135

Height (in): 8 1⁄4

Depth (in): 5 5⁄16

Light Distribution: Direct

Weight (kg): 2

Weight (lbs): 4.4

Screws: A4 stainless steel

Diffuser: Clear tempered glass

Fixture Finish: [BLK](#) / [WHI](#) / [GRY](#) / [COR](#) / [ANT](#) / [BRZ](#)

Fixture Material: Extruded Aluminum

ELECTRICAL

Lamp Type: LED

Input Wattage (W): 3.9

Total Output Wattage (W): 3

Dimming: Non-Dimmable

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - 120Vac

Driver Class: Class 2

Input Voltage (V): 120

Constant Current (MA): 350

LED

Color Temperature (°K): [3000](#) / [4000](#)

Max. Delivered Lumen (lm): 290 - 385

Nominal Lumen (lm): 420 / 435

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: [Single Emission](#)

Beam Angle: 13 / 44

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP65

IK Rating: IK07

Bug Rating: B1 U0 G0

PROJECT

TYPE

SPECIFIER

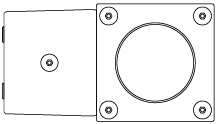
QUANTITY

DATE



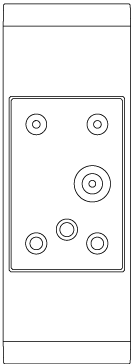
135mm 5 5⁄16"

36mm 1 7⁄16"

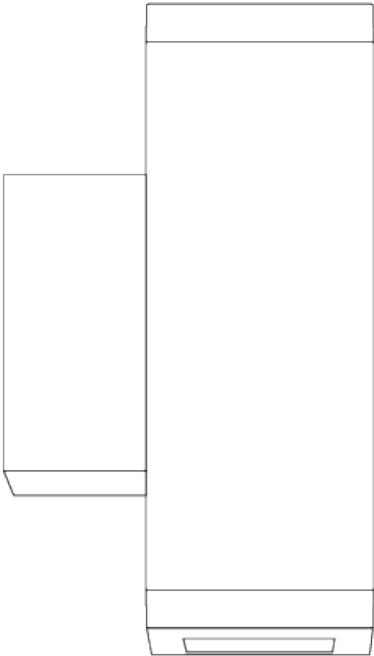


210mm 8 1⁄4"

100mm 3 15⁄16"



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| PROJECT   |
| TYPE      |
| SPECIFIER |
| QUANTITY  |
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TETRA APPLIQUE SURFACE

E9W570-

base number

Color

Finish

Lens

Temperature

Options

Options

- 1.To build a product code in our configurator select the specify button on the base model # product page
2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Tetra

Subseries: Tetra Applique

Brand: Platek

Division: Exterior

Mounting Type: Surface

Mounting Location: Wall

Subcategory: Wall Effect

PHYSICAL

Shape: Rectangle

Length (mm): 36

Length (in): 1 7⁄16

Width (mm): 36

Width (in): 1 7⁄16

Height (mm): 210

Height (in): 8 1⁄4

Extension (mm): 135

Extension (in): 5 5⁄16

Light Distribution: Direct / Indirect

Weight (kg): 2.2

Weight (lbs): 4.8

Screws: A4 stainless steel

Diffuser: Clear tempered glass

Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ

Fixture Material: Extruded Aluminum

ELECTRICAL

Lamp Type: LED

Input Wattage (W): 6.9

Total Output Wattage (W): 6

Dimming: Non-Dimmable

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - 120Vac

Input Voltage (V): 120

Constant Current (MA): 350

LED

Number of LEDs: 6

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 740 / 770

Nominal Lumen (lm): 840 / 870

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: Double Emission

Beam Angle: 2x12 / 2x44 / 12-44

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP65

IK Rating: IK07

Bug Rating: B1 U3 G0

PROJECT

TYPE

SPECIFIER

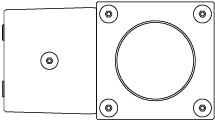
QUANTITY

DATE



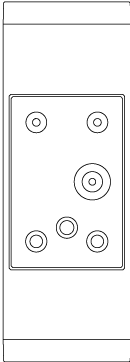
135mm 5 5⁄16"

36mm 1 7⁄16"



210mm 8 1⁄4"

100mm 3 15⁄16"

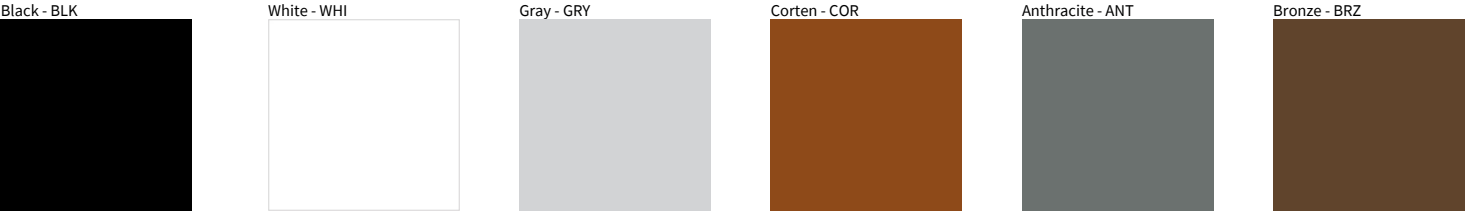


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Fixture Finish



**Digital:** Not all screens are calibrated the same, and therefore, colors will appear differently between screens.  
**Physical:** When texture is involved, there will be variations in color, character and tone within a product series and between product families.



### LEGEND

|  |   |  |  |  |  |
|--|---|--|--|--|--|
|  | floor-mounted   |  | pivotal  |  | special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+                    |
|  | wall and ceiling: recessed and surface mounted            |  | rotating   |  | warm dim / natural dimming LED   |
|  | ceiling-mounted and wall-mounted                          |  | illuminate tilted  |  | rechargeable battery powered   |
|  | wall-mounted  |  | color of suspension cable                                    |  | fixture with natural vivid LED (upon request)  |
|  | omni-directional light distribution                       |  | length of suspension cable                                   |  | color rendering index  |
|  | direct light distribution                                 |  | reflector degree selection                                   |  | color temperature  |
|  | direct/indirect light distribution                        |  | super spot   |  | lumen (luminous flux)  |
|  | indirect light distribution                               |  | lens   |  | efficacy (lumens per watt)   |
|  | asymmetric light distribution                             |  | lens pack  |  | Unified Glare Rating (UGR) range from 5-40   |
|  | aura light distribution                                   |  | shine ring   |  | marine grade (AISI 316 stainless steel)  |
|  | round wall or ceiling cut-out                             |  | integrated shine ring with diffuser                          |  | walk on  |
|  | square wall or ceiling cut-out                            |  | free individual colors 01-29                                 |  | drive on   |
|  | the supplied jig specifies the cutout dimensions          |  | individual colors: 00 (free of charge), 01-25 (extra charge) |  | Dark Sky Compliance  |
|  | minimum distance (meters) lamp - object                   |  | luminaire part to be colored (F1)                            |  | Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor) |
|  | recessed depth  |  | luminaire part to be colored (F2)                            |  | lamp protected against explosion   |
|  | ceiling thickness in mm                                   |  | luminaire part to be colored (F3)                            |  | blown glass using traditional methods by master glass blower                                   |
|  | ceiling thickness selection                               |  | luminaire part to be colored (F4)                            |  | acoustic material  |
|  | dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim) |  | luminaire part to be colored (F5)                            |  | protection class I, protection insulation  |
|  | included or excluded LED driver/transformer/control gear  |  | color of 3-circuit adaptor                                   |  | protection class II, protection insulation   |
|  | separately switchable                                     |  | indirect diffuser  |  | ETL Certified to UL and CSA Standards  |
|  | sensor  |  | direct diffuser  |  | UL Certified to UL and CSA Standards   |
|  | remote control  |  | ball-proof (upon request)                                    |  | CSA Certified to UL and CSA Standards  |
|  | available upon request                                    |  | accessory  |  | Certified for North American Standards   |

### IP RATING

|  |  |
|--|--|
|  | protected against ingress of solid bodies greater than 12.5mm (finger)   |
|  | protected against ingress of solid bodies greater than 2.5mm<br>protected against sprays of water up to 60 degrees from the vertical (rain)      |
|  | protected against ingress of solid bodies greater than 1mm (wire)<br>no protection against the ingress of moisture                               |
|  | protected against ingress of solid bodies greater than 1mm (wire)<br>protected against sprays of water up to 60 degrees from the vertical (rain) |
|  | protected against ingress of solid bodies greater than 1mm (wire)<br>protected against water splashed from all directions                        |
|  | protected against limited ingress of dust (wet rooms/covered outdoor areas)<br>protected against water splashed from all directions              |
|  | protected against ingress of dust<br>protected against jets of water   |
|  | protected against ingress of dust<br>protected against powerful jets of water or heavy seas  |
|  | protected against ingress of dust<br>protected against immersion of water between 15cm - 1m for 30 minutes                                       |
|  | protected against ingress of dust<br>protected against immersion of water under pressure for long periods  |

### IK RATING

|  |   |
|--|---|
|  | protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm above the surface)  |
|  | protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)   |
|  | protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface) |
|  | protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)  |
|  | protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)  |
|  | protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)    |
|  | protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)     |
|  | protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)     |
|  | protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)    |
|  | protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)    |